

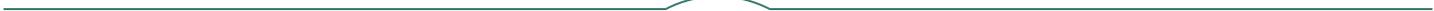
Appendices

Part 3—Recommended Strategies and Projects



Projects included in the appendices or within the content of this report are meant to provide examples of potential ways to address the strategies identified in the report and were submitted to the planning consortiums as part of the public outreach efforts by the consortium. These projects are in no way prioritized or guaranteed to receive funding through Phase II Implementation Funding of the Cleaner, Greener Communities Program. Projects not listed in the appendices section or content of the plan will have equal opportunity to submit an application for funding through Phase II. Regardless of being listed in the plan, a Consolidated Funding Application must be submitted in order to be considered for funding in Phase II. All projects must address the qualifications and eligibility requirements as listed in the Cleaner, Greener Communities Phase II solicitation notice.

APPENDIX E: EVALUATION PROCESS



EVALUATION PROCESS

For representation in matrix format, the following symbols were used to conduct a qualitative assessment of all Broad Strategies and Specific Projects. This will give the highest ranking to those ideas with the most positive characteristics:

	positive impact or high feasibility/ low cost/ high GHG reduction potential
	neutral or no impact or medium feasibility/ cost/ GHG reduction potential
	negative impact or low feasibility/ high cost/ low GHG reduction potential

EVALUATION CRITERIA

- **Benefits multiple subject areas**
 1. Energy
 2. Transportation
 3. Land Use & Livable Communities
 4. Materials/Waste Management
 5. Water Management
 6. Economic Development
 7. Agriculture & Forestry
 8. Climate Change Adaptation
 9. Governance
 10. GHG Emissions - GHG reduction potential

	Benefits 7-10 subject areas
	Benefits 4-6 subject areas
	Benefits 1-3 subject areas

- **Benefits multiple Capitals**

1. Human – public health/quality of life
2. Social – education/arts/culture
3. Natural
4. Built/Manufactured - infrastructure
5. Financial

	Benefits all 5 Capitals
	Benefits 3-4 Capitals
	Benefits 0-2 Capitals or diminishes any one Capital

- **Benefits multiple communities** – directly benefits or has potential to be replicated in communities in more than one county within the region or beyond the region/across REDC boundaries

1. Genesee
2. Livingston
3. Monroe
4. Ontario
5. Orleans
6. Seneca
7. Wayne
8. Wyoming
9. Yates

	Benefits communities in 4 or more counties or provides benefits beyond the region/across REDC boundaries
	Benefits communities in 2 to 3 counties
	Benefits communities in only 1 county

- **Implementation feasibility** – include consideration of timeframe, availability of technology and support/partnerships

	Short implementation timeframe (0-9 yrs); technology currently available and in use; established support network
	Implementation timeframe (10-19 yrs); technology in R&D phase; support framework currently being developed but not formalized
	Long implementation timeframe (20+ yrs); technology currently unavailable; no established support framework or partnerships

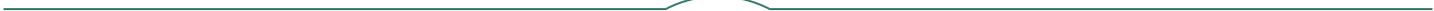
- **Consistent with planning efforts** – consistent with or identified in regional and local planning efforts

	Consistent with 2 or more regional or local planning efforts/plans
	Consistent with 1 regional or local planning effort/plan
	Conflicts with a goal or strategy in a regional or local planning effort/plan

- **Financial feasibility** – consideration of order of magnitude and life cycle costs, potential to leverage other resources, consideration of immediacy of benefit

	Low/medium order of magnitude and life cycle cost; High potential to leverage other funding sources – list; significant benefit early in strategy/project life cycle
	High order of magnitude and life cycle costs but high potential to leverage other funding sources – list; Low/medium order of magnitude and life cycle costs but low potential to leverage other funding sources Benefits are distributed evenly across the life of strategy/project
	High order of magnitude and life cycle cost; low potential to leverage other funding sources; benefit is delayed or ramps up over life of strategy/project

APPENDIX F: SUBJECT AREA STRATEGIES



Energy Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)				Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Develop, produce, and employ alternative energy (bio-energy, waste to energy, etc.)										●	●	●	●	●	◐	Subject Areas Benefited: All; Capitals Benefited: All; Potentially benefits all communities; Short implementation timeframe, technology currently available and in use, established support network; Consistent with Planning Efforts: Yes Financial Feasibility: high order of magnitude cost with high potential to leverage other funding sources
	Develop Greater Market Use & Interest in Bio-Fuels		All	X	X	X	GFLRPC		Bio-Fuel Production Tax Credit; Heavy Duty Alternative Fuel and Advanced Vehicle Purchase Vouchers; Bio-Fuel Station Initiative Program; Alternative Fuel Vehicle Program; Alternative Fuel Tax Incentive & rate Reduction							
	Promote rewards & incentives for generating and using Bio-Fuels		All 9 Counties	X	X	X	NYS Dept of Taxation and Finance; NYSERDA;									
	Increase availability and geographic coverage of alternative public fueling stations using Electricity, Hydrogen, Bio-Fuel, CNG, Ethanol, LNG or Propane		All	X	X	X	NYS Dept of Taxation and Finance; NYSERDA;									Communities with active fueling stations as of February 2013 include: East Rochester, Canandaigua, Webster, Rochester, Macedon, West Seneca, Pittsford, Spencerport, Fairport, Rush, Geneva, Penn Yan.
	Move towards a transportation system that does not use fossil fuels		All			X		Protection of health, environment and quality of life.								
	Identify funding for and encourage implementation of projects that use food waste to produce energy															
	Support research and development, deployment of pilot projects to validate technology and eventual commercialization of new alternative energy technology															
	Educate the public and municipal officials on the benefits of renewable energy generation and address the potential negative impacts		All	X	X	X	REDC									
	Develop and promote the adoption of local policies that accommodate the development of on-site and community alternative and renewable energy generation		All	X	X	X	NYS Public Service Commission									
	Encourage counties, municipalities and local districts to conduct an inventory of potential alternative and renewable production and prioritize projects for implementation		All	X	X	X										

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	Rural College Bio-Energy Hubs	Provide grants to study the feasibility of creating energy hubs at local colleges. Sources of energy could include manure wastes, bio-wastes and other waste or organic materials. The primary use of electrical energy and thermal energy would be for the colleges. Excess electrical energy could be sold to the utility. Thermal energy would be used as the colleges. Research into the use of bio-energy could enhance classes. Renewable energy options for the colleges could also be reviewed for feasibility. This is a strategy that applies to at least two sectors - Colleges - Educational and Agricultural - Farms.	All	X			Local colleges could be the lead. Tie in with research projects and student projects.	Farms would get rid of manure wastes; generate thermal and electrical energy with bio-gas burning; provide energy to colleges; provide hands on working projects for college research and students; return fertilizer fluid to farms for their use; decide on share of utility savings that can be shared with farmers.								
	Vitale 'Sustainable' Park - Alternative Energy Additions - Study Phase	Funding for consulting services to study the feasibility of alternative energy additions at Vitale Park in the Town of Livonia. This project could serve as a model for other municipalities interesting in curbing energy costs, reducing their carbon footprint, and having clean energy solutions at municipal parks, which will help inspire residents to make similar choices at the residential and business levels. Money is needed to fund a study to look at the options for adding alternative energy generators at this location including wind (given it's at the north end of a lake with brisk breezes), solar, and other methods that would be viable for producing energy that would be utilized to light and power the park uses. The feasibility study needs to identify how the project would be funded, implemented and maintained.	Livingston but replicatable	X												
	Vitale 'Sustainable' Park - Alternative Energy Additions - Implementation Phase	Seed funding for implementation of alternative energy additions at Vitale Park in the Town of Livonia. This project could serve as a model for other municipalities interesting in curbing energy costs, reducing their carbon footprint, and having clean energy solutions at municipal parks, which will help inspire residents to make similar choices at the residential and business levels. Money is needed to assist with establishing alternative energy generators at this location including wind (given it's at the north end of a lake with brisk breezes), solar, and other methods that would be viable for producing energy that would be utilized to light and power the park uses.	Livingston but replicatable	X												
Promote energy conservation and efficiency by developing educational programs, increasing participation in available state and federal incentive programs, and by adopting local and regional policies			All	X	X	X	NYSERDA, NYS DEC, US DOE, US EPA	Energy Smart Programs, Energy Efficiency Conservation Block Grant, Climate Smart Communities, Energy Star Programs	●	●	●	●	●	●		Subject Areas Benefited: All; Capitals Benefited: All; Potentially benefits all communities; Short implementation timeframe, technology currently available and in use, established support network; Consistent with Planning Efforts: Yes Financial Feasibility: low order of magnitude
	Promote and incentivize energy auditing/measurements and verification, commissioning, and the implementation of energy conservation and efficiency measures (i.e. lighting, motor, service hot water heating, and HVAC controls)		All 9 Counties	X	X	X	NYSERDA		NYSERDA Existing Facilities Program							
	Educate and promote energy conservation and efficiency measures to municipalities, businesses, and residents highlighting the benefits of simple measures (i.e. maximize the use of daylight, use of occupancy sensors, installation of energy efficient lighting, and adjusting temperature controls)		All	X	X	X	Lighting Research Center, NYSEDA		RPI Daylight Dividends, New York State Pollution Prevention Institute at RIT, Golisano Institute for Sustainability at RIT							
	Develop and promote the adoption of local codes and policies that exceed the minimum requirements of the NYS Energy Conservation Construction Code		All	X	X	X	NYS Energy Conservation Construction Code	Reduce GHG and pollutants and protect health, environment and quality of life.								

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	Support research and development, deployment of pilot projects to validate technology and eventual commercialization of Net-Zero energy technologies.		All	X	X	X	US DOE		National Renewable Energy Laboratory, New York State Pollution Prevention Institute at RIT, Golisano Institute for Sustainability at RIT							
	Net Zero Energy Housing Development	Brownfield’s represent parcels of land in communities that can be cleaned and developed as Green development projects to assure the future users highest level of health and environmental benefits. Under NY State Brownfield program, tax credit incentive provides some financial reward for taking the risk. Since energy costs are of concern to occupants, this issue can be addressed by designing-developing a Green community that generates as much energy as it consumes. There is no such housing development known to be in New York State. It could attract more economic growth if the local communities and County agencies supported the Developer who is willing to invest in cleaning and development of Brownfield sites.	Monroe and others	X			County Economic Development Agency	This strategy relates a project (Lotus Green) under development in the Village of Churchville NY where a 4 acre parcel is to be developed into 30+ units Green housing development with Net-Zero homes. The property values on adjacent area to existing Brownfield’s would increase and new tax revenues will be generated by converting the land to beneficial use. Demonstration of Green technology with net-zero housing developments would enhance adaptation of better home building technologies in our area and offer Healthy living Green housing options to seniors who need to control the expenses of owning a residence. Rochester Finger Lakes Region needs to be known as Green Innovation Center and such a project would enhance the image and improve tourism to our area to see such unique developments.								
	Municipal energy policies/plan	Develop municipal energy policies that deal with all potential municipal energy development and intergrateable with comp plan and implementable through municipal land use regulation and control and development.	All	X			Regional, county and municipal entities.	Position municipalities to strategically deal with energy sources and adapt to changing technology.	Municipal energy policies/plans.							
Upgrade the existing conventional energy production and distribution system in a sustainable way																Subject Areas Benefited: Energy, Land Use, Materials & Waste Management, Economic Development, Climate Change, Governance, GHG Emissions, Agriculture & Forestry; Capitals Benefited: All; Potentially benefits all communities; Short implementation timeframe, technology currently available and in use, established support network; Consistent with Planning Efforts: Yes Financial Feasibility: low order of magnitude cost
	Replace inefficient lighting with modern, energy-efficient lighting		All	X	X	X	NYSERDA Rebates									
	Pursue Net-Zero Energy Technologies		All		X	X	US DOE		National Renewable Energy Laboratory							
	Obtain full compliance with the minimum requirements of the NYS Energy Conservation Construction Code		All	X	X	X	NYS DCEA, NYSERDA									
	Study ways to reduce public and private outdoor illumination		All	X												
	Retrofit existing public and private buildings with more efficient thermal envelopes		All	X	X	X										
	Study ways to and then overcome capture energy usage and distribution losses		All	X												
	Upgrade the transmission infrastructure to reduce distribution loss		All	X	X	X	NYS Public Service Commission									

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	Increase the use of demand response program to better manage supply and consumption		All	X	X	X	NYS Public Service Commission									
	Promote distributed generation		All	X	X	X	NYS Public Service Commission									
	Energy Reduction with LED Lighting	Replace 105 metal halide high bay lights with energy efficient LED light fixtures in the production area.	Livingston	X												
	High Efficiency Strategy for Ski Resorts	Replace high energy snow guns with high efficient snow guns or fans. Implement smart valves to increase efficiency of existing snow guns/fans. Snow making automation. Replace inefficient lighting with high efficiency lighting. Water reservoir on top of hill. VFDs for pumps.	Ontario	X												
	Increase energy efficiency in buildings.	County-based clean energy outreach to facilitate the number of buildings with energy-efficiency retrofits, onsite renewable energy, and CHP; as well as vehicle upgrades for economic development that reduce GHG emissions. As much as \$100MM is potentially available in the total mix of: federal grants, production/investment tax credits, incentives; state grants, incentives and financing (NYSERDA, NYPA, EFC, NY ISO, ESD); utility (RG&E, NSEG, National grid, national Fuel, municipal utilities), incentives and economic development. These funds leverage private investment and provide ongoing energy cost savings. For an example using \$10MM: assuming the incentive is 25% of project cost, it could spur a so much as \$400MM annual investment, with \$300MM from the private sector; assuming the project has a simple payback of 5 years, this investment generates \$80MM in reduced energy costs or new generation each and every year for the life of the project. So year 2 would see \$160MM in energy savings from year 1 and year 2 projects, year 3 would see \$240MM in energy savings from years 1, 2, and 3 projects, etc. County-based outreach can include a number of elements to spur higher clean energy investment: one stop shop website of all Federal, State, and Utility incentives across program administrators such as GreenMonore.org,	All	X	X	X	County IDAs, County Administration, Blue Springs Energy provides these services today to counties and IDAs.	Greater efficiency reducing GHG. Leading with economic development to reduce GHG creates a larger pool of support across the political spectrum. Although a high percentage of people and business owners identify themselves as "green", a low single-digit percentage utilize NYSEDA, utility, and Federal incentive programs. Also, less than single-digit today have onsite generation, and single-digit percentage of electric purchases use green energy via RECs.								
	Incentivize Net Zero Energy buildings that will produce all the energy they need.	Improve minimum standards for building energy efficiency. Reward/rebate insulation and conservation efforts and create more local jobs to accomplish the work.	All			X		Reduce GHG and pollutants and protect health, environment and quality of life.								
	Local Public Works Energy Use Reduction	Each County Planning Department will distribute a questionnaire to each local Department of Public Works to request summaries of the total energy used by category by each month. Separate by (at least) the following categories: truck/vehicle fuel used, electrical energy used, heating fuel and natural gas and propane. County to summarize the data and then it should be summarized by the entire region and state. Opportunities to reduce energy use shall then be reviewed such as switching vehicles to natural gas, improving lighting, furnace and motor efficiencies, or building insulation. In addition to traditional energy conservation improvements, options to share vehicles, staff or building should be evaluated. The options of renewable energy sources at the DPW locations should be considered.	All	X			County Planning Departments	Increase awareness of energy use patterns by the local DPWs; increase potential of sharing services and equipment to reduce overall energy use; increase the potential of the DPWs to purchase (together) newer vehicles that can use alternative fuels; review options for installation of on-site renewable energies at the DPW locations.								
	Regional Sustainability	Overseeing revisions to, implementation of, and evaluation of Regional Sustainability Plan.	All	X	X	X	Regional	Relevancy of the Regional Sustainability Plan, implementation of the Regional Sustainability Plan, monitoring and evaluation of the Regional Sustainability Plan, and integration with regional plans, studies, strategies and implementation. Adjusting to federal, state, regional and local policies.	Regional Sustainability Plan							

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	Energy Development Strategy for the Town of Avon	In 2005, the Town of Avon purchased and began renovating a historic building, known as the Opera House Block, in the Village of Avon for location of town offices. The Town Board made the important decision to support the village core and renovate an existing building rather than convert valuable farmland to a non-farm use. The goal of the project was to renovate the building in a way that preserves historic and community character and is energy efficient. As of 2013, the Town Board has renovated most of the building with the exception of the third floor, which was the original Opera House. For energy efficiency, a geothermal heating and cooling system was successfully installed. We estimate the yearly savings of the geothermal system vs. a more convention system is \$8,000 - \$10,000 per year. The Town would like to continue renovating the building and restore the Opera House floor for historic and cultural enrichment. The Town would also like to continue to incorporate energy efficient measures into the renovation process and have this project serve as a community model of how energy efficiency can be achieved in historic	Livingston	Yes			Town of Avon	Generate green energy to take advantage of net metering to reduce energy costs to constituents with a goal of energy independence.								
	Energy Storage for Peak Demand Reduction	Utility companies charge commercial customers and other large electricity users demand charges for periods when they use the most energy throughout the billing period. These "demand charges" significantly increase the cost of electricity, and are often 30% to 70% of a customer's electricity bills. A system consisting of energy monitoring, energy storage and power electronics can be deployed to store energy when costs are low and release this energy during periods of high demand, thereby significantly reducing demand charges. The system can also be utilized as emergency backup power for critical loads in the event of a grid outage. System costs are driven largely by the size and chemistry of the energy storage technology. These costs can be significantly reduced through a NYSERDA PON similar to the CHP Acceleration Program (PON 2568) recently released where customers are pre-approved and awarded funding on a per kW basis for reducing base load. A similar funding structure could be implemented based on demonstrated demand reduction (kW) or the size of the energy storage system (kWh) given a minimum utilization percentage.	All	Yes			Arista Power, NYSERDA	Reduced electricity costs for large commercial and industrial customers. Reduced peak demand burden for utilities and NYISO. These systems can also be utilized for demand response programs without the need for load shedding, making DR enrollment transparent to the customer. The system can also be utilized as emergency backup power for critical loads in the event of a grid outage. These are green systems from the standpoint that they will reduce the carbon footprint of customers who implement them and also reduce GHG emissions for the utilities as they will be able to reduce overall power generation.								
	Farm Energy Sustainability Plans	Individual Farm Energy Analysis, including review of loads, timing, motor efficiencies, lighting and fuel uses. Review of potential energy sources such as bio-gas, wind, solar and other renewable should be included. Creation of a realistic plan is the goal. Present worth calculations of potential savings will help farmers identify which ones should be prioritized.	All	X			County Planning Departments for oversight with NYSERDA	Engagement of farmers in the study will make them more likely to implement changes; identification of possible improvements; reduction in energy use; identification of possible farm equipment to switch to natural gas; identification of opportunities to share equipment and vehicles.								
Develop, produce, and employ renewable energy (wind, hydroelectric, solar, and geothermal)		Fossil fuels are expected to continue to play a significant role as a reliable energy source in the Finger Lakes region, due to its abundance and reasonable cost, relative to other energy sources								●	●	●	●	●	◐	Subject Areas Benefited: All; Capitals Benefited: All; Potentially benefits all communities; Short implementation timeframe, technology currently available and in use, established support network; Consistent with Planning Efforts: Yes Financial Feasibility: high order of magnitude cost with high potential to leverage other funding sources
	Reduce the reliance and use of fossil fuels		All	X	X	X										
	Develop storage and capture mediums for renewable energy		All	X	X	X	NYS Public Service Commission	Net Metering Law								
	Increase the use of wind power		All	X	X	X	NYS PSC, IRS (Federal Tax Credit) NYS Dept of Taxation (NYS Tax Credit)	See Notes								There are currently 12 incentive or rebate programs offered for the Finger Lakes region for installing various types of solar or wind systems
	Seek broader access to hydroelectric power		All	X	X	X	NYPA, NYS PSC, IRS (Federal Tax Credit) NYS Dept of Taxation (NYS Tax Credit)									
	Increase the use of solar power		All	X	X	X	NYPA, NYS PSC, IRS (Federal Tax Credit) NYS Dept of Taxation (NYS Tax Credit)	See Notes								There are currently 12 incentive or rebate programs offered for the Finger Lakes region for installing various types of solar or wind systems
	Increase the use of geothermal power		All	X	X	X	Geothermal Exchange Organization, American Groundwater Trust	ARRA								

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	Develop and promote the adoption of local policies that accommodate the development of on-site and community renewable energy generation		All	X	X	X	NYS Public Service Commission									
	Explore and develop innovative funding and financing options for the development of renewable energy production		All	X	X	X	REDC									
	Research the potential for and promote the use of public-private partnerships and/or purchase power agreements to encourage the development of renewable energy generation		All	X	X	X	REDC									
	Increase availability and geographic coverage of alternative public fueling stations using Electricity, Hydrogen, Bio-Fuel, CNG, Ethanol, LNG or Propane		All	X	X	X		Seneca Ag-bio Green Energy Park								
	Support research and development, deployment of pilot projects to validate technology and eventual commercialization of new renewable energy technology (i.e. on-site anaerobic digester system or mid-scale wind projects)		All	X	X	X	REDC									
	Educate the public and municipal officials on the benefits of renewable energy generation and address the potential negative impacts		All	X	X	X	REDC									
	Encourage counties, municipalities and local districts to conduct an inventory of potential alternative and renewable production and prioritize projects for implementation		All	X	X	X										
	Increase the use of wind power	Paradigm exists of POWER being massive, able to power entire communities, etc. This strategy involves the design/purchase/placement of small (500 watt scalable to 5 Kilowatt) systems placed on private residences to supplement existing grid provided electricity. The components necessary are currently available in the marketplace. A system is estimated to have a UMC of approximately \$2000 (2010 price list). Price includes all components necessary including grid tie inverter. The wind power would b provided by a VAWT mounted to the users roof similar to attic vent turbines that are commonplace and commercially available, wildlife safe, noiseless and barely noticeable ascetically.	All	X	X	X	Energy?	Low cost electricity, less green house gases, employment.								
	Regional Renewable Energy Generation Inventory	Have all municipalities and subdivisions (fire, school districts, etc.) conduct a renewable energy generation inventory that details potential for wind, solar, biomass or other electricity production opportunities. The goal would be to create a list of potential projects, including information on costs and MW production, which could then apply for partial funding from NYSERDA. Municipalities could use the NYSERDA subsidy to assist in financing PPAs that make the use of renewable cost competitive. NYSERDA would also be asked to fund creation of the inventory as a potential Phase 2 project under the Sustainability Plan.	All	X	X	X	Individual Counties									
	Regional Household Energy Audit Clearinghouse	Working in conjunction with local colleges and universities, the Region could establish a Household Energy Audit Clearinghouse where engineering students could either conduct themselves or verify energy audits conducted by vendors. The clearinghouse would provide homeowners with assurance that energy efficiency projects they are considering would actually provide the benefits and payback being sold. Consumers could then purchase products and services with their chosen vendor confident that the are making a financially sound decision. The benefits of the program would be reduced home energy use and economic development from the increase in the number of projects completed.	All	X	X	X	Individual Counties									
	Bio-gas Powered Fuel Cell and Hydrogen Development Research and Implementation	The Golisano Institute for Sustainability is interested in pursuing research where bio-gas from landfills and anaerobic digesters is used to power stationary fuel cells. The fuel cells would produce electricity and hydrogen from a sustainable feedstock fuel. The long-term potential exists to create hydrogen depots that could provide fuel for commercial fueling stations to sell to consumers driving hydrogen vehicles. The long term benefits from the project include greatly reduced GHG emissions from hydrogen vehicles, increased renewable electricity production, reduced VMT from the shipping of petroleum fuels and enhanced local job creation from establishment of a regional hydrogen distribution network.	All	X	X	X	Individual Counties									

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)				Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	
	Community Based Incentive Solarization Program	Create community based (county) solarization programs that will create renewed focus to implementing PV Solar technology through Solarization Marketing program that will assist interested consumers through organizing public information sessions, no charge siting assessments, bulk pricing arrangements with regionally based certified installers, and additional limited time program based incentive rebate of \$1,000-2,000 per site. The incentive funding can be allocated to the IDA for distribution on a first come first serve basis. Recommend conducting the program twice a year with each county IDA as this will provide the periodic visibility and create continued interest that is time sensitive. Example: In addition to the federal and NYSERDA based credits, and additional incentive of \$1-2k will promote those considering solar PV to make a commitment. It has been demonstrated that once a community is participating in the program additional installations will result above the incentive threshold. Recommended each county select 1-2 suppliers based on competitive bidding to the program, having a number of installations all in same area and relative know time frame will allow the venders to provide bulk based pricing that a resident may not typically see if the program did not exist. The programs previously done in Madison County are a good example of how well	All	Yes			County IDA's and regional based certified NYSERDA Solar PV installers	Accelerate PV Solar installations through creating periodic incentive based initiative allowing focused marketing efforts to combine with a package of educational information, competitive bulk pricing of turnkey systems, and efficient installations. Contribute to increase solar PV in counties/regions/NYS; provide additional jobs for installations; increased and accelerated contribution to reduction of green house gases (GHG)	Solarize Madison County http://www.solarizemadison.com/solar-program.html						
	Energy Efficiency and Renewable Energy	Many communities in the Finger Lakes Region are located near bodies of water. Wherever there is an elevation gradient in a stream, river or canal, it is possible to generate electricity through micro hydropower. Electricity is generated using the natural flow of water, a turbine and a generator. Scottsville, NY used to generate hydropower at neighboring Oatka Creek. The hydropower provided the electricity needed to run lumber mills years ago, a very important historical facet of the community. Scottsville could use this fantastic water power resource to create micro hydropower again. There is a pavilion in Canawaugus Park in Scottsville that could be totally powered through natural renewable energy (micro hydropower and solar energy - recently the Village applied for a grant for a PV solar system to supply electricity to municipal building and parks). Energy efficient LED lights could replace current park lighting. The Village also has a lab maintenance building, part of the sewage treatment (which will soon be closed) that they would like to power with renewable energy.	Monroe	Yes			Village of Scottsville	Electricity cost savings for a community, funds that are saved could be used on other important community projects. The Village could use this as a great educational opportunity, a way to show residents, school groups, and special interest groups that it is possible to generate electricity without using fossil fuels and forms of energy that pollute our earth. The Village could also explain its modern day and historic connection to micro hydropower generation and share this with the community and tourists. There could be signage throughout the							
	Energy Generation Using Hydropower	Many communities in the Finger Lakes Region are located near bodies of water. Wherever there is an elevation gradient in a stream, river or canal, it is possible to generate electricity through micro hydropower. Electricity is generated using the natural flow of water, a turbine and a generator. Medina would like to generate electricity through micro hydropower focusing on the area where Oak Orchard Creek crosses the Erie Canal to the north of the Village. This is the former site of a flour mill. The energy produced through this process could power Medina's Canal Basin Park. The park could be powered entirely through renewable energy - solar energy (Medina has applied for a PV solar system to supply electricity to municipal buildings) and a micro hydropower. Educational materials - signs describing and depicting how the park is powered could be on display. Tours could be given to school groups, interested tourists and residents describing how the park is powered sustainably.	Orleans	Yes			Village of Medina, Civil or Environmental Engineer, Contractor	Electricity cost savings for community, funds that are saved can be used on other important community projects. The community could have a park that is powered by renewable forms of energy. This could be a great educational tool for residents, school groups and special interest groups. The park could be a great attraction for tourists since it is already in a wonderful, picturesque location along the Erie Canal. Carbon footprint can be reduced in the community, through the use of natural renewable energy.							
	New Town Energy Independence	Riverton and Canada were both planned as self-sufficient new towns. Failure of region to grow as projected limited their growth development and prevented several of the common/independent facilities/institutions. This would use open land for large scale solar farm to supply low cost green energy to community residents and industry.	Monroe, Wayne				Towns, Utility Companies, Community Associations	Green energy production. Strengthen new town - self sufficiency philosophy. Inducement for new residential and business development	Original Federal New Town Development Plans						
	Accelerate local production of energy from agricultural waste.	The proposed strategy is focused on filling research gaps and creating the incentives needed to strengthen the value proposition of technologies like anaerobic digestion to local landowners. The following tactics would support the achievement of this strategy: Complete longer term study on waste profiles that are best suited for the use of anaerobic digestion, biomass conversion, biodiesel production, etc.; Complete cost-benefit analysis of the technologies mentioned above; Develop decision-making and technical assistance tools that can engage landowners; Create infrastructure for enabling farmers to sell waste energy to the grid; Use tax and other vehicles to incent local energy production	All	Yes			Regional economic development agency via partnership with university, county government, and NYSERDA	Regional economic development agency via partnership with university, county government, and NYSERDA							
	Energy Generation Using Hydropower	Many communities in the Finger Lakes Region are located near bodies of water. Wherever there is an elevation gradient in a stream, river, or canal, it is possible to generate electricity through micro hydropower. Electricity is generated using the natural flow of water, a turbine, and a generator. Lyons, NY used to have hydropower generation at the Erie Canal locks. Lyons would like to look into re-implementing micro hydropower in the lock system of the Canal. The energy produced through this process could power the nearby Lyons Canal Park. Energy efficient LED lights could replace current park lighting; the park could be powered entirely through renewable energy - solar energy (Lyons has applied for a grant for a PV solar system to supply electricity to municipal buildings) and micro hydropower. Educational materials - signs describing and depicting how the park is powered could be on display. Tours could be given to school groups, interested tourists, and residents describing how the park is powered sustainably.	Wayne	X			Village and Town of Lyons, Civil or Environmental Engineer, Contractor	Electricity cost savings for a community, funds that are saved could be used on other important community projects. The community could have a park that is powered by renewable forms of energy. This could be used as a great educational tool for residents, school groups, and special interest groups. The park could be a great attraction for tourists, since it is already in a wonderful, picturesque location along the Erie Canal. The carbon footprint of the community could be reduced, through the use of natural renewable energy.							

Energy Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)				Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Develop and implement micro-grid technology that integrates the advantages of independent local production and distribution systems with the storage and distribution capacity of a large grid										●	●	●	○	○	○	Subject Areas Benefited: All; Capitals Benefited: All; Potentially benefits all communities; Long implementation timeframe, technology currently undeveloped; Financial Feasibility: high order of magnitude cost with low potential to leverage other funding sources
	Local Energy	Regionalize control of energy generation and distribution	All		X	X										The advancement of a Micro-Grid could benefit a group as small as a cul-de-sac, or as large as a village.
	Community self-reliance	Community self-reliance (regional or multiple micro-grids)	All		X	X										There is an existing project in NYS to study elements of Smart Grid technology, which may lead to development of Micro-Grid strategies going forward
	Support research and development deployment of pilot projects to validate technology and eventual commercialization		All	X	X	X										
	Explore and develop innovative approaches to address micro-grid financing, ownership, and service models		All	X	X	X										
	Support sustainable cooperative business construction that reduces the dependency on traditional imported energy sources	Support development of micro-grids, defined here as 'a group of businesses in a symbiotic relationship using renewable energy and/or creating energy with micro turbines from natural gas or wind or shared thermal, that can operate off the grid for extended periods of time.'	Wayne	X			Wayne County IDA, Private Industry, NYSEDC, EDA, NYSERDA	Reduced dependence on imported energy, more efficient use of onsite energy lowering operating expenses for the company.	CEDS, Wayne EDC Strategic Plan, Wayne Industrial Sustainability Project (WISP)							

Transportation Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Provide for and promote alternative modes of transportation		also noted in GTC LRTP - the expansion of the bicycle, pedestrian, and public transportation network is warranted to expand travel choices	All					Reduce VMT, health benefits	●	●	●	◐	●	◐	Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, agriculture & forestry, climate change adaptation, GHG emissions Capitals Benefited: all Communities Benefited: all including other regions Planning Efforts: GTC LRTP 2035, REDC Strategic Plan
	Integrate the regional commuter choice program with the statewide 511NY program	from GTC LRTP - since roceasyride.org and 511NY share common goals, integrating them will increase traveler benefits by providing a one-stop-shop for residents to obtain information	All	x											
	Improve the diversity & safety of connections between community destinations	Improve the diversity & safety of connections between community destinations	All					Improve accesibility, connectivity & safety							
	Develop safe routes to school, especially in urban areas	Develop safe routes to school, especially in urban areas	All	x											
	Develop car sharing program	Develop car sharing program – to accommodate both urban and rural areas	All	x											
	Work with large employers, agencies, facilities, municipalities, etc to promote transportation demand management strategies	Work with large employers, agencies, facilities, municipalities, etc to promote transportation demand management strategies	All	x											
	Evaluate potential for BRT, light rail or fixed transit service serving major employers/destinations		All	x											
	Expand network of car-free cycleways		All	x			Local universities, school districts, Social and for-profit businesses	Increasing active transporation and ultralight electric vehicle use Creating and educating and enlightened workforce of sustainability workers and citizen scientists. Increasing tourism. Creating a model program particularly well-suited for our region, but adaptable nationally, helping establish a new image for 21st century sustainable innovation. Economic Development.							
	Subsidize Car Sharing Programs	Government could subsidize car sharing progrmas like ZipCar so that those programs would be available to many more people.	All	x				Increasing the number of people who could access car sharing programs would hopefully have several benefits. It would encourage more people to consider completely getting rid of a car, or at least downsizing from a two car household to a one car household. some poeple have short commuts and could walk or bike regularly, but may need a car now and then. If they could know that they would have access to a car when needed then they may get rid of car. If they do not have a car then we save energy and resources that would have gone into making that car. Also, if they do not have a car then they are more likely for any given trip to walk, bike, or take public transportation. This would help to reduc congestion and wear and tear on roads. It may even turn out that the subsidy invested would end up saving money in the long-run in reduced road maintenance.							
	Enhance & expand mobility & access for bicyclists	from GTC LRTP - Bicycle needs are often paired with pedestrian needs but they are different - need to improve conditions that facilitate bicycling as an active transportation mode	All	x											
	Enhance & expand connectivity & access for pedestrians	from GTC LRTP - Need to enhance & expand connectivity & access for pedestrians in regional & sub-regional urban cores, mature suburbs, rural centers, employment centers, local retail & higher education places - however all places will benefit from improved pedestrian facilities	All	x											
	Close the gaps in existing bike/ped infrastructure on- and off-road	Close the gaps in existing bike/ped infrastructure on- and off-road	All	x											
	Develop ped/bike master plans	Develop ped/bike master plans	All	x											
	Implement bike sharing program	Implement bike sharing program	All	x											
	Bicycle sharing program for downtown Rochester	Bicycle sharing program for downtown Rochester	Monroe	x			RGRTA	Less congestion in downtown Rochester, improve air quality, health benefits							
	Institute a regional ADA-compliant retrofit program	From GTC LRTP - Institute a regional program to prioritize the retrofit and/or new installation of ADA-compliant treatments	All	x											
	Implement recommendations from the Regional Trails Initiative	From GTC LRTP - Expand the amount of & increase the connectivity of multi-use trails in the Region as per the Regional Trails Initiative	All	x											
	Increase bike parking	From GTC LRTP - Increase the amount of bike parking at key locations in the regional & sub-regional urban cores, employment centers, retail and higher education places	All	x											
	Evaluate the feasibility of and implement car & bike sharing programs	From GTC LRTP - Institute car & bike sharing programs to expand access to automobiles & bicycles without requiring ownership	All	x											
	Increase frequency of existing public transportation service	From GTC LRTP - Increase frequency of existing public transportation service in the regional & sub-regional urban cores, mature suburbs, employment centers, medical/health institutions, higher education institutions and the airports	All	x											from GTC LRTP
	Add new public transportation services	From GTC LRTP - Increase service to employment centers and medical/health places - expansion should be tied to investments from those entities that will gain from additional service	All	x											from GTC LRTP
	Consolidate or reorganize rural transit systems to be most effective and efficient	Consolidate or reorganize rural transit systems to be most effective and efficient	All	x											

Transportation Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes	
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility		
	Encourage and/or develop partnerships to provide different public transportation options (vanpool, shuttles, etc)	Look for and encourage partnerships among private organization or between private/public agencies to provide different public transportation options – vanpools, shuttles, etc	All	x												
	Continue to leverage advances in technology to make public transportation desirable	Continue to leverage advances in technology to make public transportation desirable	All	x												
	Establish more regional park and rides		All	x												
	Regularly assess public transportation services	From GTC LRTP - Regularly assess and, as necessary, adjust existing public transportation services based on current & projected needs, demands and market potential	All	x												
	Improve bike accomodations on fixed route buses	From GTC LRTP - Install racks for bikes on public transportation buses	All	x												
	Create a mobility management program	From GTC LRTP - Design & implement a mobility management program that coordinates existing & future services of public, not-for-profit and private transportation providers	All	x												
	Construct satellite transit stations	From GTC LRTP - Construct satellite transit stations in the City of Rochester and assess their feasibility in mature and recent/emerging suburbs	Monroe, all	x												
	Improve bike/ped access focusing on existing or future nodes	Encourage pedestrians and bicycle use through developing friendly environments in nodes, improving pedestrian and bicycle access on local streets (complete streets is only one option), providing guidelines which assist local government officials to audit and improve the accessibility of and funding opportunities for their pedestrian and cyclist infrastructure	All	x												
	Emphasize the benefits of cycling and pedestrian programs for health and environmental benefits in an effort to better coordinate program and funding arrangements.		All	x												
	Reduce direct & indirect energy usage	From GTC LRTP - Providing opportunities to reduce the amount of energy consumed in the use & construction of transportation facilities & services can reduce dependence on foreign oil & decrease harmful fossil fuel & GHG emissions	All	x												from GTC LRTP
	Promote alternative transportation choices	This strategy addresses the promotion of transportation choices in the region to increase awareness of the availability and benefits of alternatives to travel via the single occupancy vehicle. This would include the development of a marketing campaign via both traditional and emerging (e.g., social) media that would emphasize the ability for travelers to improve the environment and save money by replacing single occupancy vehicle trips by using public transit, carpooling, bicycling, and walking and provide information on how to obtain information on each of them. This strategy will advance efforts currently underway and anticipated to be implemented in the region per the Long Range Transportation Plan for the Genesee-Finger Lakes Region 2035, some of which are being or will be advanced through conceptual planning in the current and future Unified Planning Work Programs of GTC.	All	x			NYSDOT, NYSTA, local transportation/highway/public works dept, RGRTA, GTC, non-for-profit transportation providers, public interest/advocacy groups	Maximize the use of existing alternatives to the single-occupancy vehicle – namely, public transportation services, multi-use trails and dedicated bicycle space, ROCEASYRIDE.org, 511NY – as well as the future ones included in the GTC LRTP 2035 (Expanding the multi-use trails and improved connectivity between them;Increasing the availability of sidewalks along federal-aid highways;Promoting safe routes to school programs;Increasing the amount of bicycle parking at key locations;Insuring that all fixed-route buses can accommodate bicycles;Opening of the Renaissance Square Downtown Transit Center;Design and implementation of a regional mobility management program that will coordinate the services of public, not-for-profit, and private transportation providers;Increased frequency of fixed-route public transportation services;Construction of satellite transit stations; and Instituting car sharing and bike sharing programs) This strategy is integral to meeting the targets for all of the non-freight transportation indicators. Increasing awareness through active marketing and promotion may lead to significant increases in some of the non-single occupancy vehicle alternatives by users								
Promote livability corridors			All					Use of existing infrastructure, reduce VMT & GHG emissions, improve affordability, access & connectivity	●	●	●	◐	●	◐		Subject Areas Benefited: all Capitals Benefited: all Communities Benefited: all including other regions Planning Efforts: REDC Strategic Plan, G/FLRPC Comp Econ Dev Strategy
	Shorten commute times – encourage living closer to work somehow		All	x												
	Support land use-transportation planning through education	From GTC LRTP - Support development that more fully considers & integrates transportation needs by creating & providing associated information materials for local planning & zoning boards	All	x												
	Construct multi-modal facilities at key locations		All		x											
	Maximize the opportunity to increase residential, employment, retail, community, and entertainment activity, around key population nodes		All	x												
	Prioritize initiatives to focus development on existing regional population nodes and population and employment corridors, thereby developing an opportunity to increase travel demand in non-peak directions and times, allow greater use of existing resources and capacity on the bus system, perhaps move to other means of rapid transit, and make walking and biking more feasible		All	x												
	Develop incentives to encourage nodal development	Develop programs that increase mixed-use development, as contextually and economically appropriate in nodes and connective corridors, and where possible identify public transport requirements and funding support as part of development applications	All	x												
	Identify and implement demonstration projects that fully consider and integrate transportation needs	Encourage demonstration projects that actively address communities' concerns and the perceived negative impacts of increased residential densities	All	x												
	Treat rural towns/communities like campuses for public transportation concerns		All	x												

Transportation Strategies

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	Invest in Community & Industrial Development & Infrastructure	From FLREDC Strategic Plan	All	x												
Leverage transportation system assets to encourage economic development			All						●	●	●	●	●	●		Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: human, built/manufactured, financial Communities Benefited: all including other regions Planning Efforts: GTC LRTP 2035, REDC Strategic Plan, GTC Freight Goods & Movement Study, G/FLRPC Comp Econ Dev Strategy
	Multi-modal/cultural tourism infrastructure development	Support building upon the existing cultural & ecological resources & multi-modal networks to develop the Region into a cultural tourism destination - link the historic, ecological & social resources of the Region	All	x			All levels of government	Economic development, potential reduced GHG emissions through increased use of hiking/biking trails, use of existing infrastructure								
	Educate the public & key stakeholders on the importance of freight transportation		All	x												
	Develop or promote existing recreational tourism projects within the region (biking, hiking, watersports, etc)		All	x												
	Develop/implement policies & infrastructure to encourage rail vs truck freight		All	x												
	Develop a regional rail system - light & commuter rail		All													
	Implement VMT tolls on the Thruway	VMT tolls instead of existing Thruway tolls to encourage alternative modes and rail freight	All	x												
	Encourage buying local to reduce VMT and energy consumption due to freight	Encourage buying local to reduce VMT and energy consumption due to freight	All	x												
	Encourage consolidated freight planning to maximize efficiency and promote rail	Encourage consolidated freight planning to maximize efficiency and promote rail	All	x												
	Encourage the expansion of freight rail infrastructure to effect modal change	Encourage the expansion of freight rail infrastructure to effect modal change	All	x												
	Expand connectivity & access for freight	From GTC LRTP - Connectivity & access for freight is identified as a primary economic need for the region now and in the future	All	x												from GTC LRTP
	Construct rail sidings to major regional landfills	From Freight & Goods Movement Report - Construct rail sidings to major regional landfills to facilitate the shift of inbound municipal solid waste from truck to rail	All	x			Rail operators, landfill operators, NYSDOT	Encourage freight via rail, economic development								
	Consider an intermodal transfer facility	From Freight & Goods Movement Report - Identify the appropriate location(s) for a regional-scale rail/highway intermodal transfer facility & identify potential customers to justify private rail investment in new intermodal rail service to the Region	All			x	Rail agencies/companies, NYSDOT, USDOT	Encourage freight via rail, economic development								
	Identify locations for access to regional short line railroads	From Freight & Goods Movement Report - Identify possible locations for local businesses to access regional short line railroads at small cross dock & transload facilities throughout the region	All		x		GTC, NYSDOT, IDAs, rail agencies/companies	Encourage freight via rail, economic development								
	Improve overhead clearance restrictions & sidings on RSR line	From Freight & Goods Movement Report - Improve overhead clearance restrictions & sidings on RSR line to allow for improved connections to Rochester & Monroe County from NSs Southern Tier line	Monroe, all		x		NYSDOT, rail agencies/companies	Encourage freight via rail, economic development								

Transportation Strategies

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	Preserve rights-of-way as noted in the Regional Right-of-Way Preservation Study	From Freight & Goods Movement Report - Take action to preserve rights-of-way on other lines identified in the Regional Right-of-Way Preservation Study, with higher priority given to lines on which potential new customers have been identified (6 noted in plan)	All		x		GTC, NYSDOT, rail agencies/companies, IDAs, local governments	Encourage freight via rail, economic development								
	Improve interchanges of rail cars between rail operators	From Freight & Goods Movement Report - Improve the efficiency & lower costs associated with interchanges of rail cars between rail operators	All		x		Rail agencies/companies	Encourage freight via rail, more efficient connections, resiliency & capacity of rail system, economic development								
	Facilitate trade with Canada via rail	From Freight & Goods Movement Report - Explore options to move freight across the border by non-highway modes, including roll-on/roll-off highway trailer-on-flatcar rail shuttle service	All			x		Encourage freight via rail, economic development								
	Utilize and build upon the existing rail system	Utilize and build upon the existing rail system including the shortline rail system, to improve efficiency of product movement and lower GHG emissions.	All	x												
	Establish/maintain wildlife crossings where transportation corridors cross habitat corridors to improve ecological connectivity within the region	Reduce negative impact of transportation networks where they intersect natural systems	All	x												
	Where transportation networks cross hydrologic networks, account for floodplains and natural conveyance that allow passage for aquatic life, maintain stream and floodplan capacity, and riparian corridors	Reduce negative impact of transportation networks where they intersect natural systems	All	x												
Maintain and improve the functionality, safety and efficiency of the existing transportation infrastructure		from GTC LRTP	All						☐	☐	●	☐	●	●	☐	Subject Areas Benefited: energy, transportation, land use & livable communities, GHG emissions Capitals Benefited: human, built/manufactured, financial Communities Benefited: all including other regions Planning Efforts: GTC LRTP 2035, REDC Strategic Plan
	Increase transportation system efficiency & operations	Encourage & promote TSMO projects and consolidation of municipal services such as waste collection	All	x				Reduce GHG emissions, improve air quality & safety								
	Improve or install wayfinding signage in business, cultural, and other unique districts as well as interregional travel facilities	From GTC LRTP - Providing information at key points is an important element in providing access to specific locations and can reduce delay and visitor angst	All	x												
	Continuously identify ways to increase & improve real-time travel information	from GTC LRTP - improved information on travel choices will lead to better decisions for all modes, and the means for doing so will continuously change	All	x												
	Continue conducting programs and training to improve incident response, management and clearance times	from GTC LRTP - programs like the NYSDOT Highway Emergency Local Patrol (HELP) decrease delay and increase safety on roadways	All	x												
	Institute informational programs to reduce distracted driving	from GTC LRTP - distracted driving is a major safety hazard and the problem will only increase without the development and implementation of educational and enforcement programs to reduce distracted driving	All	x												
	Continue to fund and promote the Regional Traffic Operations Center and promote interagency collaboration & coordination in progressing regional concepts of transportation operations	from GTC LRTP - to take full advantage of the capabilities of the RTOC and other regional concepts of transportation operations adequate number of trained personnel and interoperability are important	Monroe	x												
	Upgrade or install regional communications infrastructure for greater integration of transportation agency operations	from GTC LRTP - as new capabilities become available existing and expanded communications devices connecting instrumentation and TSMO staff will be implemented	All	x												
	Develop integrated/coordinated interchange & arterial signal timing systems & plans	from GTC LRTP - optimizing signal timings along and between major corridors improves efficient, leading to reduced delay and vehicle emissions	All	x												
	Identify & implement circulation, access & parking studies or complete streets recommendations, where appropriate	from GTC LRTP - the CAP plans have integrated transportation and land use planning and include recommendations that should be advanced as part of reconstruction and rehabilitation projects in the region	All	x												
	Operational improvements of interchanges/intersections	From GTC LRTP - Improve the function of interchanges on major highways & intersections throughout the region through improved design that increases safety, reduces delay & improves mobility	All	x												
	Advance access management recommendations as part of rehab & recon projects, where appropriate	From GTC LRTP - proactively managing access from highways to adjacent land can improve efficiency and reduce crashes, mitigating recurring and non-recurring incident delay without requiring physical expansion of infrastructure	All	x												

Transportation Strategies

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	Consolidate municipal services to reduce VMT	Encourage consolidate municipal services (like waste collection, plowing, etc) to reduce vehicle miles traveled, especially for heavy vehicles	All	x												
	Green technologies in transportation projects	From GTC LRTP - Increase the use of recycled materials & incorporate green technologies in the rehab & recon of highways & bridges	All	x												
	Analyze where people live vs work and/or use mobile phone data for transit planning		All	x												
	Strengthen transportation infrastructure through preservation & maintenance of the existing system	From FLREDC Strategic Plan	All	x												
	Implement transportation system management & operations (TSMO) recommendations	From GTC LRTP - Maximize the effectiveness and improve the safety of the existing transportation system through TSMO recommendations as noted in the GTC LRTP 2035	All	x												
	Preserve existing rights-of-way for future transportation uses	From GTC LRTP - when portions of existing linear rights-of-way are used for non-transportation uses, it is very challenging and expensive to reestablish or create a new corridor	All	x												
	Improve the functionality of waterways for boating through dredging		All	x												
	Implementing transportation infrastructure resiliency measures	This strategy addresses the vulnerability of critical surface transportation infrastructure to natural and man-made hazards, including the anticipated weather-related impacts of climate change on the regional transportation system. Regional emergency response plans designate floods, ice events, and snowstorms as major areas of concern. Each of these hazards has unique impacts on infrastructure and community transportation needs, particularly in the aftermath of a major event. This strategy will advance efforts to plan, build, and manage transportation infrastructure elements that have greater resiliency not only to recurring hazards like ice storms and floods, but also to severe weather events, such as extreme heat and heavy precipitation, that may occur with greater frequency as a result of gradual, long-term shifts in climate patterns.	All	x			NYSDOT, NYS Police, NYSTA, local transportation/highway/public works dept, RGRTA, county emergency management agencies, county sheriff dept, local fire/emergency dept	This strategy will improve the safety, reliability, and sustainability of the regional transportation system by identifying and assessing critical transportation infrastructure vulnerabilities: result in actionable information that can be used by agencies and organizations to remedy infrastructure vulnerabilities and better manage and operate their facilities, which will safeguard lives and property in the event of a hazard event: identify potential capital and programmatic actions that can mitigate both the short-term, severe impacts of hazard events and the long-term, incremental impacts resulting from climate change: facilitate efficient investments of public and private financial resources by reducing the expenses incurred by communities, businesses, and individuals during both short-term hazard event response and long-term recovery activities: reduce costs associated with disaster response and recovery operations: maximizes the return on investment (ROI) of public transportation funds by fostering projects that are not exposed to hazards or are better able to withstand hazard events should they occur: advance sustainability initiatives in the region by identifying ways to protect and								Noted in GTC Diversion Route Planning Initiative and forthcoming Regional Critical Transportation Infrastructure Vulnerability Assessment
Promote the development and adoption of alternative fuels and power sources		also noted in GTC LRTP	All					Reduce GHG emissions, improve air quality	●	●	●	●	●	●		Subject Areas Benefited: energy, transportation, land use & livable communities, GHG emissions Capitals Benefited: human, natural, built/manufactured, financial Communities Benefited: all including other regions Planning Efforts: GTC LRTP 2035
	Install alternative fuel infrastructure		All	x												
	Promote R&D, deployment of pilot projects to validate technology and eventual commercialization of advanced technology vehicles (e.g., electric hybrid, fuel cell, etc.)		All	x												
	Continue to encourage alternative fuel fleet vehicles (private or government owned)		All	x												
	Find ways to make alternative fuels/vehicles more affordable		All	x												
	Install infrastructure to support compressed natural gas (CNG) fueling		All	x			Municipalities, refuse companies, food & beverage processors, large dairy farmers	Lower GHG emissions, more affordable (33-55% less than gas), domestically (and potentially locally) produced								
	Install alternative fuel vehicle infrastructure for fleets	from GTC LRTP - develop stations to dispense alternative fuels and charging stations	All	x												
	Encourage alternative fuel vehicles for fleets	from GTC LRTP - incentivize the replacement of gasoline and diesel vehicles with those that are more energy efficient and environmentally friendly	All	x												
	Incentivize alternative modes & fuel vehicles by designating preferred parking in public parking facilities for alternative fuel vehicles, carpools, etc		All	x												
	Promote the awareness of alternative fuel technology and encourage their adoption in public and private fleets		All	x												
	Reduce direct & indirect energy usage	From GTC LRTP - Providing opportunities to reduce the amount of energy consumed in the use & construction of transportation facilities & services can reduce dependence on foreign oil & decrease harmful fossil fuel & GHG emissions	All	x												from GTC LRTP

Transportation Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
	Building a sustainable transportation system: enhancing the use of AFVs in Upstate New York	This strategy is based upon the premise that we can change our communities for the better through cooperation and voluntary partnerships, working to reduce our reliance on imported oil and improve air quality. Through this strategy, public/private partnerships will be developed to promote alternative fuels and vehicles, fuel blends, fuel economy, hybrid vehicles, and idle reduction. The main focus of the strategy is to establish funding aimed at incentivizing purchases and use of AFVs and their supporting infrastructure in the region. In addition, education and promotional material will be developed and distributed. This strategy has been successfully implemented in other parts of the country and our organization in particular has experience delivering such programs regionally.	All	x			Genesee Region Clean Communities	Increased use of AFVs and development of supporting infrastructure will lead to new jobs, better air quality, less reliance on petroleum, and – perhaps most importantly – bring us closer to the “tipping point” along the technology penetration curve whereby a vibrant AFV transportation system can be self-sustaining.							
Explore enhanced parking management options		from GTC LRTP - more efficient parking options could reduce VMT/GHG emissions	All												
	Implement an electronic parking guidance system for Downtown Rochester	from GTC LRTP - erect dynamic messaging signs and develop an application for smart phones and in-vehicle communication technologies to provide information on the availability of parking spots and where alternatives exist	Monroe		x										
	Encourage flexibility in local government parking policy		All	x											
Transportation System without Fossil Fuels	Move towards a transportation system that does not use fossil fuels.		All			x		Protection of health, environment & quality of life							

Land Use Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Create healthy, safe and sustainable communities		Promote the development of healthy, safe and vibrant communities that have access to a full range of opportunities and services.	All	X				Achievement of healthy, safe, sustainable communities where people have access to healthy foods, active living, cleaner water and cultural and social amenities.	●	●	●	◐	●	◐	This strategy benefits energy, transportation, land use and livability, materials/waste management, water management, economic development, agriculture and forestry, climate change, governance and GHG emissions. This strategy also benefits all five capitals and has the potential to benefit multiple communities. It can be applied in communities and in every county in the region, and has benefits that extend beyond the region. Implementation hinges on changing practices and processes and, therefore, there is the potential to accomplish it in a relatively short term. This strategy is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects), but it would reduce life cycle costs over the long term. It also has high potential to leverage other funding sources, including public sector monies. It was ranked a 3 for financial feasibility because the return on investment can be significant.
	Encourage the use of development practices, and invest in projects and green infrastructure that enhance water access, retain and improve water quality, and increase water safety to improve the quality of water resources and reduce erosion	Water quality and access to clean and safe waters is a priority for improving the quality and health of communities. Most water quality impacts are directly related to land use activities and development.	All	X											
	Increase the number of communities with current Comprehensive Plans that promote sustainability	Communities should adopt or update comprehensive plans to establish clear and innovative vision, policies, recommendations and strategies for sustainable land use and management.	All	X											
	Create a municipal sustainability office or a dedicated function for all counties or larger communities to provide cooperative stewardship of the Finger Lakes Regional Sustainability Plan.	To ensure that the Finger Lakes Regional Sustainability Plan is implemented, evaluated and updated on a regular basis it is important to have a designated entity to oversee and promote this effort. This can be accomplished either through the establishment of a municipal sustainability office or as a function of regional government.	All	X											
	Greenfield development should be sustainable	Greenfield development will continue to occur, particularly in rural areas, adjacent to centers. Such development should be undertaken in a sustainable manner that preserves open space resources, uses green infrastructure, and follows other sustainable principles.	All	X											
	Support the development of interconnected road and off-road trails that link the historic, ecological and social resources	Having connected resources provides wide reaching benefits to communities and enables residents and visitors easier access to cultural and natural resources in support of healthier living (recreational opportunities) as well as tourism and economic development.	All	X	X										
	Incorporate climate change considerations into comprehensive plans and zoning	Develop comprehensive plans to address climate change; analyze the built environment and identify ways in which municipalities, companies and residents can adjust or modify it in preparation for climate change. Enable municipalities to modify land use laws to incorporate climate change criteria for new development.	All	X											
	Support tourism infrastructure development (economic development)	Support building upon the existing cultural and ecological resources and multi-modal networks to develop the region into a cultural tourism destination spot.	All		X										
	Encourage use of STAR Community Rating System	Promote the use of the STAR Community Rating System, which is designed to help local governments assess how sustainable they already are, set a clear path to a sustainable future and measure progress toward sustainability goals. This system is flexible enough to accommodate communities of all sizes at various levels of involvement. The STAR Community Rating System offers recognition and certification.	All	X											
	Design communities to support active living	Communities should be designed to support the ability to walk to places (active living) and have mixed uses and a concentration of services in centers (re-establish traditional development patterns and neighborhood environments that don't depend on cars).	All	X											
	Ensure access to affordable, healthy foods	One important factor for creating quality communities and improving public health is access and availability of affordable, healthy foods. There are neighborhoods and centers where such access is not readily available.	All	X											
	Promote increased investment and social networks to improve the quality and safety of our neighborhoods	This strategy is tied to the need to make neighborhoods and centers better quality, safer places to live. Establishing this as a priority for increased investment and promoting this effort through social networking would help to turn things around.	All	X											
	Improve local educational systems	Improving school systems and educational services increases the quality and capacity of underperforming school districts, both urban and rural, and help rebuild population.	All	X											
	Dedicate public safety resources to promote safe neighborhoods	Community leaders need to consider policies and programs aimed at creating safer living environments and improving public safety.	All	X											
	Incorporate traffic calming measures in areas where there is a high density of activity	Pedestrians should have a safe and comfortable environment within centers with roadways that accommodate higher volumes of traffic, which may travel at higher speeds, to promote walking and streetside activity, particularly in areas with schools, parks, shopping districts, etc.	All	X											
	Use education and public outreach to raise awareness about sustainability	There are a wealth of academic institutions in the region that can be capitalized on to raise public awareness through ongoing education, public discussion and debate on the value and importance of sustainability for the future of the region's built environment and to embed sustainability into the local culture.	All	X											
	Use ecological frameworks as a basis for land use planning	Develop an ecological framework to identify preferred areas for development, working lands, ecological networks and landscape linkages. Integrate this information into local comprehensive plans to facilitate sustainable growth at a community level.	All	X											

Land Use Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
	Train local boards and officials in site plan and regulatory review that promotes more sustainable site design and development	Local land use decisions impact long term development patterns throughout the region. Local boards and other officials who are responsible for these decisions need a better understanding of sustainable land use to protect important natural resources, protect community character, improve quality of life and locate development in appropriate locations.	All	X											
Revitalize existing centers and prioritize the value of place making		Concentrate residential, employment, retail, community, and entertainment activity in areas with existing infrastructure to control sprawl and revitalize communities suffering from disinvestment.	All	X			Increased investment, decreased sprawl, stronger local economies, greater diversity, transportation efficient development, reduced energy use, protection of agricultural and forest lands and other natural resources and greater concentration of population in centers.	●	◐	●	◐	●	◐	This strategy benefits transportation, land use and livability, materials/waste management, economic development, climate change, governance and GHG emissions. This strategy also benefits all five capitals, except natural, and has the potential to benefit multiple communities. It can be applied in every center in the region (and every county), and has benefits that extend beyond the region. Implementation may take more than nine years as development patterns in communities change more slowly and this is a continuous and ongoing process. Furthermore, existing governance structures tend to constrain the ability for communities to implement revitalization efforts. This strategy is consistent with multiple regional and local planning efforts, including the Regional Economic Development Plan, the GTC Long Range Transportation Plan and local comprehensive plans. It has higher order of magnitude costs (capital projects), but it would reduce life cycle costs over the long term. It also has high potential to leverage other funding sources, including public sector monies.	
	Prioritize the value of placemaking to enhance quality of life and create vital communities	Placemaking fosters active, engaged relationships between citizens and the spaces that they inhabit, the landscapes of their communities, that creates a sense of communal stewardship and connection. It establishes a sense of place that hold deep and long lasting meaning to those who live, work and visit these places.	All		X										
	Create and recreate traditional neighborhoods	Revitalization efforts must recognize the need to create and recreate traditional neighborhoods (places) that provide a sense of identity and offer a mix of uses (quality of life factors).	All	X											
	Take streetscaping beyond the public right of way	Recognize that surrounding neighborhoods are an extension of the public space and design streetscaping and traffic calming projects within this context. Such efforts should help improve the local context, not just improve the ability to move people.	All		X										
	Discourage development in areas without infrastructure and support services to strengthen local economies	The expansion of infrastructure into undeveloped areas increases a system of services that requires maintenance and expenditures and promotes inefficient and unsustainable patterns of development (sprawl).	All	X											
	Invest in improvements to the public realm to promote private sector investment	Invest in improvements to the public realm (streetscapes, plazas, parks) in strategic areas (e.g., Main Streets) to promote private sector investment.	All	X											
	Facilitate and incentivize adaptive reuse of historic buildings and underutilized lands in traditional centers	There are many buildings that have potential for reuse, but developing green fields is cheaper and easier. Need to develop mechanisms to incentivize redevelopment of existing structures and investment in traditional areas of development.	All	X											
	Facilitate and incentivize 'in-fill' development through zoning regulations and design standards	Redevelopment in existing centers should be focused on vacant, underutilized parcels to fill in developed areas and keep development concentrated in these areas (which reduces costs, helps control sprawl and is more sustainable).	All	X											
	Revitalize City of Rochester residential neighborhoods	Increase density in 36 residential neighborhoods in the City of Rochester through infill, renovation of derelict housing and repair of unoccupied homes using sustainable construction and design standards. Deconcentrate poverty by welcoming all incomes.	Monroe		X										
	Increase economic opportunities for all residents	There will not be revitalization of centers if poverty remains overconcentrated in these areas. There is a need for more opportunities for jobs, education and other necessities to allow residents to prosper.	All		X										
	Invest in the development, promotion and preservation of cultural, artistic and historic assets	Cultural, artistic and historic assets are part of the fabric and character of communities centers and are important in maintaining the value and quality of life in this places.	All	X											
	Invest in community, industrial development, and infrastructure to reinforce the identity, sense of place and character of the area through downtown redevelopment, adaptive reuse of existing buildings and infrastructure, and historic preservation.	Building on existing assets (buildings, infrastructure, etc.), results in stronger centers through the recognition of community identity and character.	All	X											
	Improve access to credit and capital for revitalization and reinvestment to enable businesses to locate or expand in the region, particularly in centers where infrastructure exists to support such development.	Mechanisms and incentives are needed enable businesses to locate or expand in the region, with emphasis on areas where infrastructure exists to support such development. Consider public sector land banking, demolitions, land assembly, and real property tax incentives.	All	X											
	Practice efficient Regional Land Use Planning to discourage sprawl without population growth	Reform the inefficient way land is developed and steer development to already developed areas with existing infrastructure; avoid overdevelopment and sprawl without growth. Preserve community character in urban, suburban and rural areas.	All	X											

Land Use Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes	
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility		
	Use context-sensitive design to enhance the character of the surrounding community and provide better accommodations for non-vehicular traffic	As part of focusing development in centers, improve the design and use of local streets for walking and biking (sidewalks, bike lanes, transit stops, etc.) to integrate the roadway into the context of the surrounding neighborhood and encourage people to get out of their cars.	All		X											
	Improve core institutions in centers to build and retain population	To create livable communities, services, schools and safety are three factors that must be acknowledged and improved in order to attract people back to centers.	All	X												
	Take advantage of state programs to remediate and promote the adaptive reuse of brownfields	Reuse brownfield properties in developed places as a means of reinvesting in underutilized and abandoned areas, and consider use for agriculture (which provides inputs for advanced technologies).	All	X												
	Develop incentive structures that encourage development in centers and developed areas	Need to promote and incentivize development and redevelopment in existing centers and developed places, and discourage development on rural and agricultural lands. Keeping development and people closer to centers helps to capture investment and keep dollars in communities.	All	X												
	Encourage 'buy local' campaigns	It is important to support local businesses to help keep existing commercial centers vital.	All	X												
	Promote new job creation within existing centers	Develop programs to promote new job creation within existing centers where there is ample access to existing residential development and a supply of labor (reduces VMT, etc.).	All	X												
	Adopt a "fix it first" policy for infrastructure investment	Infrastructure investment should prioritize spending on improving and enhancing existing assets, and using available capacity in developed areas, rather than funding the extension of new services that support sprawl.	All	X												
Support and preserve rural centers and the character of rural areas		Public infrastructure, particularly sanitary sewer service, should be focused in centers to protect rural character and preserve farmland assets. Development and redevelopment should be focused in and around centers where services exist or can be readily extended rather than extending service into undeveloped areas.	All	X			Lower land consumption and preservation of agricultural and forestry resources, preservation of open space and natural resources, protection of habitats and scenic resources, water quality, lower capital and operating costs for infrastructure, economic development (finger lakes tourism), protection of rural character, and resiliency and reduced public risk from natural disasters (flooding, slope failure, etc.).	●	◐	●	◐	●	◐			This strategy benefits land use and livability, water management, economic development, agriculture and forestry, climate change, governance and GHG emissions. This strategy also benefits the human, natural and financial capitals and has the potential to benefit multiple communities. It can be applied in every county in the region, because all have rural areas to protect; benefits extend beyond the region. Implementation can be achieved faster than the revitalization of centers because it tends to have lower capital costs. However, existing governance structures tend to constrain the ability for communities to protect rural centers and character because there is pressure to grow. This strategy is consistent with multiple regional and local planning efforts, including the Regional Economic Development Plan, the GTC Long Range Transportation Plan and local farmland protection and watershed plans. Some of the implementation strategies may be expensive (land acquisition). It should reduce life cycle costs over the long term. The return on investment can be significant.
	Promote the conservation of undeveloped lands, habitats and scenic resources	Land development practices need to recognize the resource value and importance of open lands as habitat and community assets. Focusing new development in centers and existing areas of development helps protect rural lands and landscapes, important natural resources and community character, as well as control the costs of infrastructure investment.	All	X												
	Utilize land use tools to preserve agricultural lands and open space	Promotion, training, implementation of land use tools such as purchase of development rights, transfer of development rights, conservation easements and incentive zoning to preserve agricultural lands and open space in perpetuity.	All	X												
	Inventory lands and parcels of significant ecological and/or scenic value to protect highest value land	Inventoried important resources within a municipality provides the community with a better understanding of existing assets in order to balance development with environmental protection.	All	X												
	Educate policy makers about true fiscal costs of development, including operations and maintenance	Policy makers often do not understand the fiscal costs associated with development. It is important to consider not only the capital costs of installing additional infrastructure, but on-going operations and maintenance costs, including future repair or replacement costs when the systems reach the end of their expected life cycle.	All	X												
	Provide disincentives and increase the costs of unsustainable development, and reward (provide incentives for) good development.	Because it often costs more to develop in centers (or in the right place), communities need to provide incentives for good design and development and disincentives for developing green lands.	All	X												
	Recognize the value of natural systems and resources	Recognize that natural systems and resources are regionally significant assets worthy of protection and conservation when making land use decisions.	All	X												
	Support and encourage educational programs that integrate an understanding of ecology and environmental stewardship	There is a need to develop and expand educational programs that integrate an understanding of ecology and environmental stewardship into planning and design knowledge and practices. In doing so, it will result in better, more sustainable development in the right places.	All	X												

Land Use Strategies

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
	Protect and preserve agriculture as a means of protecting rural character	Recognize the value of agriculture and agricultural lands for community character, preservation of resources and economic sustainability. Farmland generates more tax revenue than it demands in services.	All	X											
	Protect natural systems, such as wetlands, stream banks and floodplains, for resiliency	Wetlands, streambanks, flood plains and other such natural resources provide important habitat and natural protection from storm events. These areas should remain free of development to reduce long term costs (maintain resiliency and reduce public risk).	All	X											
	Revise local zoning and subdivision standards to achieve more sustainable design and protect important resources and assets.	Revising local standards for parking, setbacks, minimum lot size and other requirements achieves more sustainable design. Creative subdivision design standards should also be adopted to protect important resources and assets.	All	X											
Encourage diversity of our communities to bring about a greater mixture of uses, people, ages and incomes		Strong communities are comprised of a mixture of cultures, assets, land uses and people of all ages and incomes. Such diversity can result in more prosperous, sustainable neighborhoods and centers that offer better quality of life and resiliency.	All	X			Better quality of life, reduction of poverty, enriched housing choice including affordable housing opportunities, supports aging in place, promotes mixed use communities that are more likely to be walkable, strengthens neighborhoods and revitalizes local economies, builds resilient communities.								This strategy benefits transportation, land use and livability, economic development, climate change, governance and GHG emissions. This strategy also benefits the human, social and built capitals and has the potential to benefit multiple communities. It can be applied in every community (and every county) in the region, and benefits can extend beyond the region. Implementation could take longer because of potential resistance to change in terms of how we develop our communities, although more diverse communities are more resilient. Existing governance structures tend to constrain the ability for communities to be more diverse. This strategy tends not to be directly addressed in regional and local plans. Financial feasibility is hard to determine, as it is hard to predict what costs might be (every community is different and the range of activities needed to implement this strategy varies). There are areas where it is easier to achieve diversity than others.
	Adopt flexible zoning that allows for mixed use development	Encourage local governments to adopt more flexible zoning that allows for mixed use development at appropriate locations to improve and enhance neighborhood and community diversity and vitality.	All	X											
	Support programs that facilitate aging in place	The needs of seniors, including housing availability and support services, need to be recognized to enable them to remain in their communities and maintain quality of life.	All	X											
	Eliminate funding and regulatory barriers to bring about more mixed use development	Existing policies and regulations constrain the ability and flexibility required to undertake mixed use development.	All	X											
	Invest in strong local school systems to attract and retain young families	Young families are more likely to locate in areas with better quality education systems.	All		X										
	Enrich living environments by increasing access to affordable housing and mixed income units	The utilization of zoning provisions and other mechanisms and policies that support housing choices and improve access to affordable and senior housing, such and apartment, accessory units and other creative options, promote community strength and diversity.	All	X											
	Increase the number of communities with current Comprehensive Plans that promote sustainability	Communities should adopt or update comprehensive plans to establish clear and innovative vision, policies, recommendations and strategies for sustainable land use and management.	All	X											
	Develop specific vision plans for community centers (urban design)	Create or update community comprehensive plans to include vision planning for core areas to establish what form the physical/built environment should take, identify sites for future development and redevelopment, identify development and economic strategies, identify strategies for a sustainable public realm, represent a regulating plan for revised zoning codes (form based codes), be the basis for a community marketing plan, and show where new housing and mixed use development should be located to achieve a more walkable community center. This would enable more predictable designs for potential investment opportunities.	All	X											
	Provide assistance to lower income homeowners to enable them to stay in place	Work with non-profit housing organizations to provide programs, such as home repair assistance, tool libraries, housing education and energy efficiency programs, to enable lower income homeowners to stay in their homes and maintain them in good condition.	All	X											
	Encourage a broader mix of housing types and price ranges	Residential development should offer a mix of housing options to accommodate the needs of all residents and help to create diverse neighborhoods.	All		X										
	Encourage "fine grain" development, at a human scale	This is about creating neighborhoods and vital communities with a mix of uses that avoids 'superblocks,' and large single-use developments.	All	X											
	Incorporate quality of life factors into land use decisions	Land use decisions and development should "build communities" rather than separate uses and support sprawl. Residential development should have access to parks, transportation choices, cultural assets, jobs and services that are typically available in centers.	All	X	X	X									
	Adopt and amend local regulatory policies, practices and processes to achieve sustainable design and development	Local regulatory policies, practices and processes should be flexible and allow for mixed use, diversity and placemaking. Codes should reflect community goals and promote sustainability, equity and innovation.	All	X											

Materials Waste Management Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Reduce the amount of solid waste generated in the region.			All	X			Primarily overseen by county-level waste management agencies, but all waste generators will have a role.	Decrease in public health risks; decrease in GHG emissions; decrease in leachate and thus water quality issues	●	●	●	●	◐	◐	Subject Areas Benefited: Energy, Land Use, Materials/Waste Management, Water Management, Climate Change Adaptation, GHG Emissions Capitals Benefited: Human, Natural, Built/Manufactured, Financial Communities Benefited: All Implementation Feasibility: Short implementation timeframe, technology currently available and in use, established support network Consistent with Planning Efforts: Yes Financial Feasibility:
	Target incoming waste for reduction at the sources, and new management methods at the disposal locations (landfills in the Finger Lakes)	Better characterize what is coming into region. Define highest and best use for the major components of this waste stream. Work to extract highest value of this material (which is not necessarily landfilling). Potentially work with state regulators to limit material coming into the region using strategies such as: "We won't take anything from anywhere not already reaching a 40% diversion/recycling rate."	All	X			County governments; NYS								
	Develop local innovative approaches to: 1) reduce packaging, 2) incorporate sustainable materials in packaging, and 3) develop reusable packaging	Use already established local materials expertise, purchasing power, and legislative initiatives, including local resources such as existing manufacturers, new private sector interests, and existing academic resources (e.g., at RIT's Golisano Institute).	All		X		A number of regional organizations								
	Develop innovative approaches to source reduction policy incentives	Successful implementation of this strategy requires strong government leadership to create educational material and policies that encourage businesses and residents to reduce their waste generation. This strategy supports the development and expansion of waste management/recycling businesses.													
	Explore feasibility of banning disposal of food scraps and yard trimmings		All	X			Led by local governments								
	Add Zero Waste Programs as part of new state Climate Action Plan		All	X			Led by local governments								
Increase the percentage of materials reused (upcycled), recycled, and composted within the region.			All	X			Organizations at all levels	Decrease in GHG emissions; decrease in materials generated and then landfilled; materials will enter local supply-chain enhancing economic development	●	◐	●	●	◐	●	Subject Areas Benefited: Land use, Materials/Waste Management, Economic Development, Climate Change Adaptation, GHG Emissions Capitals Benefited: Social, Natural, Built/Infrastructure, Finance Communities Benefited: All Implementation Feasibility: Short implementation timeframe, technology currently available and in use, support network established Consistent with Planning Efforts: Yes Financial Feasibility: Yes
	Develop local markets for recyclables	This provides regional self reliance, provides longer term solutions, and adds to the local economy	All	X			Led by local governments and economic development agencies; NYS								
	Explore feasibility of halting all increases in capacity at state's largest landfills		All	X			Led by local governments								
	Require local solid waste planning units to prepare plans that increase waste reduction and diversion and decrease disposal	Must decrease disposal by 50% by 2015, 75% by 2020	All	X			NYSDEC								
	Develop a new system to capture pre-consumer organics, then expand this system - once proven - to post-consumer organics	e.g., vegetable and fruit waste at point of processing (pre-consumer organics); food waste (post-consumer organics)	All		X		Led by local governments and large institutions								
	Develop innovative approaches to material diversion policy incentives	There are a host of innovative diversion initiatives for discarded materials that can be deployed particularly in the area of source reduction	All	X											
	Further support and develop existing recycling infrastructure	Such as Monroe County single-stream MRF and other recycling infrastructure	All	X			Local governments								
	Encourage on-site/backyard composting program	Provide training on proper installation and management	All	X			Led by local governments								
	Provide on-site digestion vessels	At the region's colleges, schools, hospitals, nursing homes, manufacturing plants and other facilities with cafeterias	All	X			Local governments working with NYS								
	Move toward composting, digestion, and appropriate land-application solutions for bio solids and other organic waste	Land application of bio solids are causing serious problems in various locations across the region--a new management regime needs to be developed	All	X			Led by local governments								

Materials Waste Management Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
	Reuse efforts should include the development and enhancement of materials exchange programs	That includes waste materials exchange program to facilitate use of waste materials as inputs	All	X			Led by local governments								
	Encourage building deconstruction and subsequent material reuse and recycling, as opposed to building demolition.		All	X			Led by local governments								
	Cultivate Industry Partnerships with Wastewater Treatment Plants to Stabilize System Capacity	The proposed strategy is focused on treating publically-owned wastewater treatment plants and their upstream users as a single system that can be optimized to meet future demands. The following tactics would support the achievement of this strategy: Identify WWTPs that operate at or near capacity for a single water quality parameter; Develop projections of industry growth in 5-10 years upstream of these plants; Target individual companies in growing sectors for pollution prevention/water conservation projects that address the parameters identified above. Key metrics might include the following: % of WWTP that operate with ≥ x% of excess capacity relative to specific set of parameters (e.g. BOD)	All	X			Agencies that provide technical assistance services focused on the environment/water.	Eases the burden on aging infrastructure for wastewater treatment; Reduces the need for and urgency of capital investment in additional infrastructure; in the near term, reduces energy costs at WWTPs; Reduces cost associated with discharge to individual companies; Promotes the development of best practice that can be transferred across industry sectors; Applies the proven framework of watershed management to a smaller scale system; Enhances communication across stakeholder groups (currently connected only by regulatory constructs							
	Increase efficiency of landfill gas capture/conversion to energy	Improve waste to energy management and conversion through introduction of new technologies and research	All	X			Local governments and technical assistance providers								
	Expand reuse to include construction and demolition (C&D) debris and building development opportunities, such as deconstruction and demolition	Increase C&D recycling operations; Create more aggressive building codes encouraging use of recycled materials, reuse, and deconstruction; Develop a debris management plan for extreme weather events	All	X			Local governments and technical assistance providers, stakeholders								
Address financial barriers through new revenue and business models	E.g., incentives, appropriate user fees, etc.	Goal is to make sustainable materials management a viable option from a financial standpoint vs. waste disposal models.	All		X		Local governments working with academic institutions and others.	Creates business opportunities utilizing local materials to enhance local economy.	●	●	●	◐	◐	◐	Subject Areas Benefited: Energy, Land Use, Materials/Waste Management, Water Management, Climate Change Adaptation, GHG Emissions, Economic Development Capitals Benefited: Human, Social, Natural, Built/Infrastructure, Financial Communities Benefited: All Implementation Feasibility: Implementation timeframe, support network being developed but not formalized Consistent with Planning Efforts: Yes Financial Feasibility:
	Develop incentive programs to encourage materials use/reuse vs. disposal	For instance, take back/deposit programs	All	X			Local governments working with NYS								
	Manufacturers responsible for funding of recycling efforts on their products (product stewardship)		All		X		Local governments working with NYS								
	Develop "green fee" system	Would provide reliable source of revenue to help fund materials programs - reduce disincentive	All		X		Local governments								
	Encourage carbon credit policies	Focus on highest and best use of materials from a standpoint of carbon reduction	All		X		Local governments working with NYS								
	Address low tipping fees	Tipping fees currently do not include all externality costs (thus, they are a disincentive to sustainable approaches to materials/waste management)	All	X			Local governments working with NYS								

Materials Waste Management Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes	
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility		
	Taxes on packages that are not reusable, recyclable, or compostable		All	X			Local governments working with NYS									
	Institute more Pay-as-You-Throw programs and every-other-week trash pickup	Would generate revenue, encourage source reduction, and build efficiencies into infrastructure	All	X			Local governments									
	Address net-metering as it is a challenge and particularly limiting in rural areas	This relates to digestion, energy production, and distributed energy	All		X		Local governments working with NYS									
	Develop financing opportunities for pilot projects that validate new waste reduction and diversion technology and the benefits of implementation.		All	X			Local governments, academic institutions, other technical assistance providers									
Promote comprehensive sustainable materials management education, awareness, and research services			All	X			Local governments	Decrease in solid waste generated and landfilled; increase in recycling, composting, and reuse programs; producer and consumer responsible for appropriate materials management							Subject Areas Benefited: Materials/Waste Management, Climate Change Adaptation, GHG Emissions, Economic Development Capitals Benefited: Social, Natural Communities Benefited: All Implementation Feasibility: Short implementation timeframe, established support network Consistent with Planning Efforts: Yes Financial Feasibility:	
	Educate the public, government, businesses, and institutions regarding waste management regulations and requirements, and the cost of waste management, as well as the benefits of sustainable materials management and how to effectively reduce, reuse, and recycle		All	X			Local governments working with academic institutions and others.									
	Develop metrics and education strategies to define and articulate the true value of materials		All	X			Local governments working with academic institutions and others.									
	Utilize the expansion of SMM markets and initiatives to create collaborative services and economic development opportunities	Developing local markets requires a working partnership between the county departments responsible for solid waste management and local economic development agencies.	All	X												
	Provide service opportunity analysis assistance for institutions and businesses	Provide intensive consulting services to organizations to help reduce waste throughout process steps in the organization	All		X		Local governments, academic institutions, other technical assistance providers									
	Hold a series of sustainable economic development workshops	Educate around highest and best use dictum	All	X			Local governments working with academic institutions and others.									
	Leverage, support and promote regional organizations that provide research and education in efficient materials use, reduction of waste and energy efficiency	including FAME, MACNY and P2I.	All	X			Local governments, academic institutions, other technical assistance providers									
	Develop new, creative outreach approaches	Which: 1) looks beyond email, websites, and electronic social networking (while all are good to deploy), and 2) recognizes that large segments of society don't have access to these means of communication	All	X			Local governments									
	Bring waste haulers and transporters under jurisdiction of DEC through licensing, requiring reporting of all waste and recyclable collections and disposal, and providing for oversight and compliance		All	X			NYSDEC and local governments									
	Develop and Implement Model for Brokering Materials Regionally	The proposed strategy is focused on filling research gaps and creating the incentives needed to strengthen the value proposition of technologies like anaerobic digestion to local landowners. The following tactics would support the achievement of this strategy: Complete longer term study on waste profiles that are best suited for the use of anaerobic digestion, biomass conversion, biodiesel production, etc.; Complete cost-benefit analysis of the technologies mentioned above; Develop decision-making and technical assistance tools that can engage landowners; Create infrastructure for enabling farmers to sell waste energy to the grid; Use tax and other vehicles to incent local energy production	All	X			Regional economic development agency via partnership with university, county government and NYSERDA	Mitigates emerging regional concern regarding the overuse of land application; Supports the local energy economy and promotes energy independence; Results in direct cost savings for landowners; Reduces GHG emissions derived from energy production from fossil fuels; May accelerate green technology development (strengthens market demand)								

Materials Waste Management Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
	Promote Mainstreaming Efforts for Innovative Waste Treatment (such as Vermiculture)	Sewage sludge is often trucked long distances for disposal. This costs the community a great deal of money uses natural resources (gas to fuel hauling truck), and creates air pollution. Vermiculture (also called vermicomposting) is an innovative technique that can be used to solve this waste disposal issue. In vermiculture the sludge needs to first be dewatered, then this material is fed to worms (this can be done in a trench system). The worms convert the dry sludge into worm castings, which is great, odorless fertilizer, which can actually be sold. This process reduces pollution, saves money (by reducing transport distances for sludge disposal), and turns the sludge into something useful. Project: The Village of Lyons currently has sludge from their wastewater treatment plant trucked to Canandaigua, NY, approximately 25 miles away, where if a vermicomposting system was developed at a Village owned site near the existing plant then money and natural resources could be saved.	Wayne	X			Village and Town of Lyons, Civil or Environmental Engineer, Contractor	Cost savings for a community, funds that are saved can be used on other important community projects. Reduction in use of fossil fuels (reduced hauling distance). Decrease in air pollution through minimizing sludge hauling distance. Positive environmental impact by converting sludge (a pollutant) into a fertilizer that can be used in agriculture. It is important to reduce carbon footprint to reduce global warming and climate change. The vermicomposting project would enable a community (in this case Lyons) to make a significant reduction in their carbon footprint by modifying the distance of hauling operations.							
	Accelerate local production of energy from agricultural waste.	The proposed strategy is focused on filling research gaps and creating the incentives needed to strengthen the value proposition of technologies like anaerobic digestion to local landowners. The following tactics would support the achievement of this strategy: Complete longer term study on waste profiles that are best suited for the use of anaerobic digestion, biomass conversion, biodiesel production, etc.; Complete cost-benefit analysis of the technologies mentioned above; Develop decision-making and technical assistance tools that can engage landowners; Create infrastructure for enabling farmers to sell waste energy to the grid; Use tax and other vehicles to incent local energy production	All 9	X			Regional economic development agency via partnership with university, county government, and NYSERDA	Regional economic development agency via partnership with university, county government, and NYSERDA							

Water Management Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Inventory, monitor and educate to create a better understanding of the region's water resources.		Promote a better understanding of the balance of the region's "water system". In this context, the water system includes inputs from precipitation and watercourse flow. Outputs include withdrawals for human use and different aspects of the hydrologic cycle, including watercourse flow.	All			x	All levels of local government	Increases the chances that future efforts to enhance the quality of the water environment will be successful							This broad strategy should benefit 5 subject areas: Energy, Water Management, Agriculture & Forestry, Climate Change Adaption, and GHG Emissions; all feasibility capitals. Implementation will be straight forward, but will require diligent follow-through. The Financial Feasibility is scored high. This strategy will not be particularly expensive, but will require consistency in approach.
	Track USGS-compiled and published "Water Use County Data"	Track and record trends in this published data. Promote understanding of the inputs and withdrawals to/from regional water bodies and groundwater. This will help to better understand the functions of the region's water process which will allow the region to anticipate and react to stresses on the system.	All			x	All levels of local government								
	Create a repository of rainfall/runoff data and models	A thorough collection of hydrologic and hydraulic models created and managed in a consistent manner will help in the understanding of the region's water system. Rainfall runoff models are created as part of development projects, municipal master planning, academic studies, canal authority management procedures, and other efforts. Some municipalities have been successful in creating, assembling, and managing master hydrologic models based on calculations paid for by project applications.	All			x									
	Invasive Species Monitoring	Create a regional aquatic invasive species prevention/monitoring program	All												
	Develop natural resource inventories	Develop natural resource inventories to identify high priority water and natural resources and prioritize protection and restoration projects	All												
Promote regional standardization of regulations and management		Collaborate regionally through the standardization of water resource management practices across villages, cities, towns and counties. Water resource management strategies should consider all water-related strengths, weaknesses, opportunities, and threats. Water resource management strategies should also consider their relationship to each of the tenets of sustainability.	All			x	All levels of local government	Better alignment of regulations in problem areas. Increased awareness and cooperation.							This broad strategy should benefit 5 subject areas: Energy, Water Management, Agriculture & Forestry, Climate Change Adaption, and GHG Emissions; all feasibility capitals. Implementation will be challenging, particularly because of strong 'home rule'. The Financial Feasibility is scored high. This strategy will cost more political capital than financial capital.
	Promote Community Vision Planning	Concentrate future growth in existing centers and protect open space. Creating or updating community comprehensive plans including a Vision Plan (master plan) that would guide future development for its center including the use of innovative land use tools (transfer of development rights and form based codes), be the basis for a community marketing plan and economic development plan, and make the expectations more predictable for potential developers.	All			x	All levels of local government								
	Establish the Genesee River Institute	The Finger Lakes Regional Sustainability Plan Consortium would convene a group representing agencies, universities, and organizations that are involved in water quality management, floodplain management, emergency mitigation, recreation, public education and economic development with an interest in the Genesee River Watershed. This group would be charged with founding the Genesee River Institute, modeled in part on the Finger Lakes Institute in Geneva, NY. The Institute's mission would be to collaborate on watershed research and programs; share program, policy education and outreach materials with institute members; and apply for Great Lakes (and other) grant funding.	All			x									
	Continue to support the development, update and implementation of watershed management plans	As watershed management plans are developed and adopted, follow through with the implementation of the initiatives described therein.	All		x		All levels of local government								
	Provide training and technical resources to support local government in the implementation of land use regulations to support water resources and mitigate flooding	Identify and provide resources to implement land use tools and regulations such as conservation easements, purchase of development rights, riparian buffer ordinances, etc	All	x			All levels of local government								
Preserve existing ecosystem services and promote green infrastructure to reduce reliance on grey infrastructure		Reduce grey infrastructure costs (construction, maintenance) through rewarding ecosystem services such as tax valuation or credits, stormwater utilities, and the use of green infrastructure.	All		x		All levels of local government	Improved surface water quality, reduced O&M costs for utilities, reduction of flashy hydrograph peaks							This broad strategy should benefit 5 subject areas: Energy, Water Management, Agriculture & Forestry, Climate Change Adaption, and GHG Emissions; all feasibility capitals. Implementation is feasible, but will take time and will come with acceptance of the idea. The Financial Feasibility receives an average score because under the current system, the installer may not directly receive the benefits.
	Encourage Net Zero Pervious Surfaces	Aim for net zero change to pervious surfaces. Any new development that adds pavement should be offset by restoring paved land to pervious/green space.	All		x		All levels of local government								
	Preserve Open Space	Promotion, training, and assistance with implementation of land use tools such as purchase of development rights, transfer of development rights, conservation easements and incentive zoning to preserve agricultural lands and open space in perpetuity	All		x		All levels of local government								
	Provide Financial Incentives	Increase the number of municipalities offering financial incentive to increase green infrastructure or reduce the amount of Stormwater runoff leaving a property. Examples of incentive could include (but would not be limited to) such things as tax credit, reduced Stormwater permit and other fees based on reduction of impervious surfaces, etc.	All		x		All levels of local government								

Water Management Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
	Improve Onsite Wastewater Treatment Systems	Onsite Wastewater Treatment Systems (OWTSs) are a significant source of nutrients and bacteria to surface water in the Finger Lakes Region. The nutrients contribute to algal blooms in the regions ponds, bays and lakes; swimmers can experience negative health impacts from bacteria associated with some algal blooms and the waste water. OWTSs are emblematic of two very natural human behaviors: "out of sight, out of mind" and "why should I bother with this if my neighbors aren't bothering?" While routine OWTS maintenance is affordable, it is usually deferred until the situation and no longer be ignored and the only options are very costly. The Departments of Health in Finger Lakes Region counties could develop a method of obtaining permit origination and renewal fees for OTWSs that would be put in a reserve fund for education and outreach efforts and income-eligible grants for maintenance and replacement.	All		x		Counties								
	Explore use of natural systems for wastewater treatment	Support research institutions in the research and development and implementation of pilot projects to validate effectiveness	All		x		Research institutions								
	Support Invasive Species Management Program	Coordinate with the NYS Partnership for Regional Invasive Species Management Finger Lakes Chapter to develop invasive species management goals and priorities in the region	All			x	All levels of local government								
	Promote the implementation of best management practices	Promote the implementation of agricultural and transportation best management practices to improve water quality	All		x		All levels of local government								
	Implement stream and riparian restoration projects	Implement stream and riparian restoration projects identified in watershed management plans.	All		x		All levels of local government								
	Explore incentive and permitting programs as funding sources	Explore incentive and permitting programs as potential avenues to fund improvement projects (i.e. carbon crediting, TMDL or habitat mitigation banking)	All	x			All levels of local government								
	Implement the recommendations of the Great Lakes Compact (VB 7)	Implementation of Great Lakes Compact - Sustainable Flows in Lake Ontario (BV7) – http://www.nature.org/ourinitiatives/regions/northamerica/areas/greatlakes/policy/plan-bv7.xml . The International Joint Commission (IJC) has proposed a new plan to balance the needs of people and nature, a plan that benefits hydropower, shipping, hunting and fishing, recreational boating, and shoreline property, while focusing on the health of the Lake Ontario – St. Lawrence ecosystem as a whole.	All		x		All levels of local government								
Through water conservation, ensure adequate timing and flow of water in streams, rivers, lakes and aquifers for sustainable use for people, industry, energy and nature		Treating wastewater and potable water requires large amounts of energy. Moving water can provide energy. Make the relationship of energy and water more beneficial to the region.	All			x	All levels of local government, utility providers	Reduction in GHG emissions. Reduction in water treatment costs.							This broad strategy should benefit 5 subject areas: Energy, Water Management, Agriculture & Forestry, Climate Change Adaption, and GHG Emissions; Benefits social, natural, built and financial capitals. Implementation is feasible, but will take time and will come with the availability of funding. The Financial Feasibility receives a low score because under the current climate, it is assumed that securign funding will be difficult.
	Encourage and support organizations that can improve water-related energy practices.	Leverage, support and promote regional organizations that provide research and education in efficient materials use, reduction of waste and energy efficiency, including FAME, MACNY and P21. Develop financing opportunities for pilot projects that validate new technology and the benefits of implementation.	All	x			All levels of local government, utility providers								
	Decrease energy usage by water-related utilities.	Reduce the water/energy nexus by reducing the amount of grid delivered energy needed to manage water. Water treatment is extremely energy-intensive. New and improving technologies all for nearly constant opportunities to improve efficiency. Close monitoring and continual evaluation of equipment and practices will identify the best opportunities for upgrades.	All			x	All levels of local government, utility providers								
	Generate renewable energy from used water.	Moving water contains energy. In many cases, moving water contains more energy than is needed to transport it to its destination. Micro-turbine and other energy-capture technologies have developed to the point where small-scale applications might provide a desirable benefit/cost ratio. Increase the percent of renewable energy generated from used water, including stormwater.	All			x	All levels of local government, utility providers								
	Promote and educate businesses and residents on water reuse and reducing water use		All	x			All levels of local government, utility providers								
	Educate and promote the implementation of best management practices to improve water efficiency of crop irrigation and landscaping practices		All	x											
Maintain and improve the functionality and efficiency of the water supply and wastewater infrastructure systems			All	x			Authorities/agencies/government entities responsible for maintenance of infrastructure								This broad strategy benefit 3 subject areas: Energy, Water Management and Economic Development; Benefits social, natural, built and financial capitals. Technology for implementation is available. Consistent with REDC Plan to maintain and improve infrastructure. Potential to leverage other funding sources

Water Management Strategies

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
	Decrease water loss in water supply infrastructure systems	Implement improvements in infrastructure systems to reduce water loss in transport	All	x			Authorities/agencies/ government entities responsible for maintenance of infrastructure								
	Develop, implement and update asset management programs	Begin to establish data bases of water-related infrastructure and other assets. Asses the condition of these assets and their primary components. Prepare a plan for their management, maintenance, and replacement.	All			x	All levels of government	Develop, implement and update asset management program to more effectively and efficiently manage assets and infrastructure.							
	Cultivate Industry Partnerships with wastewater treatment plants	Explore the possibility of forming public/private partnerships to manage this infrastructure	All	x			Authorities/agencies/ government entities responsible for maintenance of infrastructure								

Economic Development Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes	
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility		
Embed the framework of this Plan into all planning, execution and measurement activities throughout the region			All	X	X	X	REDC & Regional Planning & Municipal Entities	Unique branding and alignment, focused investment, competitive advantage	●	●	●	●	○	●	This strategy is a new concept that emerged during this planning effort, therefore is not contained within any existing planning documents. Executed properly, has potential to benefit across subject areas, the region and all 5 capitals, is readily implementable and financially feasible.	
	Expand the representation at all regional and municipal planning entities to include expertise from all 5 capitals		All													
	Incorporate FLRSP measurement matrices into the tracking and reporting of all investments		All													
	Develop project evaluation forms that contain the complete project criteria recommended in the FLRSP for use on all projects applying for economic development support and funding		All													
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 Capitals (Financial, Human, Social, Natural & Built) and have broad commercialization potential.			All	X	X	X	REDC, Economic Development Entities	Leveraging region's unique capabilities, innovation pipeline	●	●	●	●	●	◐	This strategy was taken from the REDC Plan and expanded to incorporate the 5 capitals while focused to encourage the development of an economy founded on the uniqueness of the place, rather than chasing generic strategies	
	Network, collaborate and promote regional organizations that encourage and support entrepreneurship, technology transfer and small business - align their criteria & priorities with the Finger Lakes Regional Sustainability Plan		All													
	Identify and support innovation throughout the regional nutrition supply and processing chain		All													
	Support innovation in alternative, renewable and distributed energy and its enabling infrastructure		All													
	Develop funding center to identify and connect emerging innovations with financial resources (seed, grants, venture capital, etc.)		All													
	Increase collaboration between educational institutions and existing businesses to support innovation of products & services aligned with the Finger Lakes Regional Sustainability Plan		All													
	Expand access to seed, early-stage, venture, and public/private capital.		All													
			All													
Invest in critical infrastructure to foster economic expansion and advance sustainable initiatives (access, function, resiliency)			All	X	X	X	REDC & Regional Planning & Municipal Entities	Incorporation of sustainable goals into infrastructure investment, strategic support of economic vitality & community benefit	●	◐	●	●	●	◐	Need to remain mindful to avoid sacrificing natural capital in the pursuit of the other capitals. Current funding model for infrastructure is challenged to provide for these needs. This strategy exists in the REDC plan but was refined to address access, function and resilience.	
	Develop regional condition, capacity and vulnerability assessments and inventories for all critical infrastructure		All													
	Accelerate the development and adoption of independent, local networks of critical infrastructure (communications, energy, water, wastewater, micro-grid, etc.)		All													
	Invest in ecological resource-related projects that enhance ecological systems, improve water access, retain water quality, and increase water safety.		All													
	Invest in key projects that will address transportation system barriers to growth and strengthen transportation infrastructure through systemic analysis.		All													
Expand and align training and education initiatives to target strategic sectors and meet the needs of existing and emerging industries.			All	X	X	X	Educational providers and business leaders	Reduction of unemployment while filling local hiring needs	◐	◐	●	●	●	◐	This strategy has the potential to benefit Energy, Land Use & Livable Communities, Transportation, Economic Development and GHG Reduction. Benefits all capitals with the exception of Natural Capital explicitly.	
	Connect private industry with the educational system to stimulate early awareness and interest in manufacturing career opportunities and align programs to deliver qualified candidates		All													
	Develop education and re-training networks to enable displaced or under-employed workers to fill strategic regional employment needs.		All													
	Foster closer cooperation among the region's companies and institutions of higher education to accelerate technology transfer and align workforce training programs with the skill sets required by the sector.		All													
Protect, enrich and market the unique natural, cultural, agricultural, and destination assets of the region.			All	X	X	X	Ecological, economic development, tourism and cultural institutions	Preservation of the core assets of the region, preservation of the free services that the ecological elements provide, natural beauty and quality of life, economic attraction	◐	◐	●	●	●	●	Benefits Land Use & Livable Communities, Water Management, Economic Development, Ag & Forestry, & GHG Reduction. Benefits Human, Natural and Financial Capitals.	
	Support the efforts of regional partners in identifying and securing funding for tourism promotion		All													
	Recreation and Water Quality Special Projects Fund		All													

Economic Development Strategies

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
	Develop, network, and promote the region's growing wine, culinary, agricultural, and food micro-enterprises.		All												
	Strengthen and support the development of the Finger Lakes' diverse water resources and recreational tourism opportunities, allowing greater access and promoting year-round use.		All												
	Build on a positive destination image by leveraging partnerships and promotions of the region's high profile events, and healthcare and educational assets for business development, expansion, and retention.		All												
Leverage the Story of Place™ to build community capacity, align and focus business development and branding			All	X	X	X	Economic planning entities, educational and cultural institutions	Restore a strong sense of place to the region, align, reconnect and engage citizens, brand the region, provide strategic focus	●	●	●	◐	○	●	This strategy has the potential to benefit widely across all subject areas, all capitals and all areas of the region. It is very feasible to implement financially, although cultural changes will be necessary. This concept was newly introduced during the planning process therefore it is not contained within existing regional plans.
	Promote "storytelling" events (through museums, schools, local media, professional associations, and other venues) that invites local people to share and deepen their understanding of what makes this region distinctive.		All												
	Use the Story of Place™ process initiated by this report to inform branding efforts for the region.		All												
	Set up a Sustainability Advisory/Resource Group to help businesses, NGO's, research groups, governments, and others to use what has been learned from this sustainability planning exercise to develop more successful and sustainable proposals.		All												
	Enlist regional universities to design sustainability curricula that develop higher order systemic thinking skills for use in workforce training, K-12 education, and other venues.		All												

Climate Change Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes	
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility		
Enhance mutual aid and support among neighboring communities, counties, and regions to share, develop, and create capabilities, resources, and special assets.		Designed to mitigate risks and respond during and after extreme events. This strategy will include research, education, training, and continuing education, as well as a process to identify and share critical resources (e.g., listing of willing and trained medical personal, strategic location of special response equipment for easy deployment).	All	X				improve disaster resiliency, reduce community costs (e.g., municipal budget) for disaster mitigation, preparation and response, save lives and protect livelihoods, provide economic opportunity	●	●	●	●	●	●	1. Benefits all subject area, since each subject area relies upon local capacity and capabilities, and advancements in these capabilities can be used more broadly. 2. Benefits all 5 capitals; 3. Benefits all communities; 4. Feasible to initiate implementation immediately; 5. Consistent with Hazard Mitigation Plans for each county and New York State; 6. Unknown total cost (potentially high) but high potential to leverage other funding sources.	
	Develop research, education, training, and continuing education to solve local problems.		All													
	Develop processes to identify and share critical resources (e.g., listing of willing and trained medical personal, strategic location of special response equipment for easy deployment).		All													
Upgrade existing assets and modify municipal and business practices to better withstand extreme conditions.			All	X				economic development, improve disaster resiliency, reduce community costs (from mitigation rather than repair), saves lives and livelihoods	●	●	●	●	●	◐	1. Benefits all subject area, since each subject area relies upon local capacity and capabilities, and advancements in these capabilities can be used more broadly. 2. Benefits all 5 capitals; 3. Benefits all communities; 4. Feasible to initiate implementation immediately; 5. Consistent with Hazard Mitigation Plans for each county and New York State; 6. Unknown total cost (potentially high) but high potential to leverage other funding sources.	
	Develop research, training and deployment of multiple strategies ("hardening" as well as "softening"/breakaway/crumple zones) to upgrade existing assets.		All													
	Develop research, development and evaluation of innovative approaches to regenerate natural systems to improve the performance of built systems (e.g., restore wetlands as buffer zones during flooding).		All													
	Upgrade existing facilities (e.g., buildings, industrial facilities) to reduce resource use (e.g., energy, waste, materials, etc.)		All													
	Upgrade county E911 communication systems to ensure proper public safety response		All													
	Focus on on-site critical services that include energy production, water and wastewater (sewage) treatment, and solid waste treatment/processing (especially organic waste), as well as food, medical and emergency services.		All													
Create self-sufficient "places of refuge" in each community/ neighborhood for critical resources, shelter and aid under normal and extreme conditions.		The critical services may include energy production, water and wastewater (sewage) treatment, and solid waste treatment/processing (especially organic waste), as well as food, medical and emergency services (maybe also education/cultural).	All	X				If the critical services are provided under normal conditions, they can offset community/municipal costs and/or be sources of revenue, and these on-site services can save lives during extreme conditions. If these "places of refuge" are local historical/cultural centers, this strategy may also help preserve the sense of place for each community - and give these centers a new lease on life.	●	●	●	●	●	◐	1. Benefits all subject area, since developments for these "places of refuge" directly relates to each subject area, and can be used more broadly. 2. Benefits all 5 capitals; 3. Benefits all communities; 4. Feasible to initiate implementation immediately; 5. Consistent with Hazard Mitigation Plans for each county and New York State; 6. Unknown total cost (potentially high) but high potential to leverage other funding sources.	
	Enhance "places of refuge" in local historical/cultural centers to help preserve the sense of place for each community - and give these centers a new lease on life.		All													
	Link on-site services to the regional centralized systems (e.g., electricity grid) to offset community/municipal costs, and provide new sources of revenue.		All													
	Provide medical service, education/training, and other services in these "places of refuge" for day-to-day activities		All													
	Focus on on-site critical services that include energy production, water and wastewater (sewage) treatment, and solid waste treatment/processing (especially organic waste), as well as food, medical and emergency services		All													
	Enhance "places of refuge" in local historical/cultural centers to help preserve the sense of place for each community - and give these centers a new lease on life.		All													
	Link on-site services to the regional centralized systems (e.g., electricity grid) to offset community/municipal costs, and provide new sources of revenue.		All													
Provide medical service, education/training, and other services in these "places of refuge" for day-to-day activities		All														

Climate Change Strategies

<p>Create localized networks for critical services (e.g., local food sources, micro-grids for energy, water, sewage, solid waste treatment, district heating, etc.) to complement existing centralized systems (at a larger scale than the "places of refuge").</p>		<p>These localized networks can be created/deployed in rural as well as urban and suburban settlements .</p>	<p>All</p>	<p>X</p>				<p>improve disaster resiliency, provide new revenue sources and reduce environmental impacts</p>							<p>1. Benefits all subject area, since localized networks directly relates to each subject area, and can be used more broadly. 2. Benefits all 5 capitals; 3. Benefits all communities; 4. Feasible to initiate implementation immediately; 5. Consistent with Hazard Mitigation Plans for each county and New York State; 6. Unknown total cost (potentially high) but high potential to leverage other funding sources.</p>
	<p>Create/deploy localized networks in rural as well as urban and suburban settlements, using local inputs (e.g., manure from farms).</p>		<p>All</p>												
	<p>Develop and approve options for "islanding" these networks under extreme conditions to protect lives and livelihoods.</p>		<p>All</p>												
	<p>Develop market and financial mechanisms to use localized networks as a new revenue source for participants/providers (e.g., farmers)</p>		<p>All</p>												

Governance Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Promote the development of local and regional sustainability initiatives to serve as a dynamic means of supporting the goals of the Regional Sustainability Plan across all Subject Areas		The Finger Lakes Regional Sustainability Plan is intended as a means for improving the economic and environmental health, and quality of life of the region to achieve a more sustainable future. By embedding the Plan into the culture and gaining the support of local and regional officials, communities can establish the framework necessary to guide future planning and investment-related decisions aimed at sustainability. Additionally, the promotion and support of training programs for local officials is a means of providing a greater understanding of the importance of sustainability and increasing awareness of the adverse impacts of increasing greenhouse gas emissions. This can result in the development and updating of comprehensive plans and other long range planning documents that incorporate land use policies and other measures that promote sustainability.	All	X			NYSERDA, G/FLRPC, REDC, GTC, County Planning Departments, etc.	Improve regional planning and local efforts and decision making; cost reductions and government efficiency; resiliency, flexibility and ability to adapt to change; environmental protection; economic development	●	●	●	●	◐	●	This strategy has the potential to bring about measures and initiatives to benefit all subject areas. This strategy can also benefit all five capitals and multiple communities. It can be applied in communities and in every county in the region, and has benefits that extend beyond the region. Implementation could be achieved in less than 10 years as the notions and benefits of sustainability become more embedded in local governance structures. This strategy is consistent with regional planning, although not specifically mentioned. It could have low to medium order of magnitude costs and result in significant financial benefits.
	Increase participation in the Climate Smart Communities program	This program is a means of establishing a state and local partnership to enable communities to reduce greenhouse gas emissions, save taxpayer dollars and advance sustainable community goals for health and safety, economic vitality, energy independence and quality of life.	All	X											
	Incorporate sustainability measures into local and regional level planning documents, such as comprehensive plans, stormwater management plans, farmland and agricultural protection plans, watershed management plans, Comprehensive Economic Development Strategy (CEDS), etc.	Local planning is the foundation for land use and infrastructure investment decisions. Comprehensive plans and other long range planning documents provide vision and guidance for local officials and include recommendations and implementation strategies that can help drive decision making processes. Communities are encouraged to prepare and/or update their plans to incorporate policies and measures that support and promote sustainability to ensure an improved future for their communities.	All	X	X										
	Create municipal sustainability office at local and/or county level to provide stewardship over this plan.	To help local officials and the public understand and embrace the benefits of sustainability, and to make sustainability and the Finger Lakes Regional Sustainability Plan a mainstay in the region, it is important to provide proper tools and resources. Having regional or local entities to assist with this effort is one way to ensure success. Sustainability offices could function as a specialized element of local government to carry out the mission of the sustainability plan and help communities gain the knowledge and information required to develop better plans and make better decisions for their future.	All	X	X										
	Provide training and technical resources to municipal officials and local boards to promote more sustainable policies and decision making.		All	X	X										

Governance Strategies

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Encourage regional cooperation and coordination		Municipal cooperation and intermunicipal planning, particularly between towns and villages, can result in better decision making, cost savings and consistent land use policies that can impact all subject areas and capitals.	All	X			DOS, NYSEDA, GTC, G/FLRPC, County Planning Departments	Better coordination of regional planning efforts, cost reduction and government efficiency, resiliency, flexibility and ability to adapt to change, shared services, economic development	●	●	●	◐	◐	●	This strategy benefits land use and livability, materials/waste management, water management, economic development, and governance. This strategy also benefits all five capitals and has the potential to benefit multiple communities. It can be applied in communities and in every county in the region, and has benefits that extend beyond the region. Implementation may take more than nine years because governance structures make it difficult for communities to cooperate across municipal boundaries. This strategy is consistent with regional planning, although not specifically mentioned. It can have significant and immediate financial benefits and the return on investment can be significant.
	Evaluate the potential for regional revenue sharing	Utilize revenue sharing as a means of regional planning to steer development to the right places and defuse issues with home rule.	All	X											
	Encourage greater coordination between the Regional Economic Development Council and the Finger Lakes Regional Sustainability Plan	The regional sustainability plans should be acknowledged and incorporated into the decision making of the FLREDC. Future economic development decisions must take into consideration the importance of developing the region in a sustainable manner.	All	X											
	Incorporate sustainable approaches and policies into government systems to promote a stronger understanding of sustainability and bring about change to established systems	To achieve true sustainability, there is a need to promote change in established regional systems that support sprawl (e.g., county sewer districts). The incorporation of sustainable practices and policies will lead to better development, reduce infrastructure costs and investments, allow for better economic development and improve quality of life. Continuing unsustainable practices will only further disadvantage communities, constrain spending, adversely impact natural resources and use land in an impractical fashion.	All	X	X										
	Build intermunicipal relationships focused on mutual and sustainable improvements	Encourage municipal collaboration and relationship building to achieve consistent and sustainable land use planning across community boundaries that recognizes the intangible benefits gained from social, human, built and natural capitals. Its not just about return on investment (financial capital). The pressure to capture individual municipal revenue results in competition among communities and overdevelopment.	All	X	X										
	Fund development of local sustainability plans	Communities, institutions and businesses should be provided funding incentives to prepare their own plans to implement regional sustainability strategies on a local basis.	All	X	X										
	Encourage intermunicipal shared services agreements	Communities should evaluate opportunities to share and combine services through intermunicipal agreements to reduce costs (including conducting feasibility studies).	All	X	X										

Agriculture Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Support the continued development of an efficient and productive regional food system.			All	x				Increases exposure of regional food producers, processors, distributors, retailers, and customers to one another; increases the circulation of capital within the region; improves public health and food security; decreases vulnerability to external market forces.	●	●	●	●	●	●	<p>This strategy is recommended to begin immediately due to current needs and is expected to continue improving over the long-term.</p> <p>Subject Areas: Energy, Transportation, Land Use, Materials/Waste, Water, Economic Development, Ag/Forestry, Climate Change, Governance, GHG Emissions</p> <p>Capitals: Human, Social, Natural, Built/Manufactured, Financial</p> <p>Communities: Genesee, Livingston, Monroe, Ontario, Orleans, Seneca, Wayne, Wyoming, Yates</p> <p>Implementation Feasibility: Network either in place or emerging; several projects currently underway</p> <p>Planning efforts: FLREDC, G/FLRPC CEDS, AFT-NY, regional hazard mitigation plans</p> <p>Financial Feasibility: Low to medium life cycle cost; high potential to leverage USDA, NYS Ag & Markets, and local institutional funding; significant benefit early in strategy life cycle</p>
	Processing & Distribution: Support the development of a regional system that expands processing and distribution opportunities, and/or adding value to regional food products.		All	x											
	Food Security: Increase food security for individuals and households at risk of hunger.		All	x											
	Farm to Institution: Increase regional farms' sales to regional institutions (e.g. schools, hospitals)		All	x											
	CSA Support: Support the development and/or expansion of multi-farm networks of Community-Supported Agricultural operations.		All	x											
	Urban Agriculture: Support the development of urban agricultural projects in the City of Rochester.		Monroe	x											
	Farm to Table: Increase regional farms' direct sales to consumers.		All		x										
Increase adoption of distributed bio-energy production technologies to increase production of renewable energy from farm and forest products and product waste.			All	x				Increases energy production; reduces dependency on centralized grid; potential revenue source for producers; reduces GHG emissions through reduction of fossil fuel use.	●	●	●	●	●	●	<p>This strategy is recommended to begin in the near-term because of current deficiencies in the existing bioenergy production and is expected to continue for the long-term growth opportunity for the sector.</p> <p>Subject areas: Energy, Transportation, Land Use, Materials/Waste, Water, Economic Development, Ag/Forestry, Climate Change, Governance, GHG Emissions</p> <p>Capitals: Human, Social, Natural, Built/Manufactured, Financial</p> <p>Communities: Genesee, Livingston, Monroe, Ontario, Orleans, Seneca, Wayne, Wyoming, Yates</p> <p>Implementation Feasibility: Some technologies currently available and in use, with some degree of regional support network; others in R&D phase</p> <p>Planning efforts: FLREDC, G/FLRPC CEDS, NYS Climate Action Council</p> <p>Financial Feasibility: Start-up costs range from low to high order of magnitude; high potential to leverage EPA, USDA, NYSERDA, NY Ag & Markets, NYS ESD funding; significant benefits early in the strategy life cycle</p>
	Plug and Play: Advance the availability and affordability of scalable plug-and-play bio-energy production systems, and provide standards for selling excess power into the grid.		All	x											

Agriculture Strategies

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
	Purchase Agreements: Develop purchase agreements for the sale of bio-energy produced by the agricultural and forestry sectors to the power grid.		All	x											
	Farm Energy Planning: Assist farm operators in analyzing energy demand, as well as opportunities for efficiency and potential energy production capacity.		All	x											
	Community Generation & Distribution: Establish local policy framework and incentives for community-scale bio-energy generation and distribution		All	x											
	Energy Research: Complete longer term study on waste profiles that are best suited for the use of anaerobic digestion, biomass conversion, biodiesel production, etc.; complete cost-benefit analysis of the technologies mentioned above; develop decision-making and technical assistance tools that can engage landowners; .		All	x											
	Commercialization Partners: Improve partnerships between the agricultural sector and educational, financial, and economic development institutions to commercialize sustainable technologies		All	x											
Reduce the conversion of quality farmland.			All	x			Maintains carbon sequestration capacity; reduces impairment of water quality; maintains sector-wide economy; maintains community character and regional identity.	●	●	●	●	●	●	◐	<p>This strategy is recommended for short, mid, and long-term action because it represents both an immediate need and a continual state.</p> <p>Subject Areas: Transportation, Land Use, Economic Development, Ag/Forestry, Climate Change, Governance</p> <p>Capitals: Human, Social, Natural, Built/Manufactured, Financial</p> <p>Communities: Genesee, Livingston, Monroe, Ontario, Orleans, Seneca, Wayne, Wyoming, Yates</p> <p>Implementation Feasibility: Most support network either in place or emerging; regulatory support not as strong as in previous years, but network and institutional knowledge remains</p> <p>Planning efforts: FLREDC, G/FLRPC CEDS, NYS Climate Action Council, regional hazard mitigation plans</p> <p>Financial Feasibility: Low order of magnitude costs; limited potential to leverage other potential funding sources at present; benefit is delayed or ramps up over life of strategy</p>
	Land Use Regulations: Align local land use regulations with the functional and financial needs of farms		All		x										
	Farmland Protection Plans: Support the creation and implementation of municipal farmland protection plans.		All	x											
	Development Rights: Improve regulatory context for the purchase, lease, and/or transfer of development rights, and promote and implement conservation easements and incentive zoning.		All	x											
	Grassland Utilization: Increase use of underutilized grasslands for livestock production.		All	x											
	Land Access: Facilitate farmer-landowner "matching".		All	x											
	Succession Planning: Expand or create opportunities to engage existing and new farmers in succession planning efforts.		All	x											

Agriculture Strategies

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Support farm-scale diversity of product types, both in-season and across seasons, and support the establishment and growth of a diversity of operations with regard to size, market, and operation type.			All	x				Increases both operational and sector resilience; increases economic opportunities for growers, distributors, and retailers; increases access for underserved populations; increases market for regionally-sourced products.	●	◐	●	●	●	◐	<p>This strategy is recommended for short, mid, and long-term action due to the nature of the strategy. Certain aspects of sector-scale diversity (e.g. the support of small and mid-sized operations) represent an immediate need; others (e.g. farm-scale diversity and specialty products) are not immediately pressing but would benefit the long-term resilience of the sector.</p> <p>Subject Areas: Energy, Transportation, Land Use, Materials/Waste, Water, Economic Development, Ag/Forestry, Climate Change, Governance, GHG Emissions</p> <p>Capitals: Human, Social, Natural, Financial</p> <p>Communities: Genesee, Livingston, Monroe, Ontario, Orleans, Seneca, Wayne, Wyoming, Yates</p> <p>Implementation Feasibility: Network either in place or emerging</p> <p>Planning efforts: FLREDC, G/FLRPC CEDS, NYS Climate Action Council</p> <p>Financial Feasibility: Primarily low to moderate order of magnitude costs for most substrategies; unknown potential for leveraging outside funding sources; benefits distributed evenly across the strategy life cycle</p>
	Diversity Management Models: Develop models to assist in the management of farm-scale diversity for small and medium-sized operations.		All		x										
	Specialty Products: Strengthen opportunities for producing, marketing, and exporting specialty agricultural products.		All		x										
	Environmental Markets & Incentives: Support the development of environmental markets and incentives that are aligned with both the functional and financial needs of farms		All		x										
	Carbon Sequestration: Research carbon sequestration potential of regional agricultural sector in advance of potential establishment of credit trading markets.		All	x											
	Water Quality: Research water quality improvement potential of regional agricultural sector in advance of potential establishment of credit trading markets		All	x											
Educate the non-farming community about the economic, environmental, and social impact that the agricultural sector has on the region.			All	x				Improves the public discourse regarding the future of farming; educates non-farmers about the long-term consequences of land use decisions; increases the viability of new operations.	◐	◐	●	●	●	●	<p>This strategy is recommended to begin in the near-term with expectations that improvements in the public's knowledge of the sector may decrease long-term needs for outreach.</p> <p>Subject Areas: Land Use, Economic Development, Ag/Forestry, Governance</p> <p>Capitals: Human, Social, Natural, Financial</p> <p>Communities: Genesee, Livingston, Monroe, Ontario, Orleans, Seneca, Wayne, Wyoming, Yates</p> <p>Implementation Feasibility: Network either in place or emerging; several projects currently underway</p> <p>Planning efforts: FLREDC, G/FLRPC CEDS, AFT-NY</p> <p>Financial Feasibility: Low life cycle cost; high potential to leverage other USDA, SBA, DOL, NYS ESD, NYS Ag & Markets funding</p>
	New Farmer Networking: Align a network for direct and specific educational opportunities, where new farmers have access to experienced producers, lenders, employers, etc.		All	x											
	Training Program: Establish a new farmer training program, similar to NOFA-NY's Beginning Farmer, Apprentice, and Mentorship programs.		All	x											

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	Economic Impact: Support efforts to document the economic impact of agriculture and forestry throughout the region.		All	x											
	Small-Farm Services: Expand access to service programs specifically oriented toward small farms.		All	x											
	Regional Food Identity: Create or expand opportunities to build a regional food "identity" focused on the Finger Lakes region.		All		x										
	Agriculture and the Arts: Facilitate direct relationships between the agricultural and arts communities (e.g. craftspeople, literary, visual arts, etc.) to incorporate food-related issues in their work.		All		x										
Align workforce development efforts with sector needs.			All	x			Supports economic sustainability of the entire agricultural sector; creates employment opportunities; increases diversity of farm sizes.								<p>This strategy is recommended to be implemented within the near-term because workforce development should represent continual improvement in the quality and size of the available workforce. It should be noted that while the size of the required workforce over the long-term is uncertain, the quality of available workers should continue to increase.</p> <p>Subject Areas: Land Use, Economic Development, Ag/Forestry, Governance</p> <p>Capitals: Human, Social, Financial</p> <p>Communities: Genesee, Livingston, Monroe, Ontario, Orleans, Seneca, Wayne, Wyoming, Yates</p> <p>Implementation Feasibility: Network either in place or emerging</p> <p>Planning efforts: FLREDC, G/FLRPC CEDS</p> <p>Financial Feasibility: Unknown order of magnitude costs; moderate potential to leverage USDA or DOL funding; significant benefit early in the strategy cycle</p>
	New Farmer Attraction: Facilitate the entry of new farmers into the marketplace.		All	x											
	Business Retention: Support the development of Agribusiness Retention, Expansion, and Attraction plans at the local, county, and regional level.		All	x											
	Guest Workers: Improve the federal Guest Worker program.		All		x										

Forestry Strategies

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Support efforts to increase equitable forest recreation opportunities and urban forestry/green infrastructure initiatives.			All	x				Increases access to recreation, Reduces environmental impact of stormwater and wastewater, Expands access to quality urban forest resources	●	●	●	●	●	◐	Subject Areas: Energy, Economic Development, Water, Ag/Forestry, Climate Change, GHG Emissions Capitals: Human, Natural, Social, Built, Financial Communities: All Counties Implementation Feasibility: Technology in Use Planning Efforts: NYSDEC Forest Resources Assessment and Strategy, and general consensus of advantages of green infrastructure/ recreation Financial Feasibility: Established funding sources for green infrastructure, less for forest recreation access
	Urban forestry networking: Encourage networking opportunities for community tree boards.		All	x											
	Promote community adoption of the four standards to become a Tree City USA		All	x											
	Standardized urban forestry data: Encourage use and sharing of a standardized community tree inventory database.		All		x										
Support watershed, riparian, shoreline, and habitat protection and restoration efforts to increase resiliency and diversity of the native species ecosystems, delicate watersheds, and critical habitats.			All	x				Preserves environmentally fragile areas, Helps protect against drinkign water pollution, Strengthens forest ecosystem against threats	◐	◐	●	●	●	●	Subject Areas: Water, Ag/Forestry, Climate Change, GHG Emissions Capitals: Human, Natural, Built, Financial Communities: All Counties Implementation Feasibility: Technology in Use Planning Efforts: NYSDEC Forest Resources Assessment and Strategy, and general consensus of advantages of green infrastructure/ recreation Financial Feasibility: Established funding sources
	Connectivity: Encourage stronger landscape connectivity and forest management rehabilitation practices that can support adaptation and increase resilience of individual species and nature systems at the landscape level (2500 acre units).		All		x										
	Biological threats: Continue to support programs at all levels of government to combat invasive pests and diseases, like the Emerald Ash Borer.		All	x											
	Fund Action Plans: Provide near-term funding for NYSDEC Forest Resource Assessment and Wildlife Action Plans to practice adaptive management for climate adaptation and target early responses to major stressors on forest related to climate change.		All	x											
	Non-biological threats: Support and improve wildfire management services.		All	x											
	Provide assistance for rural fire departments to make application to programs such as Federal Excess Personal Property program to obtain better equipment and training to reduce the occurrence of wildfires		All	x											

Forestry Strategies

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	Encourage landowners to participate in NY CREP and similar programs to receive compensation for protecting/restoring natural features		All	x											
	Water resource management: Promote consolidation of water resource management agencies from county and municipal into watershed units of governance, funded by water purveyors.		All		x										
	Plant trees: Plant many, many more trees to absorb GHG, create oxygen, create habitat, and help moderate windsotrms, erosion and increasing temperatures.		All	x	x	x									
Educate the general public, landowners/industry professionals, and decision-makers regarding the relationships between watershed land uses, forest management, water quality protection and rural economic viability, and forest sustainability issues.			All	x			Increases awareness of the value of forest resources and interconnectivity of the environment; Reduces environmental impact of unsustainable forest management and silviculture; Helps cultivate an ethic of value for forest resources among citizens	●	◐	●	●	◐	◐	Subject Areas: Energy, Transportation, Land Use, Materials/Waste, Water, Economic Development, Ag/Forestry, Climate Change, GHG Emissions Capitals: Human, Natural, Built, Financial Communities: All Counties Implementation Feasibility: Established support network of agencies/organizations offering information regarding sustainable practices Planning Efforts: NYSDEC Forest Resource Assessment and Strategy Financial Feasibility: High Start-up investment, but could lead to benefit in near term after education of issues begins	
	Best Management Practices: Increase the use of silvicultural BMPs through direct financial incentives to landowners		All	x											
	Continue to support and encourage participation by SWCD in the NYSDEC/NRCS EQIP Forestry Initiative		All	x											
	Support and partner with advocacy organizations that provide outreach and education on forest and land management issues	e.g., The Nature Conservancy Central & Western NY, Rochester Regional Group of the Sierra Club	All	x											
	Support the Profession: Support retention and recruitment of sustainable timber harvesters		All		x										
	Fund tuition and re-imbursement of two days of missed work so that loggers in the Region can attend two logger training courses: Game of Logging 1 and Forest Ecology and Silviculture.		All		x										
	Environmental Awareness: Increase consideration of environmental issues at all levels of economic decision-making		All	x											
	Smart Growth and Sustainable Development: Phase out subsidies for development patterns and production methods that are environmentally harmful and socially inequitable in favor of supporting systems and policies.		All		x										

Forestry Strategies

Broad Strategy	Sub-Strategy/Project Idea	Strategy Description	Strategy Applies to which County(ies)	Relative Time Frame of Strategy			Agency, Company, Organization Responsible for Strategy	Anticipated Benefits	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)			Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Encourage the valuation of ecological services provided by regional forest resources.			All	x				Provides compensation for environmental benefits to owners of forest resources; Has potential to reduce GHG emissions	●	◐	●	◐	◐	◐	<p>Subject Areas: Energy, Transportation, Land Use, Materials/Waste, Water, Economic Development, Ag/Forestry, Climate Change, GHG Emissions</p> <p>Capitals: Human, Natural, Built, Financial</p> <p>Communities: All Counties</p> <p>Implementation Feasibility: Techniques not in use in region in this specific way, but could be adapted from other environmental markets such as wetland mitigation</p> <p>Planning Efforts: NYSDEC Forest Resource Assessment and Strategy</p> <p>Financial Feasibility: High Start-up investment</p>
	Forestry Carbon Offset Program: Encourage forestry carbon offset programs (with minimal transaction and compliance costs), with eligible activities including avoided clearing, sustainable management, and reforestation		All	x											
	Encourage landowner participation in the NYS Real Property Tax Law 480-a Program and advocate for changes to forestry tax laws to encourage stewardship		All	x											
	Carbon Measurement: Expand and refine standardized methods of quantifying carbon flow in and out of forest resource carbon pools (living biomass, dead wood, soils, and harvested products) to allow for expanded, meaningful participation in carbon offset markets.		All	x											
Forestry Product Markets: Support policies that increase availability, diversity, and economic viability of markets for sustainable regional forest products and services.			All	x				Provides incentive for sustainable and high quality timber production; Contributes to economic development in rural areas; reduces environmental harm of unsustainable forest management methods	◐	◐	●	◐	◐	◐	<p>Subject Areas: Energy, Economic Development, Water, Ag/Forestry, Climate Change, GHG Emissions</p> <p>Capitals: Human, Natural, Financial</p> <p>Communities: All Counties</p> <p>Implementation Feasibility: Established support network of agencies/organizations, but could organize together for more effectiveness</p> <p>Planning Efforts: NYSDEC Forest Resource Assessment and Strategy</p> <p>Financial Feasibility: High Start-up investment, but could show benefit as soon as employment benefits are seen</p>
	Lumber Mill Certification: Provide local training to develop lumber grading cooperatives so that local lumber mills are able to obtain certification that their products are Grade 2 or better, which allows local lumber to be utilized in compliance with the NYS Building Code, modeled after Local-Use Dimension Lumber Grading program in Wisconsin. This would provide a market for, and encourage production of high quality timber.		All	x											
	Forestry Revenue Re-investment: Dedicate regional revenue streams from sustainably harvested forest products back into programs supporting forest protection and sustainable management within the region.		All		x										
	Equitable economic opportunity: Provide equitable economic opportunity in the regional forestry sector.		All		x										

APPENDIX G: SUBJECT AREA SPECIFIC PROJECTS



Energy Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
							Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Develop and implement micro-grid technology that integrates the advantages of independent local production and distribution systems with the storage and distribution capacity of a large grid.	Wayne EDC Strategic Plan, Wayne Industrial Sustainability Project (WISP)	A county initiative designed to promote sustainable economic growth through utilization of renewable energy resources like wind, geothermal, solar voltaic, etc.through innovation and improved efficiencies	Wayne	Wyane County	X		●	●	●	●	●	●	Subject Areas Benefitted: Reducing our regional dependence on traditional energy sources impacts all subject areas of sustainability in a positive and collaborative way. Capitals Benefitted: The 5 capitals of sustainability are all enriched by reducing our dependence on traditional (fossil) fuels. Communities Benefitted: All communiteis within a region benefit directly or indirectly from reducing our dependence on traditional (fossil) fuels
Develop local and regional policies and plans that accommodate incentives and educational programs to promote energy conservation and efficiency.	Energy Star Programs	A government-backed program helping businesses and individuals protect the environment through superior energy efficiency.	All 9 Counties	NYSERDA, NYS DEC, US DOE, US EPA	X		●	●	●	●	●	●	Subject Areas Benefitted: Energy Conservation impacts all subject areas of sustainability in a positive and collaborative way. Capitals Benefitted: The 5 capitals of sustainability are all enriched by Energy Conservation; Communities Benefitted: All communiteis within a region benefit directly or indirectly from Energy Conservation
Develop local and regional policies and plans that accommodate incentives and educational programs to promote energy conservation and efficiency.	Climate Smart Communities	A state-local partnership designed to advance community goals for health and safety, economic vitality, energy independence and quality of life.	All 9 Counties	NYSERDA, NYS DEC, US DOE, US EPA	X		●	●	●	●	●	●	Subject Areas Benefitted: Energy Conservation impacts all subject areas of sustainability in a positive and collaborative way. Capitals Benefitted: The 5 capitals of sustainability are all enriched by Energy Conservation; Communities Benefitted: All communiteis within a region benefit directly or indirectly from Energy Conservation
Develop local and regional policies and plans that accommodate incentives and educational programs to promote energy conservation and efficiency.	EDGE Program	The replacement for the Energy Smart Communities program is designed to bring community resources together in an effort to increase economic and environmental sustainability	All 9 Counties	NYSERDA, NYS DEC, US DOE, US EPA	X		●	●	●	●	●	●	Subject Areas Benefitted: Energy Conservation impacts all subject areas of sustainability in a positive and collaborative way. Capitals Benefitted: The 5 capitals of sustainability are all enriched by Energy Conservation; Communities Benefitted: All communiteis within a region benefit directly or indirectly from Energy Conservation
Develop local and regional policies and plans that accommodate incentives and educational programs to promote energy conservation and efficiency.	Energy Efficiency Conservation Block Grant	A US Dept of Energy grant program intended to assist U.S. cities, counties, states, territories, and Indian tribes to develop, promote, implement, and manage energy efficiency and conservation projects and programs	All 9 Counties	NYSERDA, NYS DEC, US DOE, US EPA	X		●	●	●	●	●	●	Subject Areas Benefitted: Energy Conservation impacts all subject areas of sustainability in a positive and collaborative way. Capitals Benefitted: The 5 capitals of sustainability are all enriched by Energy Conservation; Communities Benefitted: All communiteis within a region benefit directly or indirectly from Energy Conservation
Develop local and regional policies and plans that accommodate incentives and educational programs to promote energy conservation and efficiency.	NYSERDA Existing Facilities Program	Custom incentives for larger-scale electric, natural gas, energy storage, demand response and other projects	All 9 Counties	NYSERDA	X		●	●	●	●	●	●	Subject Areas Benefitted: Energy Conservation impacts all subject areas of sustainability in a positive and collaborative way. Capitals Benefitted: The 5 capitals of sustainability are all enriched by Energy Conservation; Communities Benefitted: All communiteis within a region benefit directly or indirectly from Energy Conservation
Develop local and regional policies and plans that accommodate incentives and educational programs to promote energy conservation and efficiency.	RPI Daylight Dividends	Established to build market demand for daylighting as a means of improving indoor environmental quality; to overcome technological barriers to effectively reap the energy savings of daylight	All 9 Counties	Lighting Research Center, NYSERDA	X		●	●	●	●	●	●	Subject Areas Benefitted: Energy Conservation impacts all subject areas of sustainability in a positive and collaborative way. Capitals Benefitted: The 5 capitals of sustainability are all enriched by Energy Conservation; Communities Benefitted: All communiteis within a region benefit directly or indirectly from Energy Conservation
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Compressed Matural Gas, One Source	Conversion of gasoline & diesel vehicles to run on CNG. This is an REDC Transformative Priority Project.	All 9 Counties	One Source	X		●	●	●	●	●	●	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. Low/medium order of magnitude and life cycle cost with significant benefit early in life cycle.
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Mill Seat Lanfill	Expansion of existing methane fueled power plant to power a new 130 acre development. This is an REDC Additional Priority Project.	Monroe & surrounding Counties	Mill Seat Waste to Energy	X		●	●	●	●	●	●	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. Low/medium order of magnitude and life cycle cost with significant benefit early in life cycle.
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Seneca AgBio Green Energy Park	Creation of a cluster of companies that convert agricultural byproducts and other waste into bio-fuels and bio-materials. This is an REDC Transformative Priority Project.	All 9 Counties	Seneca Bio-Energy; Akron Ag Products; Novera Feeds; Upstate Oil Recyclers	X		●	●	●	●	●	●	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. Low/medium order of magnitude and life cycle cost with significant benefit early in life cycle.
Develop, produce, and employ renewable energy (wind, hydroelectric, solar, and geothermal).	Renewable Energy Generation Inventory	Regional municipalities and subdivisions (fire, school districts, etc.) conduct a renewable energy generation inventory that details potential for wind, solar, biomass or other electricity production opportunities with the goal to create a list of potential projects, including information on costs and MW production.					●	●	●	●	●	●	Subject Areas benefited: Energy, Transportation, Materials/Waste Management, Water Management, Economic Development, Agriculture & Forestry, Climate Change Adaptation, Governance, GHG Emissions. Benefits all Capitals. Benefits multiple communities. Short implementation timeframe with technology available. Consistent with local planning efforts, low/medium order of magnitude and life cycle cost.
Upgrade the existing conventional energy production and distribution in a sustainable way.	Eastman Business Park	Development of new energy storage technologies. This is an REDC Additional Priority Project.	All 9 Counties	NOHMs Technologies	X		●	●	●	●	●	●	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. Low/medium order of magnitude and life cycle cost with significant benefit early in life cycle.
Upgrade the existing conventional energy production and distribution in a sustainable way.	Eastman Business Park	Production of materials used for energy storage devices. This is an REDC Additional Priority Project.	All 9 Counties	Graphene Devices	X		●	●	●	●	●	●	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. Low/medium order of magnitude and life cycle cost with significant benefit early in life cycle.
Develop local and regional policies and plans that accommodate incentives and educational programs to promote energy conservation and efficiency.	Net Metering Law	A NYS law which permits eligible customer-generators to designate net metering credits from equipment located on property which they own or lease to any other meter	All 9 Counties	NYS Public Service Commission	X		●	●	●	●	●	◐	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. High order of magnitude and life cycle cost but high potential to leverage other funding sources. Benefits distributed evenly across life cycle.
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Alternative Fuel Vehicle Tax Incentive & Rate Reduction	Sales and use tax exemption for operating a motor vehicle engine uwing E85, compressed natural gas or hydrogen fuel.	All 9 Counties	NYS Dept. of Taxation and Finance, NYSERDA	X		●	●	●	●	●	◐	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. High order of magnitude and life cycle cost but high potential to leverage other funding sources. Benefits distributed evenly across life cycle.
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Bio-Fuel Production Tax Credit	A state tax credit for the production of bui-diesel or ethanol fuel made avaialble for sale in NYS	All 9 Counties	GFLRPC	X		●	●	●	●	●	◐	Subject Areas Benefitted: Responsible Alternative Energy impacts all subject areas of sustainability in a positive and collaborative way. Capitals Benefitted: The 5 capitals of sustainability are all enriched by Alternative Energy. Communities Benefitted: All communiteis within a region can benefit from Alternative Energy
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Bio-Fuel Station Ininitave Program	Intended to increase the number of retail E85 and B20 Biodiesel service stations selling these fuels to the general public in New York State through a comprehensive approach	All 9 Counties	NYS Dept. of Taxation and Finance, NYSERDA	X		●	●	●	●	●	●	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. Low/medium order of magnitude and life cycle cost with significant benefit early in life cycle.
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Epiphergy	Conversion of expired, leftover or non-consumable food products into Bio-Fuel	Monroe & surrounding Counties	Epifergy	X		●	●	●	●	●	●	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. Low/medium order of magnitude and life cycle cost with significant benefit early in life cycle.
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Heavy Duty Alternative Fuel and Advanced Vehicle Purchase Vouchers	An incentives for alternative fuel trucks, buses and diesel emission controls.	All 9 Counties	NYS Dept. of Taxation and Finance, NYSERDA	X		●	●	●	●	●	◐	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. High order of magnitude and life cycle cost but high potential to leverage other funding sources. Benefits distributed evenly across life cycle.

Energy Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
							Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Sweetwater Energy	Conversion of crops and wood waste (cellulosic material) to create Bio-Fuels and Feedstock	All 9 Counties	Sweetwater Energy	X		●	●	●	●	●	●	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. Low/medium order of magnitude and life cycle cost with significant benefit early in life cycle.
Develop, produce, and employ renewable energy (wind, hydroelectric, solar, and geothermal).	ARRA	The American Reinvestment & Recovery Act, which has funded over \$58B in energy related programs & projects since 2009	All 9 Counties	Geothermal Exchange Organization, American Groundwater Trust	X		●	●	●	●	●	◐	Benefits all Subject Areas, all Capitals, and Multiple Communities. Short implementation timeframe with technology available and support network established. Generally consistent with other planning efforts. High order of magnitude and life cycle cost but high potential to leverage other funding sources. Benefits distributed evenly across life cycle.
Develop, produce, and employ renewable energy (wind, hydroelectric, solar, and geothermal).	National Renewable Energy Laboratory	The only federal laboratory dedicated to the research, development, commercialization and deployment of renewable energy and energy efficiency	All 9 Counties	US DOE	X		◐	●	●	●	●	●	Subject Areas Benefitted: Energy Efficiency impacts all subject areas of sustainability in a positive and collaborative way. Capitals Benefitted: The 5 capitals of sustainability are all enriched by Energy Efficiency Communities Benefitted: All communities within a region benefit from Energy Efficiency
Develop local and regional policies and plans that accommodate incentives and educational programs to promote energy conservation and efficiency.	Acceleration of Renewable Energy Technology Adoption	NYS P2I research and development project for using agriculture and food waste in the production of methane (anaerobic digestion), ethanol (fermentation) or biodiesel (transesterification).					◐	◐	●	●	●	◐	Subject Areas benefited: Energy, Materials/Waste Management, Economic Development, Agriculture & Forestry, Climate Change Adaptation, GHG Emissions. Capitals benefited: Natural, Built, Financial. Benefits multiple communities. Short implementation timeframe with technology in development. Consistent with planning efforts. High order of magnitude life cycle cost but high potential to leverage other funding sources.
Develop local and regional policies and plans that accommodate incentives and educational programs to promote energy conservation and efficiency.	Finger Lakes Food Cluster Energy Integration Challenge	NYS P2I research and education initiative to holistically and systemically evaluate the best options for reducing the energy demand of food processors while evaluating alternative energy production, closed-loop and integrated energy systems.					◐	◐	●	●	●	◐	Subject Areas benefited: Energy, Materials/Waste Management, Economic Development, Agriculture & Forestry, Climate Change Adaptation, GHG Emissions. Capitals benefited: Natural, Built, Financial. Benefits multiple communities. Short implementation timeframe with technology in development. Consistent with planning efforts. High order of magnitude life cycle cost but high potential to leverage other funding sources.
Develop local and regional policies and plans that accommodate incentives and educational programs to promote energy conservation and efficiency.	Genesee Community Digester Project	Planning and engineering analysis for the development of a large digester, or multiple digesters, that would accept animal waste from multiple farms while combining it with the waste from local yogurt, cheese and food manufactures as well as other food waste from the region. (Genesee County Comprehensive Plan)					◐	◐	●	●	●	◐	Subject Areas benefited: Energy, Materials/Waste Management, Economic Development, Agriculture & Forestry, Climate Change Adaptation, GHG Emissions. Capitals benefited: Natural, Built, Financial. Benefits multiple communities. Short implementation timeframe with technology in development. Consistent with planning efforts. High order of magnitude life cycle cost but high potential to leverage other funding sources.
Develop, produce, and employ renewable energy (wind, hydroelectric, solar, and geothermal).	Livonia Library Green Elements	The Town of Livonia has a desire to expand the public library to accommodate the growing need for community educational space, improved accessibility for the community, and improved energy efficiency in municipal space. This project is a request to assist with adding energy efficient elements to the design and construction of the library space, providing long term energy cost savings, and providing a reduction in the Town’s carbon footprint.					◐	●	○	●	●	●	Subject Areas benefited: Energy, Economic Development, Climate Change Adaptation, and Governance. Benefits all Capitals. Benefits only Livonia and surroundings. Short implementation timeframe, consistent with local planning efforts, and low/medium order of magnitude and life cycle cost.
Develop, produce, and employ renewable energy (wind, hydroelectric, solar, and geothermal).	Municipal Energy Park - Livonia, NY - Study Phase	The Town of Livonia has a desire to study the feasibility of creating a municipally-owned and operated energy park. This park could be established at an existing municipally-owned parcel, potentially on school property, or on a parcel of land to be acquired. The energy park could include the following: Sustainable energy production such as geothermal, solar, wind could be incorporated. The energy created would be harnessed and put back into a community grid for residential, municipal and business use, reducing energy ; Educational elements – kiosks throughout park showing technology being utilized, school programs based on tracking the energy produced/used by community and how that impacts the Green House Gas emissions of the town/county/region; Community garden that allows membership, community involvement, organic farming practices, etc.					◐	●	○	●	●	●	Subject Areas benefited: Energy, Economic Development, Climate Change Adaptation, and Governance. Benefits all Capitals. Benefits only Livonia and surroundings. Short implementation timeframe, consistent with local planning efforts, and low/medium order of magnitude and life cycle cost.
Develop, produce, and employ renewable energy (wind, hydroelectric, solar, and geothermal).	Municipal Energy Park - Livonia, NY- Implementation Phase	The Town of Livonia has a desire to create a municipally-owned and operated energy park. This park could be established at an existing municipally-owned parcel, potentially on school property, or on a parcel of land to be acquired. The energy park could include the following: Sustainable energy production such as geothermal, solar, wind could be incorporated. The energy created would be harnessed and put back into a community grid for residential, municipal and business use, reducing energy ; Educational elements – kiosks throughout park showing technology being utilized, school programs based on tracking the energy produced/used by community and how that impacts the Green House Gas emissions of the town/county/region; Community garden that allows membership, community involvement, organic farming practices, etc. This project would look to fund elements of the project that the previous feasibility plan identifies as requiring seed money. Livonia’s Energy Park could serve as a pilot project for other communities within the region, by providing “lessons learned”, information on start up and operation costs, and how the park is being integrated into the educational community.					◐	●	○	●	●	●	Subject Areas benefited: Energy, Economic Development, Climate Change Adaptation, and Governance. Benefits all Capitals. Benefits only Livonia and surroundings. Short implementation timeframe, consistent with local planning efforts, and low/medium order of magnitude and life cycle cost.
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Regional Household Energy Audit Clearinghouse	Partnership with academic institutions to have engineering students conduct or verify energy audits and provide homeowners with a list of recommended energy efficiency projects.					◐	◐	●	●	○	●	Subject Areas benefited: Energy, Economic Development, Climate Change Adaptation, GHG Emissions. Capitals benefited: Human, Natural, Built, Financial. Benefits multiple communities, short implementation timeframe with technology available. Unknown alignment with other planning efforts. Low/medium order of magnitude life cycle cost.
Develop, produce, and employ alternative energy (bio-energy, waste to energy).	Genesee County Airport Terminal/ Hangar Replacement Project	Replacement of facilities to relocate them out of the primary surface and address poor energy performance. Facilities will be designed meet a LEED Silver standard. (Genesee County Comprehensive Plan, FAA Airport Improvement Program)					◐	◐	○	●	●	◐	Subject Areas benefited: Energy, Transportation, Economic Development, Climate Change Adaptation, GHG Emissions. Capitals benefited: Natural, Built, Financial. Benefits only Genesee County. Consistent with local planning efforts. High order of magnitude cost.
Develop, produce, and employ renewable energy (wind, hydroelectric, solar, and geothermal).	Batavia Community Hydroelectric Microgrid	Provide renewable electricity to fire department and ice arena, creating a self-sufficient “place of refuge.”					◐	●	○	●	◐	◐	Subject Areas benefited: Energy, Land Use & Livable Communities, Economic Development, Climate Change Adaptation, GHG Emissions. Benefits all Capitals. Benefits only Batavia and surroundings. Short implementation timeframe with technology available. Consistent with local planning efforts. High order of magnitude and life cycle costs but high potential to leverage other funding sources.
Develop, produce, and employ renewable energy (wind, hydroelectric, solar, and geothermal).	Emerson St. Landfill Solar Power Purchase Agreement Project	Investigate the requirements for siting a large (2 MW) solar PV generating facility on a parcel within the City of Rochester’s former Emerson St. Landfill. Upon completion, the City of Rochester would enter into a power purchase agreement (PPA) with a private vendor for the purchase of the power generated by the system.					◐	◐	○	●	●	◐	Subject Areas benefited: Energy, Land Use & Livable Communities, Economic Development, Climate Change Adaptation, GHG Emissions. Capitals benefited: Human, Natural, Built, Financial. Benefits only City of Rochester. Short implementation timeframe with technology available. Consistent with local planning efforts. High order of magnitude and life cycle cost but high potential to leverage other funding sources.

Transportation Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Alternative modes	Continue to support the Active Transportation Summit	The Active Transportation Summit is an opportunity to educate, promote and encourage active transportation in the region	All	x								●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: all Communities Benefited: all
Alternative modes	Increase marketing & promotion for reeasyride.org	Maximize the use of existing alternatives to the single-occupancy vehicle - educate the public on the Greater Rochester Regional Commuter Choice Program - roceasyride.org	All	x						GTC LRTP		●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, GHG emissions Capitals Benefited: all Communities Benefited: all including other regions
Alternative modes	Update GTC Regional Trails Initiative	Last updated was conducted in 2004 - this document focuses on filling gaps and increasing connections to the core trails in the region	All	x						GTC LRTP		●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, GHG emissions Capitals Benefited: all Communities Benefited: all including other regions
Livability corridors	Support Main Street revitalization projects	Support Main Street revitalization projects that will emphasize local community engagement within their business attraction & revitalization efforts as well promoting center-based development	All	x				Noted in 2012 Comprehensive Econ Dev Strategy, FLREDC Strategic Plan	Emphasize local community engagement within their business attraction & revitalization efforts as well promoting center-based development	Noted in 2012 Comprehensive Econ Dev Strategy, FLREDC Strategic Plan		●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, water management, economic development, agricultural & forestry, GHG emissions Capitals Benefited: all Communities Benefited: all
Alternative modes/economic asset	Lyons to Port Byron Canalway Trail	Extend Erie Canalway Trail for 30-miles between towns of Lyons & Port Byron through the Montezuma National Wildlife Refuge	Wayne	x					close a gap in the trail system, better connections, economic development			●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: all Communities Benefited: Wayne County, other regions
Alternative modes/economic asset	Canandaigua Lake Water Trail	Construct a recreation trail that highlights the natural resources of Canandaigua Lake & will include access points, signage and waterway connections	Ontario	x					close a gap in the trail system, better connections, economic development			●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: all Communities Benefited: Ontario & Yates County
Alternative modes	Silver Lake Trail	Add a bike path around Silver Lake in Wyoming Co and connect to Letchworth State Park	Wyoming, Livingston, all	x					close a gap in the trail system, better connections, economic development			●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: human, natural, financial Communities Benefited: all
Alternative modes	Complete a Finger Lakes Regional trail & greenway system of interconnected multi-use trails as a component of a statewide trail network	Complete a Finger Lakes Regional trail & greenway system of interconnected multi-use trails as a component of a statewide trail network	All			x						●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: human, social, natural, financial Communities Benefited: all including other regions
Existing system	Replace the Portage Bridge on NS's Southern Tier rail line	Replace the Portage Bridge on NS's Southern Tier rail line to eliminate a major weight & speed restriction	Wyoming, Livingston, all	x			\$39M	Noted in Freight & Goods Movement plan	Rail agencies/companies, NYSDOT, USDOT	Encourage freight via rail, economic development	TIGER III grant application/Freight & Goods Movement plan, GTC LRTP 2035, FLREDC Strategic Plan	●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: all Communities Benefited: all
Leverage assets/economic development	Lyons Freight Village	Multi-modal, multi-business facility that will allow regional businesses to utilize the most cost effective transportation option for importing or exporting product - truck, shortline rail, Class 1 rail or canal barge.	Wayne, Monroe, Ontario, Seneca, yates, Cayuga, Oswego	x			\$7-18M	Noted in 2012 Comprehensive Econ Dev Strategy	Finger Lakes Rail, Norfolk Southern, CSX, Port of Oswego, Wayne, Ontario, Seneca IDAs, TFC, ESD, Canal Corp, NYSDOT, Federal Transportation	Reduced GHG, improved transportation efficiencies, multi-modal project, reduced transportation-related energy costs, regional business impact.	CEDS, Freight & Goods Movement Study, also noted in 2012 Comprehensive Econ Dev Strategy	●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: all Communities Benefited: all
Livability corridors/alternative modes	Construct the Rochester Intermodal Station	Construct the Rochester Intermodal Station for interregional rail & bus services at the site of the current Amtrak station	Monroe	x			\$25M	Noted in GTC LRTP 2035	RGRTA	Improved mobility, connections, VMT/GHG emissions		●	●	●	●	●	●	Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: all Communities Benefited: all

Transportation Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Leverage assets/economic development	Rebuild & repair Rochester & Southern Railroad line to Dansville Properties (between Dansville & Mt. Morris)	This project includes improvements to track, grade crossings, and bridges that are necessary to keep existing operations going and to allow for business and job growth.	Livingston	x			\$2.5M	Noted in 2012 Comprehensive Econ Dev Strategy - preliminary engineering cost estimates prepared by Rochester-Southern Railroad	NYS, Livingston County Industrial Development Agency, EDA, rail agencies/companies	Sustaining existing jobs and creating new job growth opportunities in the Dansville area, using freight trains over trucking is more environmentally friendly b/c it reduces greenhouse gas emissions and fewer trucks on the road helps to reduce costs associated with road and bridge maintenance and repair	Noted in 2012 Comprehensive Econ Dev Strategy, Freight & Goods Movement Study							Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: human, natural, built/manufactured, financial Communities Benefited: all
Alternative modes	Establish a Center City Circulator Service	Establish a Center City Circulator Service to serve daily commuters, visitors and tourists	Monroe	x			\$1.5-1.7M per bus, \$2-3M annually	Noted in GTC L RTP 2035	RGRTA	Improved mobility, connections, VMT/GHG emissions								Subject Areas Benefited: energy, transportation, land use & livable communities, GHG emissions Capitals Benefited: all Communities Benefited: Monroe County
Educate/market/promote		Determine costs associated with transportation system per capita	All	x														Subject Areas Benefited: n/a Capitals Benefited: n/a Communities Benefited: all
Alternative modes	Downtown Peoplemover	Reserved right-of-way connecting new MCC Campus and new downtown transit terminal and/or midtown plaza redevelopment area with spur to new train station. Initially green walkway, eventually becoming rout for people mover or trolley. Include solar heating.	Monroe		x				RGRTA, City of Rochester, Monroe County	Year-round, climate controlled access linking new transit terminal with primary destinations and reserved parking around downtown. Quicker and more energy efficient than transferring modes. Encourages common patronage. New residential/business clusters around nodes.	Any of the mass-transit, multi-made transportation studies in the last 20 years and individual project plans for transit, terminal, midtown, MCC Campus and rail station.							Subject Areas Benefited: energy, transportation, land use & livable communities, GHG emissions Capitals Benefited: all Communities Benefited: Monroe County
Existing system	Install AVL & weather information instrumentation on public fleets to maximize routing & serve as real-time sensors	The data provided from AVL technology installed on publically-owned vehicles such as snow plows and refuse trucks allows operating agencies to optimize routing of these vehicles	All	x							GTC L RTP							Subject Areas Benefited: energy, transportation, land use & livable communities, materials/waste management, GHG emissions Capitals Benefited: human, natural, built/manufactured Communities Benefited: all
Existing system	Install relevant pedestrian ITS instrumentation at identified intersections & crossings to reduce vehicle/pedestrian crashes	Installation of pedestrian countdown signals, audible/tactile devices, and similar ITS elements can improve pedestrian safety and accessibility	All	x							GTC L RTP							Subject Areas Benefited: energy, transportation, land use & livable communities, GHG emissions Capitals Benefited: human, natural, built/manufactured Communities Benefited: all
Existing system	Continue the implementation of & expand Technology Initiatives Driving Excellence (TIDE) for RTS	TIDE is a comprehensive Advanced Public Transportation Systems suite that improves operational efficiency and customer service. The benefits from TIDE are critical to attracting choice riders and reducing delay on the highway/bridge network	All	x							GTC L RTP							Subject Areas Benefited: energy, transportation, land use & livable communities, GHG emissions Capitals Benefited: human, natural, built/manufactured Communities Benefited: all
Existing system	Introduce transit signal priority on heavily traveled RTS routes	Transit signal priority allows buses to signal their arrival at an intersection and receive a green light (when operationally allowed) to continue through	All	x							GTC L RTP							Subject Areas Benefited: energy, transportation, land use & livable communities, GHG emissions Capitals Benefited: human, natural, built/manufactured Communities Benefited: all
Leverage assets/economic development	Integrated Plan for Low-carbon transportation and economic development	Develop a multi-pronged initiative with several other parties to create a model program for culture- and economic transformation directed toward carbon-reducing economic development	All	x					Local universities, school districts, Social and for-profit businesses	Increasing active transportation and ultralight electric vehicle use Creating and educating and enlightened workforce of sustainability workers and citizen scientists. Increasing tourism. Creating a model program particularly well-suited for our region, but adaptable nationally, helping establish a new image for 21st century sustainable innovation. Economic Development.	RIT/Rochester Cycling Alliance							Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: human, social, natural, financial Communities Benefited: all

Transportation Projects

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Leverage assests/economic development	Orleans Co rail infrastructure expansion/development	Orleans Co rail infrastructure expansion/development	Orleans, all	x			\$2.5M	Noted in 2012 Comprehensive Econ Dev Strategy	Orleans County IDA, NYS, Local and federal agencies	Encourage freight via rail, economic development	Noted in 2012 Comprehensive Econ Dev Strategy							Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: human, natural, built/manufactured, financial Communities Benefited: all
Leverage assests/economic development	Elmwood Avenue Railroad Siding	Elmwood Avenue Railroad Siding	Yates, all	x			\$1.15M	Noted in 2012 Comprehensive Econ Dev Strategy	Village of Penn Yan	More efficient freight movement								Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: human, natural, built/manufactured, financial Communities Benefited: all
Livibility corridors	Keuka Waterfront Development	Consists of a mixed-use redevelopment of a 14.7 acre brownfield site at the north end of Keuka Lake & adjacent to historic Penn Yan	Yates	x														Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: all Communities Benefited: Yates County
Alternative fuels	Install alternative fuel charging stations along the Thruway	Existing Thruway service areas are ideal locations to install public charging stations for alternative vehicles	All	x														Subject Areas Benefited: energy, transportation, economic development, GHG emissions Capitals Benefited: human, natural, built/manufactured, financial Communities Benefited: all including other regions
Existing system	Reconstruct the eastern portion of the Inner Loop as an at-grade boulevard "Inner Loop East Transformation Project"	Reconstructing the eastern portion of the Inner Loop would allow for bicycling and walking and improve the overall contribution of the roadway to community character	Monroe		x		\$21.5M	Noted in GTC L RTP 2035	GTC, NYSDOT, City of Rochester	Economic development, encourage walking/biking, more sense of community	Noted in GTC L RTP 2036, also noted in FLREDCS Strategic Plan							Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: all Communities Benefited: Monroe County
Leverage assests/economic development	Support the establishment of high-speed rail service on Empire Corridor	Support efforts to establish high-speed passenger rail service on the Empire Corridor	Monroe, Wayne		x				NYSDOT	Improved mobility, connections, VMT/GHG emissions								Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: all Communities Benefited: all
Leverage assests/economic development	Preserve right-of-way along NSs Corning Secondary Line between Geneva & Lyons	NS has suspended service on this line but reactivating this line would provide direct linkage from Geneva to Lyons		x					GTC, NYSDOT, IDAs, rail agencies/companies	Encourage freight via rail, economic development	Noted in Freight & Goods Movement plan							Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: human, natural, built/manufactured, financial Communities Benefited: all
Leverage assests/economic development	Determine feasibility of improvements noted in Seneca Army Depot Industrial Rail Facility Concept Plan	Determine feasibility of improvements noted in Seneca Army Depot Industrial Rail Facility Concept Plan	Seneca, all		x		\$12M - Cost for concept plan improvements = \$800k +	Noted in Freight & Goods Movement plan, Seneca Army Depot Industrial Rail Facility Concept Plan	Seneca County IDA, NYSDOT, rail agencies/companies	Encourage freight via rail, economic development	Noted in Freight & Goods Movement plan, 2012 Comprehensive Econ Dev Strategy							Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: human, natural, built/manufactured, financial Communities Benefited: all
Leverage assests/economic development	Revitalize Port of Rochester "Port of Rochester Public Marina & Mixed-use Development"	Continue to advance plans documented in the 2006 Port Master Plan and 2008 Marina Development Feasibility Study	All		x		\$89-133M total project private investment	Noted in 2012 Comprehensive Econ Dev Strategy	City of Rochester	Encourage freight movement other than truck, economic development	Noted in 2012 Comprehensive Econ Dev Strategy - Initial design, permitting and DEIs have been completed and some funding has been secured for redevelopment, also noted in the FLREDC Strategic Plan							Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: human, natural, built/manufactured, financial Communities Benefited: all
Leverage assests/economic development	Industrial Road-Town of Ontario, Beh to Lincoln	Develop access road to industrial land north of Route 104 and the Ontario Midland Railroad between Lincoln Rd & Dean Parkway in Ontario	Wayne, all	x			\$5M	Noted in 2012 Comprehensive Econ Dev Strategy	Wayne Co IDA, Town of Ontario	Encourage freight via rail, economic development	Noted in 2012 Comprehensive Econ Dev Strategy							Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: has benefits to different capitals but includes the construction of new infrastructure Communities Benefited: all
Leverage assests/economic development	Wyoming County Rail Initiative	Construct a rail spur into the site of the Hillcrest Industries site	Wyoming, all	x			\$1.5M	Noted in 2012 Comprehensive Econ Dev Strategy	Wyoming Co IDA	More efficient freight movement								Subject Areas Benefited: energy, transportation, land use & livable communities, economic development, GHG emissions Capitals Benefited: has benefits to different capitals but includes the construction of new infrastructure Communities Benefited: all

Transportation Projects

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Alternative fuels	Bio gas powered vehicles from landfill waste	A growing RNG industry today has the capabilities to economically convert digester and landfill biogas into vehicle fuel. There are currently 10 RNG projects operating in the U.S., all generating this clean, green fuel from an otherwise wasted resource.	All		x													Subject Areas Benefited: energy, transportation, materials/waste management, economic development, GHG emissions Capitals Benefited: human, natural, financial Communities Benefited: all including other regions
Alternative fuels	Bio-gas Powered Fuel Cell & Hydrogen Development Research	The Golisano Institute for Sustainability is interested in pursuing research where bio-gas from landfills and anaerobic digesters is used to power stationary fuel cells. The fuel cells would produce electricity and hydrogen from a sustainable feedstock fuel. The long-term potential exists to create hydrogen depots that could provide fuel for commercial fueling stations to sell to consumers driving hydrogen vehicles.	All		x				The long term benefits from the project include greatly reduced GHG emissions from hydrogen vehicles, increased renewable electricity production, reduced VMT from the shipping of petroleum fuels and enhanced local job creation from establishment of a regional hydrogen distribution network.									Subject Areas Benefited: energy, transportation, materials/waste management, economic development, GHG emissions Capitals Benefited: human, natural, financial Communities Benefited: all including other regions
Alternative modes	Address the capital backlog at NYS Parks & Historic Sites	Progress projects that could provide critical safety & health benefits, environmental benefits and enhance the visitor experience		x														Subject Areas Benefited: transportation Capitals Benefited: human, social, natural Communities Benefited: all
Alternative fuels	Increase the number of truck stop electrification (TSE) facilities	from GTC LRTP - expanding the number of facilities that provide TSE options can have significant benefits such as improved air quality, reduced fuel usage and decreased maintenance costs	All	x					Lower transportation energy costs, reduction in GHG emissions	GTC LRTP								Subject Areas Benefited: energy, transportation, GHG emissions Capitals Benefited: human, natural, built/manufactured, financial Communities Benefited: all
Existing system	NYS Route 96 Corridor – Victor, Ontario County	Link traffic signals on the Route 96 corridor with the Regional Traffic Operations Center (RTOC) through fiber optic and wireless means	Ontario	x							GTC LRTP							Subject Areas Benefited: energy, transportation, GHG emissions Capitals Benefited: while improved mobility can cause less emissions, this project encourages sprawl and vehicle based infrastructure Communities Benefited: Ontario County
Alternative fuels	Track-mounted electric vehicle system	Establishment of a lightweight vehicle system that will utilize abandoned rail lines by allowing specialized vehicles to access the lines that are equipped with guide wheels for the rail lines as well as regular wheels for street access. The cars would be able to lift their wheels off of the ground in order to align the vehicles on the rail line and then be able to lower their wheels to drive in areas where rail access was not present. The vehicles would be powered by electricity while on the rail line.	All			x			Lower transportation energy costs, reduction in GHG emissions									Subject Areas Benefited: energy, transportation, GHG emissions Capitals Benefited: human, natural, built/manufactured Communities Benefited: all including other regions

Land Use Projects

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Create healthy, safe and sustainable communities	Lyons to Port Byron Canalway Trail	This project will extend the Erie Canalway Trail along a 30-mile segment between the towns of Lyons and Port Byron. The gap passes through the Montezuma National Wildlife Refuge and will improve continuity of the system and enhance the visibility of, and stimulate use of, services in the communities along this stretch of the canal.	Wayne County	X														REDC 5-Year Action Initiative. This project benefits transportation, land use and livability, economic development and GHG emissions. This project also benefits all five capitals and has the potential to benefit or be replicated in multiple communities. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects), but could have reduced life cycle costs over the long term. It also has potential to leverage other funding sources, including public sector monies.
Create healthy, safe and sustainable communities	Canandaigua Lake Water Trail	This project will consist of a recreational trail to highlight the natural resources of Canandaigua Lake, including boat launches and pull outs, interpretive signage and waterway connections to resources at the north and south ends of the lake.	Ontario County		X				Finger Lakes Land Trust, Canandaigua Lake Watershed Alliance, City of Canandaigua and Finger Lakes Visitors Connection									REDC 5-Year Action Initiative. This project benefits transportation, land use and livability, water management and economic development. This project also benefits all five capitals and has the potential to benefit Ontario and Yates County, at a minimum, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with regional and local planning efforts. It can have low to medium order of magnitude costs (including capital projects), with lower life cycle costs over the long term. It also has potential to leverage other funding sources, including public sector monies.
Create healthy, safe and sustainable communities	Rochester Public Market	Expansion of the City of Rochester's nationally-recognized public market as a destination, while strengthening its connections with the region's farmers and small businesses.	Monroe County	X			\$10 million	FLREDC	City of Rochester									REDC 5-Year Action Initiative. This project benefits land use and livability, economic development, governance and agriculture/forestry. This project also benefits four of the five capitals and has the potential to benefit several counties through sale of ag products from farms in the region, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This project is consistent with regional and local planning efforts. It has higher order of magnitude costs (including capital projects), but could reduce life cycle costs over the long term. It also has potential to leverage other funding sources, including public sector monies.
Revitalize existing centers and prioritize the value of placemaking	Finger Lakes Cultural and Natural History Museum	Conversion of a former elementary school into an institution that will offer educational, recreational and interpretive resources to tell the environmental and cultural story of the region and advance the Finger Lakes "brand" as a destination for visitors.	Yates County	X			\$58.3 Million	FLREDC	Finger Lakes Cultural and Natural History Museum, Empire State Development and State Parks									REDC Transformative Priority Project. This project benefits energy, land use and livability, materials/waste management and economic development. This project also benefits four of the five capitals and has the potential to benefit several counties. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects), but could reduce life cycle costs over the long term. It also has potential to leverage other funding sources, including public sector monies.
Create healthy, safe and sustainable communities	FoodLink Food Hub	This project allows FoodLink to increase the size and capacity of its food storage, processing and distribution facilities to accommodate increasing demand to supply food to hospitals, corner stores, schools and the emergency food network in the region.	All	X														REDC Priority Project. This project benefits energy, land use and livability, economic development and agriculture/forestry. This project also benefits four of the five capitals and has the potential to benefit several counties and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects), but could reduce life cycle costs over the long term. It also has potential to leverage other funding sources, including public sector monies.
Revitalize existing centers and prioritize the value of placemaking	Regional Build-Out and Fiscal Analysis	Understanding of the extent of potential development and costs of such development will help to encourage more sustainable development practices. will help to encourage more sustainable development practices.	All		X													This project benefits land use and livability, agriculture/forestry, governance and economic development. This project also benefits three of the five capitals and has the potential to benefit several counties, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with local planning efforts, although not specifically mentioned. It can have low to medium order of magnitude costs.
Create healthy, safe and sustainable communities	Finger Lakes Regional Green Products and Services Guide	Will help homeowners choose sustainable strategies for restoring and rehabilitating their homes and serve as a tool for preserving historical details to ensure that an older house can continue to provide safe, affordable shelter and meet current building performance standards without adversely compromising the integrity of the structure. The sustainable products and services accumulated for this manual can also serve as a compendium of smart, sustainable choices to improve the region's business marketability and economic development while providing conscientious customers a "green" resource.	All	X														This project benefits energy, land use and livability, governance and economic development. This project also benefits three of the five capitals and has the potential to benefit several counties, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with local planning efforts, although not specifically mentioned. It can have low to medium order of magnitude costs. It also has potential to leverage other funding sources.
Create healthy, safe and sustainable communities	Establish USGBC certified green schools	Employ Green School Fellows who will select up to four school districts, or 60 schools, to become USGBC certified Green Schools. Selected schools would be engaged in energy efficiency efforts, waste reduction and recovery, clean air initiatives, water conservation, transportation efficiencies, and other "green" efforts such as gardening and natural habitat restoration.	All	X														This project benefits energy, land use and livability, materials/waste management, water management, climate change adaptation and GHG emissions. This project also benefits three of the five capitals and has the potential to benefit several counties, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with local planning efforts, although not specifically mentioned. It can have low to medium order of magnitude costs.
Create healthy, safe and sustainable communities	Community green living demonstration facility and curriculum development	Develop a "living classroom" within the community that can serve K-12 students with hands on exposure to various sustainable living elements at work at a residence/business. Provide funding for curriculum development as well as site improvements that match the proposed lessons. Examples would be windmills, solar panels, rainwater collection systems, home gardens, etc. Students can do lessons on-site, and follow up with classroom activities that analyze the positive impacts of the facility on the carbon footprint, on energy costs, and on disaster resiliency.	All	X														This project benefits energy, land use and livability, materials/waste management, water management, climate change adaptation and GHG emissions. This project also benefits four of the five capitals and has the potential to benefit several counties, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with local planning efforts, although not specifically mentioned. It can have low to medium order of magnitude costs.

Land Use Projects

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Support and preserve rural areas and the character of rural areas	Promotion and Protection of Canandaigua Lake	This project will promote tourism and recreation, protect the lake as a drinking water source, create wetlands, manage stormwater in Sucker Brook subwatershed, stabilize eroding road banks and streams, value and identify ways to protect the high rate of return that natural capital provides to the economy, and enhance watershed educational programs.	Ontario County	X			\$680,000	FLREDC	Department of State									This project benefits land use and livability, water management, governance and economic development. This project also benefits four of the five capitals and has the potential to benefit the 2 to 3 counties in the vicinity of the lake, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with local and state planning efforts. It can have low to medium order of magnitude costs (including capital projects), with lower life cycle costs over the long term. It also has potential to leverage other funding sources.
Support and preserve rural areas and the character of rural areas	Strategy for a Sustainable Keuka Lake	To advance the Keuka Lake Watershed Land use Planning Guide by development resources for municipalities, including model laws, land use training and public outreach, the creation of a water quality internship program; watershed, zoning, infrastructure and watershed mapping, and an agricultural assessment.	Ontario, Yates and Wayne County	X			\$268,500	FLREDC	Department of State									This project benefits land use and livability, water management, governance, economic development and agriculture/forestry. This project also benefits four of the five capitals and has the potential to benefit the 3 counties in the vicinity of the lake, and could be replicated in other areas. Implementation could be accomplished in less than 10 years. This strategy is consistent with local and state planning efforts. It can have low to medium order of magnitude costs.
Revitalize existing centers and prioritize the value of placemaking	Finger Lakes Education, Arts & Community Council	Give communities across the region a venue to inform, support and reinforce each other's educational programs and opportunities, arts and cultural resources and activities, and help to reduce disparities experienced from birth through old age	All	X														This project benefits land use and livability, governance and economic development. This project also benefits three of the five capitals and has the potential to benefit all counties in the region. Implementation could be accomplished in less than 10 years. It is consistent with local planning efforts, although not specifically mentioned. It can have low order of magnitude costs.
Revitalize existing centers and prioritize the value of placemaking	Village of Spencerport Heritage Trail and Park	This project expands on numerous improvements that have been made along the canal in Spencerport over the in the last fifteen years, including new docks, a promenade, and a canalside Visitor Center with restrooms, showers, a library, and local information for canal tourists to help expand our canalside area for public enjoyment.	Monroe County		X													This project benefits transportation, land use and livability and economic development. This project also benefits three of the five capitals and has the potential to benefit more than one county along the canal, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with regional and local planning efforts. It can have low to medium order of magnitude costs (including capital projects). It also has potential to leverage other funding sources.
Encourage diversity of our communities	College Town Development Project	Completion of a mixed-use development located adjacent to the University of Rochester campus.	Monroe County	X			\$90 million	FLREDC	Empire State Development, University of Rochester									REDC Transformative Priority Project. This project benefits energy, transportation, land use and livability and economic development. This project also benefits three of the capitals and has the potential to benefit Monroe County. Initial implementation could be accomplished in less than 10 years, although full implementation could take longer. This strategy is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects).
Revitalize existing centers and prioritize the value of placemaking	Downtown Warsaw Revitalization	This project will improve commercial and residential mixed-use buildings in the Town of Warsaw, including rehabilitation of 12 buildings consisting of 15 residential and 19 commercial units.	Wyoming County	X				FLREDC	Village of Warsaw									This project benefits energy, land use and livability, materials/waste management and economic development. This project also benefits three of the five capitals and has the potential to benefit Wyoming County. and could be replicated. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium to high order of magnitude costs, with potential to leverage other funding.
Revitalize existing centers and prioritize the value of placemaking	Albion - Main Street 2011	This project includes streetscaping enhancements and rehabilitation of thirteen building with 12 commercial and four residential units on a three-block section of North Main Street and East Bank Street in downtown Albion.	Orleans County	X				FLREDC	Village of Albion									This project benefits energy, land use and livability, materials/waste management and economic development. This project also benefits three of the five capitals and has the potential to benefit Orleans County. and could be replicated. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium to high order of magnitude costs, with potential to leverage other funding.
Revitalize existing centers and prioritize the value of placemaking	Geneseo Downtown Revitalization Program	This project includes streetscape enhancements and the renovation of 9 buildings in its designated National Landmark Downtown, including the vacant and historic Riviera Theater, and interior renovations to 10 commercial and 11 residential units..	Genesee County	X				FLREDC	Village of Geneseo									This project benefits energy, land use and livability, materials/waste management and economic development. This project also benefits three of the five capitals and has the potential to benefit Genesee County. and could be replicated. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium to high order of magnitude costs, with potential to leverage other funding.
Revitalize existing centers and prioritize the value of placemaking	Downtown East Rochester Revitalization Initiative	This project focuses on the rehabilitation of 29 commercial and 37 residential units in mixed-use buildings in the business district of the village along Main Street and West Commercial Street.	Monroe County	X				FLREDC	Village of East Rochester									This project benefits energy, land use and livability, materials/waste management and economic development. This project also benefits three of the five capitals and has the potential to benefit Monroe County. and could be replicated. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium to high order of magnitude costs, with potential to leverage other funding.
Revitalize existing centers and prioritize the value of placemaking	Downtown Batavia Revitalization Program	This project will improve commercial and residential mixed-use buildings in the City of Batavia, including the rehabilitation of 20 buildings consisting of 20 commercial and 10 residential units and enhancement of streetscapes.	Genesee County	X				FLREDC	City of Batavia									This project benefits energy, land use and livability, materials/waste management and economic development. This project also benefits three of the five capitals and has the potential to benefit Genesee County. and could be replicated. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium to high order of magnitude costs, with potential to leverage other funding.

Land Use Projects

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility		
Revitalize existing centers and prioritize the value of placemaking	Eastman Business Park (REDC Plan)	Eastman Business Park (EBP) occupies approximately 1,200 acres in the City of Rochester and Monroe County. As Eastman Kodak emerges from bankruptcy the sustainability of EBP as a national center of manufacturing and commerce hinges on the continued operation of the unique utility infrastructure present (railroad, dedicated power generation, water and wastewater processing and treatment facilities), the creation economic conditions needed to both attract and retain tenants and buyers, and successful transition of environmental obligations and permitting requirements. Identification and resolution of issues that may be barriers to the EBP's sustainability and viability is essential. Reinvestment in the comprehensive existing available utility infrastructure and redevelopment of the industrial and commercial land within EBP is needed to ensure that one of the nation's premier industrial redevelopment sites achieves its potential to attractive to high tech and manufacturing companies.	Monroe		X				Monroe County				●	●	○	●	●	●	REDC Transformative Priority Project. This project benefits energy, transportation land use and livability, and economic development. This project also benefits four of the five capitals and has the potential to benefit Monroe County. Progress toward implementation could be accomplished in a relatively short term (less than 10 years); full implementation could take longer. This strategy is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects). It also has potential to leverage other funding sources and significant benefits early in the project life cycle.
Revitalize existing centers and prioritize the value of placemaking	Village of Avon Downtown Revitalization Project	This project involves renovations to seven buildings in downtown Avon, including interior and exterior improvements, to five commercial and seven residential units and streetscaping enhancements.	Livingston County	X			\$500,000	FLREDC	DHCR				●	●	○	●	●	●	This project benefits energy, land use and livability, materials/waste management and economic development. This project also benefits three of the five capitals and has the potential to benefit Livingston County. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium order of magnitude costs, with potential to leverage other funding.
Create healthy, safe and sustainable communities	Access improvements to Seneca Lake	Design and construction of shoreline improvements along the Seneca Lake waterfront, a multi-use trail from Castle Creek to Lakefront Beach, boat launch jetty improvements, and a raised planter roundabout with multi-use paths to connect to the Finger Lakes Boating Museum.	Ontario County	X			\$625,000	FLREDC	City of Geneva				○	●	○	●	●	●	This project benefits transportation, land use and livability and economic development. This project also benefits four of the five capitals and has the potential to benefit Ontario County. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium order of magnitude costs, with potential to leverage other funding.
Revitalize existing centers and prioritize the value of placemaking	Penn Yan / Keuka Lake Waterfront Development	This project includes mixed use brownfield redevelopment to create approximately 170,000 square feet of retail, office, restaurant, residential and hotel development at the north end of Keuka Lake, adjacent to the historic Penn Yan community.	Yates County		X			FLREDC	NY Department of State				●	●	○	●	●	●	REDC Priority Project. This project benefits energy, transportation, land use and livability and economic development. This project also benefits three of the five capitals and has the potential to benefit Yates County. Initial implementation could be accomplished in less than 10 years, although full implementation could take longer. This strategy is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects). It also has potential to leverage other funding sources, including public sector monies.
Create healthy, safe and sustainable communities	Town of Odgen Heritage Trail and Park	This project involves the construction a 1,600-foot extension of the Heritage Trail from Spencerport and the development of a canalside park (the first park in Odgen), including benches shaded picnic tables and grills, visitor parking and an 80-foot dock for boaters. Future plans include the construction of pavilions, and a lodge with a fireplace and restrooms.	Monroe County	X									○	●	●	●	●	●	This project benefits transportation, land use and livability and economic development. This project also benefits three of the five capitals and has the potential to benefit more than one county along the canal, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with regional and local planning efforts. It can have low to medium order of magnitude costs (including capital projects). It also has potential to leverage other funding sources.
Revitalize existing centers and prioritize the value of placemaking	Former Vacuum Oil Refinery Brownfield Clean-up and Redevelopment	The City is completing a land use and environmental planning process on the west side of the river between the Ford Street Bridge and the Riverview Student Housing Project. This property represents a substantial economic and community development opportunity. The clean-up and redevelopment of the long underutilized 28 acre site, just south of downtown is on the river across from UR. The Vacuum Oil Site is the center of a 150 acre BOA and stretches over a mile of underdeveloped waterfront. The City plans to proceed with several implementation actions in 2013. The BOA process is identifying viable opportunities for waterfront public access, recreation and open space; private mixed use and commercial redevelopment; and transportation improvements.	Monroe		X				City of Rochester				●	●	○	●	●	●	This project benefits transportation, land use and livability, water management and economic development. This project also benefits four of the five capitals and has the potential to benefit Monroe County. Initial implementation could be accomplished in less than 10 years, although full implementation could take longer. It is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects). It also has potential to leverage other funding sources, including public sector monies.
Revitalize existing centers and prioritize the value of placemaking	GardenAerial Eco-district	The GardenAerial project will transform the High Falls neighborhood into an eco-district. Greening the district will include landscaping the middle gorge area with native flora; a 'bridge of flowers' across the Genesee River on the Pont de Rennes pedestrian bridge; extending the existing trail; and building a new pedestrian bridge/public park overlooking High Falls. Public education, community engagement and enhanced stewardship of the Genesee River corridor are also proposed.	Monroe		X				Friends of the Garden Aerial				●	●	○	●	●	●	This project benefits transportation, land use and livability, water management and economic development. This project also benefits four of the five capitals and has the potential to benefit Monroe County. Initial implementation could be accomplished in less than 10 years, although full implementation could take longer. It is consistent with local planning efforts. It can have higher order of magnitude costs (including capital projects). It also has potential to leverage other funding sources, including public sector monies.
Revitalize existing centers and prioritize the value of placemaking	Smart Genesee Zoning Reform Pilot Project	This pilot project would fund comprehensive planning and the development of form-based land use regulation codes for communities that might experience development pressure as a result of the Western New York Science Technology and Advanced Manufacturing Park. The new codes would incorporate Smart Growth principles into local land use regulations and would streamline and simplify the development process while promoting mixed-use, walkable neighborhoods, farmland protection, and environmental sustainability. The project would serve as a model for other communities that do not have professional planning staff and would build knowledge and expertise in the region regarding this innovative approach to land use regulation. (Genesee County Comprehensive Plan)	Genesee	X					Genesee County				●	●	○	●	●	●	This project benefits land use and livability, agriculture/forestry, governance and economic development. This project also benefits four of the five capitals and has the potential to benefit Genesee County. Implementation could be accomplished in a relatively short term (less than 10 years). It is consistent with the Genesee County Smart Growth Plan. It can have low to medium order of magnitude costs.

Land Use Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Revitalize existing centers and prioritize the value of placemaking	Midtown Town and Redevelopment .	Redevelopment of land into seven parcels creating an urban street grid pattern, and adaptive reuse of the Midtown Tower, to create a focal point for downtown revitalization and accommodate approximately one million square feet of office, residential, hotel and retail space.	Monroe County	X			\$54 million	FLREDC	City of Rochester and Empire State Development									REDC Transformative Priority Project. This project benefits energy, transportation, land use and livability, governance and economic development. This project also benefits three of the five capitals and has the potential to benefit Monroe County. Initial implementation could be accomplished in a relatively short term (less than 10 years) as it is a priority project that is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects), but could reduce life cycle costs over the long term. It also has potential to leverage other funding sources, including both public and private sector monies.
Revitalize existing centers and prioritize the value of placemaking	Finger Lakes Boating Museum	This project proposes a new museum and visitor's center on the north end of Seneca Lake in Geneva that will house the extensive collection of boats, artifacts and archival material related to the Finger Lakes boating industry.	Ontario County		X													REDC Priority Project. This project benefits land use and livability and economic development. This project also benefits three of the five capitals and has the potential to benefit Seneca and Ontario Counties, possibly more. Implementation could be accomplished in a relatively short term (less than 10 years) as it is a priority project that is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects).
Revitalize existing centers and prioritize the value of placemaking	Infrastructure assessment	Provides an understanding of infrastructure capacity and vulnerability and assists with planning for future growth and development	All	X														This project benefits transportation, land use and livability, water management and economic development. This project also benefits four of the five capitals and has the potential to benefit multiple counties. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium to high order of magnitude costs, with potential to leverage other funding.
Revitalize existing centers and prioritize the value of placemaking	Irondequoit Mall Redevelopment	Redevelopment of a former mall as a mixed use development.	Monroe County	X				FLREDC										REDC 5-Year Action Initiative. This project benefits energy, land use and livability, materials/waste management and economic development. This project also benefits three of the five capitals and has the potential to benefit Monroe County, and could be replicated. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium to high order of magnitude costs, with potential to leverage other funding.
Revitalize existing centers and prioritize the value of placemaking	Seneca Falls Central Business District Revitalization Program	This project will rehabilitate six buildings with 9 residential and 7 residential units, and streetscape enhancements.	Seneca County	X			\$2.8 million	FLREDC	DHCR, DOT and private									This project benefits energy, land use and livability, materials/waste management and economic development. This project also benefits three of the five capitals and has the potential to benefit Seneca County. Implementation could be accomplished in less than 10 years, and could be replicated. It is consistent with regional and local planning efforts. It can have medium to high order of magnitude costs, with potential to leverage other funding.
Create healthy, safe and sustainable communities	Seneca Falls Canal Harbor Improvement Project	Boater amenities and canal-side improvements	Seneca County	X			\$300,000	FLREDC	Canal Corporation									This project benefits land use and livability and economic development. This project also benefits three of the five capitals and has the potential to benefit Seneca County. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium to high order of magnitude costs.
Revitalize existing centers and prioritize the value of placemaking	Canandaigua Lakefront Redevelopment	This project will develop 33.5 acres of land adjacent to Kershaw Park on the north end of Canandaigua Lake for mixed use.	Ontario County		X													REDC 5-Year Action Initiative. This project benefits transportation, land use and livability, and economic development. This project also benefits three of the five capitals and has the potential to benefit Ontario County, and could be replicated. Implementation could be accomplished in less than 10 years. It is consistent with regional and local planning efforts. It can have medium to high order of magnitude costs, with potential to leverage other funding.
Revitalize existing centers and prioritize the value of placemaking	I-Square	This project entails the creation of 92,000 square feet of urban style town square development in the Town of Irondequoit that will revitalize 2.5 acres of empty storefronts, vacant office space and rundown business district that will include new retail, restaurants and professional space, with state of the art infrastructure and eco-friendly amenities.	Monroe County		X				EFC									REDC Priority Project. This project benefits energy, transportation, land use and livability, water management, governance and economic development. This project also benefits four of the five capitals and has the potential to benefit Monroe County. Implementation could be accomplished in a relatively short term (less than 10 years) as it is a priority project that is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects), but could reduce life cycle costs over the long term. It also has potential to leverage other funding sources, including public sector monies.
Revitalize existing centers and prioritize the value of placemaking	Port of Rochester Public Marina and Mixed Use Development	A two-phased project to redevelop the Port of Rochester area to enhance public waterfront recreational facilities and support private mixed use development.	Monroe County		X		\$30 million	FLREDC	City of Rochester									REDC 5-Year Action Initiative. This project benefits land use and livability, water management and economic development. This project also benefits four of the five capitals and has the potential to benefit Monroe County. Initial implementation could be accomplished in less than 10 years, although full implementation could take longer. It is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects). It also has potential to leverage other funding sources, including public sector monies.
Support and preserve rural areas and the character of rural areas	Seneca Art and Cultural Center at Ganondagan	This project involves the development of a new facility at the Ganondagan State Historic Site that will include education, exhibit, archival and guest services space for year-round visitation.	Seneca County		X			FLREDC	NYS Parks									REDC 5-Year Action Initiative. This project benefits land use and livability and economic development. This project also benefits four of the five capitals and has the potential to benefit Seneca County. Initial implementation could be accomplished in less than 10 years, although full implementation could take longer. It is consistent with regional and local planning efforts. It can have higher order of magnitude costs (including capital projects). It also has potential to leverage other funding sources, including public sector monies.

Materials Waste Management Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Increase the percentage of materials recycled, composted, and reused within the region.	Revised curbside pick-up program	Provide proper bins for recyclable and compostable materials, increasing efficiency in vehicle fleet.	All	X			Unknown	Unknown	Local/NYS	Increased diversion, public education, energy efficient	NA					Unknown		Subject Areas Benefited: Energy, Transportation, Materials/Waste Management, Economic Development, Agriculture & Forestry, GHG Emissions Capitals Benefited: Human, Built/Infrastructure, Financial Communities Benefited: All, and surrounding regions Implementation Feasibility: Consistent with Planning Efforts: Unknown Financial Feasibility:
Promote education, awareness, and research services	Pre- and Post-Consumer Organics Management Education Programs	Need seed money for education programing, in which the public and businesses would learn about how to properly manage organic waste.	All	X			Unknown	Unknown	Local governments	Public education, increased diversion	NA					Unknown		Subject Areas Benefited: Materials/Waste Management, Economic Development Capitals Benefited: Human, Social Communities Benefited: All, and surrounding regions Implementation Feasibility: Consistent with Planning Efforts: Unknown Financial Feasibility:
Promote education, awareness, and research services	Material Generation and Disposal Reporting System for Non-Residential Sectors	Web-based software system for non-residential waste generators to report data on materials they generate and dispose of off-site. Future waste material reduction and reuse programs such as industrial ecology programs that use one company's waste materials as another company's feedstock. (From CNY Regional Plan)	All	X			Unknown	Unknown	Local governments	Waste monitoring, potential for fees as income source and incentive for businesses to reduce and divert waste	NA					Unknown		Subject Areas Benefited: Materials/Waste Management, Governance, GHG Emissions Capitals Benefited: Human, Financial Communities Benefited: all Implementation Feasibility: Consistent with Planning Efforts: Unknown Financial Feasibility:
Increase the percentage of materials recycled, composted, and reused within the region.	Limit Your Waste Challenge	Advertise a challenge within the community that limits families to one trash bag a week. Encourage them to limit their waste by using recyclable materials, composting and decreasing overconsumption.	All	X			Unknown	Unknown	Local governments	Reduced and Diverted household waste, public education	NA					Unknown		Subject Areas Benefited: Materials/Waste Management Capitals Benefited: Human, Social Communities Benefited: All Implementation Feasibility: Consistent with Planning Efforts: Unknown Financial Feasibility:
Increase the percentage of materials reused, recycled, and composted within the region.	I-Square Community Self-Reliant Waste Management	I-Square is a sustainable multi-use redevelopment project in the Center of the Town of Irondequoit. The project will incorporate energy conservation, solar power, green infrastructure and possibly and electric vehicle charging station. This suggested strategy will enable I- Square owners to address a critical trait of sustainability;the reduction, reuse and recycling of waste generated on site. The material conservation program will provide enterprises and residents with the opportunity to design, own and manage their own material (waste) stream from the point of generation and share in the cost savings and revenue derived from marketing their own recycled materials. For example food waste may be composted on site with the end product being used in organic rooftop gardens, generating fresh produce to be used by the resturants located in the redevelopment. Fat, oil and grease from the resturants may be converted to bio-fuel on site. Businesses would jointly market recycled white office paper and plastics directly to end markets rather than working through traditional waste management companies. Materials from the demoliiton of current structures will be recycled or possibly even reused in the reconstructed enterprises.	Monroe	X			\$50,000-\$100,000		I-Square/Larsen Engineers	Model Community Material Management for other developers and communities. Contributes to overall sustainability of the Finger Lakes Region. Reduced landfilling of waste. Reduced carbon footprint from transportation of waste to landfills and reduced us of gas. Operational and Maintenance cost savings to site owern, businesses and residents. Revenue opportunities fo rdevelopment owner and I-Square Enterprises. Possible material remanufacturing. Contributes to growth of green collar jobs in the growing regional recycling and material remanufacturing industry.	I-Square Redevelopment Plan / Town Approved					Unknown		Subject Areas Benefited: Materials/Waste Management, Energy, Economic Development, Land Use/Livability Capitals Benefited: Natural, Built/Manufactured Communities Benefited: Monroe Count Implementation Feasibility: Consistent with Planning Efforts: Unknown Financial Feasibility:
Increase the percentage of materials reused, recycled, and composted within the region.	Sustainable Rochester 20/20	Fully revitalizing City of Rochester's 36 residential neighborhoods; maximizing densities with new house projects replacing empty lots; maximizing densities with renovation to existing abandoned and derelict houses; applying sustainable construction and design standards comprehensively to all projects; maximizing densities, quality of life and sustainable practices by repairing and rehabilitating existing unoccupied houses; deconcentrating poverty by ewelcomng new residents across a broad diverse socio-economical range	Monroe	X			Less than the cost of not doing this	Common Sense		Sustainable Rochester 20/20 (now only a vision plan and dream) could become a project for profit entity, however such a project would ?? Input and support from everyon; huge increase in tax revenues for oru city; walkable, bicycle able, neighborhood desire, diverse, vibrant; will allow much ?? segment of society/community to live more sustainably; less auto dependence; smaller footprint						Unknown		Subject Areas Benefited: Materials/Waste Management, Energy, GHG Emissions, Economic Development Capitals Benefited: Human/Built infrastructure Communities Benefited: Town of Irondequoit Implementation Feasibility: Consistent with Planning Efforts: Unknown Financial Feasibility:

Materials Waste Management Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Reduce the amount of solid waste generated in the region.	Solid Waste Generation Reduction Assistance for Finger Lakes Businesses	<p>The New York State Pollution Prevention Institute (NYSP2I) will provide sustainable production assistance, green product and process development assistance, and sustainable supply chain assistance to companies across the Finger Lakes region to reduce environmental footprint, manufacturing costs and increase process efficiencies.</p> <p>Solid waste reduction can be addressed at many stages of a product's lifecycle, in the product design phase, through selection of packaging materials, and in the production process to name a few. NYSP2I is positioned to help reduce the amount of solid waste entering landfills by assisting Finger Lakes businesses through three existing programs: Direct Client Assistance (sustainable production assistance), the Green Technology Accelerator Center (new product and process development assistance), and Sustainable Supply Chain & Technology Program (assistance with sustainability practices and certification attainment).</p>	All	X			\$550,000	Estimated per NYSP2I! Typical cost per project type.	NYSP2I	Increased profitability of businesses in the region, Increased employment, Energy use reduction, Reduction in waste to landfill	Y – This project would be a targeted expansion of the three existing programs listed above.					Unknown		<p>Subject Areas Benefited: Materials/Waste Management, Energy, GHG Emissions, Economic Development</p> <p>Capitals Benefited: Human, Built infrastructure</p> <p>Communities Benefited: All</p> <p>Implementation Feasibility: Consistent with Planning Efforts: Unknown</p> <p>Financial Feasibility:</p>

Water Management Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Inventory, monitor and educate to create a better understanding of the region's water resources.	Wayne County Comprehensive Shoreline Management Project	Elevation site assessment and risk analysis of built environment and development of cost estimates for repairing and relocating facilities. Will serve as the basis to modify comprehensive plans	Wayne	x			\$300,000	Grant submission - Great Lakes Restoration Initiative	Wayne County	Plan for climate change, improve water management, provide technical resources to local gov't to		●	●	◐	●	●	●	Benefits following subject areas: Transportation, Land Use & Livability, Water Management, Economic Development, Climate Change Adaptation, Governance; Benefits the following Capitals: Human, Social, Natural, Built and Financial; Ability to be replicated in communities in multiple regions; consistent with Great Lakes Restoration Initiative and Wayne County All Hazard Multi-jurisdictional Mitigation Plan
Inventory, monitor and educate to create a better understanding of the region's water resources.	Green Genesee Roadmap	Support the development of an interconnected, functional ecosystem by conducting an inventory and providing a science-based, community-based tool to optimize land use by understanding ecosystem components, environmental services, and functions, as well as goals for preservation, restoration, and enhancement of the ecological networks.	Genesee	x					Genesee County	Provide technical resource for land, water resource, transportation, agriculture, forestry and climate change adaptation planning		●	●	●	●	●	◐	Benefits following subject areas: Transportation, Land Use & Livability, Water Management, Economic Development, Climate Change Adaptation, Governance; Benefits the following Capitals: Human, Social, Natural, Built and Financial; Ability to be replicated in communities in multiple regions; consistent with Genesee County Hazard Mitigation Plan
Promote Regional Standardization of Regulations and Management	Promotion And Protection Of Canandaigua Lake	Promote tourism and recreation and protect the lake as a drinking water supply, create wetlands, manage stormwater in Canandaigua Lake's Sucker Brook subwatershed, stabilize eroding road banks and stream in South Bristol, Naples, Italy and Gorham, enhance watershed educational programs, and support a Watershed Program Manager position (REDC 2012).	Ontario, Yates, Wayne	x			\$ 340,000	CFA award	City of Canandaigua Lake Watershed Council	Promote consistency in regulations, increase awareness, education		◐	●	●	◐	●	◐	Benefits the following subject areas: Land Use and Livable Communities, Water Management, Economic Development. Benefits the following capitals: Human, Social, Built, Financial. Benefits Canandaigua Lake and areas both surrounding and downstream (Ontario, Yates, Wayne Seneca counties). Consistent with local and regional planning efforts.
Promote Regional Standardization of Regulations and Management	Preparation Of A Strategy For A Sustainable Kueka Lake	Advance the Kueka Lake Watershed Land Use Planning Guide by developing resources for municipalities, including model laws, land use training and public outreach; creation of a water quality internship program; watershed, zoning, infrastructure and watershed mapping; an agricultural assessment; and will update the Planning Guide for the Kueka Lake Land UseLeadership Alliance (REDC 2012, Yates County Hazard Mitigation Plan).	Yates, Stueben	x			\$ 134,600	CFA award	Town of Wayne	Promote consistency in regulations, increase awareness, education		◐	●	●	◐	●	◐	Benefits the following subject areas: Land Use and Livable Communities, Water Management, Economic Development. Benefits the following capitals: Human, Social, Built, Financial. Benefits Canandaigua Lake and areas both surrounding and downstream (Ontario, Yates, Wayne Seneca counties). Consistent with local and regional planning efforts.
Promote Regional Standardization of Regulations and Management	Develop Wayne County Drinking Water Plan	In collaboration with Wayne County Water and Sewer Authority (WCW&SA), develop a long term plan for providing clean drinking water. Providing clean drinking water is one of the primary existing goals of the WCW&SA, and part of their overall mission and long-term planning (Wayne County Hazard Mitigation Plan).	Wayne		x				Wayne County	Improve disaster resilience, promote better water service.		◐	●	○	●	●	●	Benefits the following subject areas: Land Use and Livable Communities, Water Management, Economic Development. Benefits the following capitals: Human, Social, Natural, Built, Financial. Benefits Wayne County. Consistent with local planning efforts.
Promote Regional Standardization of Regulations and Management	Establish a Transfer of Development Rights Program	Establish a method to transfer development rights from floodplain areas into designated receiving areas. A Transfer of Development Rights Program allows the buying and selling of a property's development rights on a voluntary, market-driven basis, providing local government with the ability to transfer development rights will offer more balanced planning with nearby towns (Wayne County Hazard Mitigation Plan).	Wayne		x				Wayne County	Reduce development pressure in floodplains. Provide a benefit to landowners both inside and outside of floodplains.		◐	●	○	●	●	●	Benefits the following subject areas: Land Use and Livable Communities, Water Management, Economic Development. Benefits the following capitals: Human, Social, Natural, Built, Financial. Benefits Wayne County. Consistent with local planning efforts.
Maintain and improve the functionality and efficiency of the water supply and wastewater infrastructure systems	Town Of Canandaigua Sewer District Improvements	Formation of a 213.5 ac Sanitary Sewer district with 3900 lineal feet of 10" diameter sewer, 3500 lineal feet of 8" diameter sewer, and 24 manholes and appurtenances. Project is along Purdy Road, Mobile Road and SR 332. Conveyances will connect to existing Town of Farmington WWTP (REDC 2012).	Ontario	x			\$ 600,000	CFA award	Town of Canandaigua	Reduction in number of on-site systems and associated pollutant loading.		◐	●	◐	●	◐	◐	Benefits the following subject areas: Land Use and Livable Communities, Water Management, Economic Development. Benefits the following capitals: Human, Social, Built, Natural, Financial. Benefits the Town of Canandaigua and areas downstream (Ontario, Seneca counties). Consistent with local planning efforts.
Maintain and improve the functionality and efficiency of the water supply and wastewater infrastructure systems	Village Of Naples Sewer Feasibility Study	Evaluation of installation of conveyance system throughout the Main Street area. Sewage would be conveyed to the Ghazlitt 1852 Vineyards Sewage Treatment Plant (REDC 2012).	Ontario	x			\$ 30,000	CFA award	Village of Naples	Potential reduction in number of on-site systems and associated pollutant loading.		◐	●	◐	●	◐	◐	Benefits the following subject areas: Land Use and Livable Communities, Water Management, Economic Development. Benefits the following capitals: Human, Social, Natural, Built, Financial. Benefits the Village of Naples and areas downstream (Ontario, Seneca counties). Consistent with local planning efforts.
Maintain and improve the functionality and efficiency of the water supply and wastewater infrastructure systems	Genesee Street Water Transmission Main Replacement Project	Replace 5,000 lineal feet of cast iron water supply pipe that serves the entire Village of Clyde (REDC 2012).	Wayne	x			\$ 600,000	CFA award	Village of Clyde	Reductions in unaccounted-for water. Improvements in service.		◐	●	○	●	◐	●	Benefits the following subject areas: Energy, Land Use and Livable Communities, Water Management, Economic Development, GHG Emissions. Benefits the following capitals: Human, Social, Natural, Built, Financial. Benefits the Village of Clyde and its water source (Wayne County). Consistent with local planning efforts.

Water Management Projects

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Maintain and improve the functionality and efficiency of the water supply and wastewater infrastructure systems	Wayne County Water & Sewer Authority Engineering Study	Complete an engineering report to evaluate upgrades to the existing waste water treatment plant in Wayne County (REDC 2012).	Wayne	x			\$ 30,000	CFA award	Wayne County Water & Sewer Authority	Potential decrease in energy usage.								Benefits the following subject areas: Energy, Land Use and Livable Communities, Water Management, Economic Development, GHG Emissions. Benefits the following capitals: Human, Social, Natural, Built, Financial. Benefits the Village of Perry and areas downstream (Wyoming, Genesee, Monroe Counties). Consistent with local planning efforts.
Maintain and improve the functionality and efficiency of the water supply and wastewater infrastructure systems	Village of Arcade Sewer Repair Engineering Study	Complete an engineering report to evaluate inflow and infiltration in the existing sewer system in the Village of Arcade (REDC 2012).	Wayne	x			\$ 30,000	CFA award	Wayne County Water & Sewer Authority	Potential reduction of sewer overflows. Potential decrease in energy usage.								Benefits the following subject areas: Energy, Land Use and Livable Communities, Water Management, Economic Development, GHG Emissions. Benefits the following capitals: Human, Social, Natural, Built, Financial. Benefits the Village of Perry and areas downstream (Wyoming, Genesee, Monroe Counties). Consistent with local planning efforts.
Maintain and improve the functionality and efficiency of the water supply and wastewater infrastructure systems	Village of Perry Stormwater Drainage Project	Construct new storm sewers and catch basins in the Village of Perry (REDC 2012).	Wyoming	x			\$ 600,000	CFA award	Village of Perry	Reduction in flooding, and associated erosion.								Benefits the following subject areas: Land Use and Livable Communities, Water Management, Economic Development. Benefits the following capitals: Human, Social, Natural, Built, Financial. Benefits the Village of Perry and areas downstream (Wyoming, Genesee, Monroe Counties). Consistent with local planning efforts.
Maintain and improve the functionality and efficiency of the water supply and wastewater infrastructure systems	Town of Jerusalem Wastewater Engineering Study and Waterfront Development	Complete an engineering study to evaluate the need for public sewers in the Hamlet of Branchport and the surrounding area in the Town of Jerusalem. Prepare a waterfront revitalization strategy for the town's Kueka Lake and Sugar Creek waterfront areas (REDC 2012).	Yates	x			\$ 57,500	CFA award	Townof Jerusalem	Potential reduction in number of on-site systems and associated pollutant loading.								Benefits the following subject areas: Energy, Land Use and Livable Communities, Water Management, Economic Development, GHG Emissions. Benefits the following capitals: Human, Social, Natrua, Built, Financial. Benefits the Town of Jerusalem and areas downstream (Wyoming, Genesee, Monroe Counties). Consistent with local planning efforts.
Promote Regional Standardization of Regulations and Management	Set up a Countywide Drainage District in Orleans County.	Establish a county-wide drainage district in Orleans County. This will provide the County with a means to plan, manage, and maintain drainage infrastructure though a system that generates funds based on contributing stormwater runoff (Orleans County Hazard Mitigation Plan).	Orleans		x				Orleans County	Provide regulatory means to fund and provide operation and maintenance of stormwater infrastructure.								Benefits the following subject areas: Land Use and Livable Communities, Water Management, Economic Development. Benefits the following capitals: Human, Social, Natural, Built, Financial. Benefits Orleans County. Consistent with local planning efforts.
Maintain and improve the functionality and efficiency of the water supply and wastewater infrastructure systems	Village of Macedon Wastewater Treatment Plant Study	Complete an engineering report to evaluate upgrades to the existing treatment plant in the Village of Macedon (REDC 2012).	Wayne	x			\$ 30,000	CFA award	Village of Macedon	Potential decrease in energy usage.								Benefits the following subject areas: Land Use and Livable Communities, Water Management, Economic Development. Benefits the following capitals: Human, Social, Natural, Built, Financial. Benefits the Village of Macedon and areas downstream (Wayne County). Consistent with local planning efforts.
	Improve streams and hillside runoff along South Lake Road and Canandaigua Lake (Yates County)	Multiple sites and projects have been identified on South Lake Rd where erosion and bank restoration, and improved drainage are required to mitigate flooding in steep slope areas. The Town of Middlesex has completed an engineering study that identifies areas of concern, proposed improvements and estimated costs (Yates County Hazard Mitigation Plan).	Yates	x				\$1M to \$2M (Yates County Hazard Mitigation Plan)	Town of Middlesex	Reduce erosion damage occurring along Seneca Lake Shore.								Benefits the following subject areas: Land Use and Livable Communities, Water Management. Benefits the following capitals: Human, Social, Natural, Built. Benefits Yates County and all counties affecte dby Seenca Lake (Ontario, Seneca). Consistent with local planning efforts.
Preserve existing ecosystem services and promote green infrastructure to reduce reliance on grey infrastructure	Rochester Museum and Science Center (RMSC) Green Innovations	Create a single high profile and accessible location where developers, municipal planners, and the general public can see several different green infrastructure practices in action and be educated in their function and implementation.	Monroe	x			\$525,000	CFA Application based on concept design	RMSC, Water Education Collaborative, Monroe County Stormwater Coalition	Education and validity of a variety of green infrastructure projects for commercial application								Benefits following subject areas: Land Use & Livability, Water Management, Economic Development, Climate Change Adaptation, Governance; Benefits the following Capitals: Human, Social, Natural, Built and Financial; Ability to be replicated in communities in multiple regions
Conserve water and leverage its value in energy production	Williamson WWTP Solar Panels and Improvements	Project components include: A 60 kw solar (photovoltaic) array producing as much as 80,000 of kWh each year resulting in a savings of over \$8000.00 per year, 1200 square feet of green roof reducing stormwater runoff, demand for heating and cooling and extending the life of the roof membrane, and the installation of an belowground storage tank and yard hydrant which will recycle rainwater for non-potable uses such as equipment cleaning and irrigation	Wayne	x			\$700,000	CFA Award	Town of Williamson	Reducing energy costs, reducing quantity of runoff, imporving quality of runoff. Imporvement of plant process								Benefits following subject areas: Land Use & Livability, Water Management, Economic Development, Climate Change Adaptation, Governance; Benefits the following Capitals: Human, Social, Natural, Built and Financial; Ability to be replicated in communities in multiple regions

Economic Development Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Embed the framework of this Plan into all planning, execution and measurement activities throughout the region	Regional Sustainable Innovation Fund	Provide funding to catalyze the deployment of new, innovative, sustainable technologies and products which are designed and manufactured by New York State companies	All	Y			\$5 Million	Proposed by Submitter	P2I/GIS NYSEDA	- Electric (kW) demand reduction - Impacts to infrastructure reliability and resilience - Deployment of NYS-based alternative, clean, and energy efficiency technologies which support regional economic growth and development - Financial mechanism to support long-term sustainment of manufacturers in the State	Finger Lakes Food Processing Cluster Initiative (FLFPCI)	●	◐	●	●	◐	●	Potential to benefit all capitals but Social
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	Integrating the Sustainable Production and Innovation Entrepreneurial Ecosystem of the Region	"connect the dots" between existing funding initiatives so that unseen opportunities can materialize for the benefit of the regional and state economy	All	Y			\$625,000	Proposed by Submitter	P2I/GIS NYSEDA	- Stakeholder engagement - Financial risk management/mitigation - Fostering greater accountability, transparency, and collaboration - Efficient use of regional resources for sustainable innovation, deployment, and entrepreneurship - Connecting entrepreneurs with viable opportunities for growing early-stage companies focused on sustainable production, products, innovation, and manufacturing - Enabling the regional transition to an advanced and sustainable manufacturing economy	- NY-BEST - Clean Energy Incubator - NYSEDA Entrepreneur-in-Residence Program - NYSEDA Proof-of-Concept Center	●	◐	●	●	◐	●	Potential to benefit all capitals but Social
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	Finger Lakes Business Accelerator Cooperative	Taken from REDC's 2012 Strategic Plan Progress Report - Create an interconnected network of business support services and incubation facilities that spans all nine counties of the region. The initiative will support the creation and growth of early-stage companies	All				\$18.5 Million	REDC Strategic Plan 2012 Update	HighTech Rochester			●	◐	●	●	●	◐	Identified by REDC as a Transformative Priority Project. Note: Project cost identified as \$35 Million in initial REDC Strategic Plan Potential to benefit all capitals but Social
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	PathStone Finger Lakes Enterprise Fund	Taken from REDC's 2012 Strategic Plan Progress Report - Create a revolving loan fund that is designed to address the specific needs of community-based micro and small business ventures.	All				\$4.2 Million	REDC Strategic Plan 2012 Update	PathStone Corporation			◐	◐	●	●	●	●	Identified by REDC as a Transformative Priority Project. Potential to benefit all capitals but not expressly natural
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	Regional Internal Harvesting and Economic Gardening	Taken from REDC's 2012 Strategic Plan Progress Report - Focuses on working with existing growth-oriented companies to help them expand	All				\$2 Million	REDC Strategic Plan	Greater Rochester Enterprise			◐	◐	●	●	●	●	Identified by REDC as a Priority Project. Potential to benefit all capitals not expressly Natural & Social
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	Finger Lakes Health Collaborative	Taken from REDC's 2012 Strategic Plan Progress Report	All				\$3 Million	REDC Strategic Plan	RBA & FLHSA			○	◐	●	●	●	●	Identified by REDC as a Priority Project. Benefits Land Use and Livable Communities and Economic Development subject areas. Benefits Economic, Human and Social capital
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	Golisano Institute for Sustainability at RIT	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe				\$107 Million	REDC Strategic Plan	RIT			●	●	◐	◐	●	◐	Identified by REDC as a Transformative Priority Project. Primarily benefits Monroe County (potential to benefit others)
Protect, enrich and market the unique natural, cultural, agricultural, and destination assets of the region.	Finger Lakes Museum	Taken from REDC's 2012 Strategic Plan Progress Report	Yates w/ Satellites				\$58.3 Million	REDC Strategic Plan	The Finger Lakes Cultural and Natural History Museum			◐	●	◐	●	●	◐	Identified by REDC as a Priority Project. Benefits Land Use and Livable Communities, Water Management, Ag & Forestry and Economic Development subject areas.

Economic Development Projects

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	Seneca AgBio Green Energy Park	Taken from REDC's 2012 Strategic Plan Progress Report - Develop an innovative program for agricultural processing and renewable energy production. Expand businesses and innovation	Seneca				\$8 Million	REDC Strategic Plan 2012 Update	Seneca BioEnergy			●	◐	○	●	●	◐	Identified by REDC as a Transformative Priority Project. Note: Project cost identified as \$16 Million in initial REDC Strategic Plan. Benefits all capitals but Social. Primarily benefits Seneca County
Expand and align training and education initiatives to target strategic sectors and meet the needs of existing and emerging industries.	Multiple Pathways to Middle Skills Jobs	Taken from REDC's 2012 Strategic Plan Progress Report	All				\$4.9 Million	REDC Strategic Plan 2012 Update	MCC			○	◐	●	●	●	◐	Identified by REDC as a Transformative Priority Project. Benefits Land Use and Livability, Economic Development. Benefits all capitals except Natural
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	Eastman Business Park	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe				\$579 Million	REDC Strategic Plan	US Renewables Group			◐	○	◐	●	●	◐	Identified by REDC as a Transformative Priority Project. Benefits Land Use and Livability, Economic Development. Benefits all capitals except Natural
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	Finger Lakes Small Business Expansion Fund	Taken from REDC's 2012 Strategic Plan Progress Report	All				\$9.2 Million	REDC Strategic Plan 2012 Update	FLREDC			○	○	●	●	●	◐	Identified by REDC as a Transformative Priority Project. Benefits Land Use and Livability, Economic Development, Transportation. Benefits Financial and Human Capital
Protect, enrich and market the unique natural, cultural, agricultural, and destination assets of the region.	Value Added Direct to Market Grants Program	Taken from REDC's 2012 Strategic Plan Progress Report - Provide funding that enables farms to build new structures, buy equipment, renovate buildings, and access working capital	All					REDC Strategic Plan 2012 Update	Farm Credit East			○	◐	●	●	◐	◐	Identified by REDC as a Priority Project. Benefits Land Use and Livability, Economic Development, Ag & Forestry. May not address Natural capital and Social capital
Invest in critical infrastructure to foster economic expansion and advance sustainable initiatives (access, function, resiliency)	Rochester Midtown Redevelopment and Tower	Taken from REDC's 2012 Strategic Plan Progress Report - Redevelopment of the Midtown parcel into a mixed-use area designed to attract a critical mass of residents, commercial activity, and amenities that will contribute to a vibrant work-life environment	Monroe				\$54.2 Million	REDC Strategic Plan 2012 Update	City of Rochester Christa/Morgan Management			◐	◐	○	◐	●	◐	Identified by REDC as a Transformative Priority Project. Note: Project cost identified as \$73.5 Million in initial REDC Strategic Plan. Benefits Land Use and Livability, Economic Development, Energy, Transportation, GHG Reduction. Benefits Built, Financial and Human Capital.
Invest in critical infrastructure to foster economic expansion and advance sustainable initiatives (access, function, resiliency)	CollegeTown	Taken from REDC's 2012 Strategic Plan Progress Report - Comprehensive plan to redevelop approximately 16 acres of University of Rochester-owned property in the City of Rochester and transform it into a vibrant neighborhood that will serve as a gateway to the City and the University	Monroe				\$90 Million	REDC Strategic Plan 2012 Update	College Town Rochester, LLC			◐	◐	○	●	◐	◐	Identified by REDC as a Transformative Priority Project. Benefits Land Use and Livability, Economic Development, Energy, Transportation, GHG Reduction. Benefits all capitals except Natural. Primarily benefits Rochester/Monroe County
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	Finger Lakes Clinical Quality Improvement Initiative	Taken from REDC's 2012 Strategic Plan Progress Report - Seek to achieve savings in healthcare costs by addressing unwarranted clinical variation, redundant tests, unproven treatments, and identifying alternatives to high-cost drugs and devices.	All				\$11 Million	REDC Strategic Plan 2012 Update	Regional Health Care Alliance			○	◐	◐	●	◐	◐	Identified by REDC as a Transformative Priority Project & 5-Year Pipeline Initiative. Benefits Land Use and Livable Communities and Economic Development. Benefits Financial, Social and Human capitals. Most communities would benefit
Invest in critical infrastructure to foster economic expansion and advance sustainable initiatives (access, function, resiliency)	Portageville Freight Rail Bridge Replacement Project	Taken from REDC's 2012 Strategic Plan Progress Report	Livingston				\$68.5 Million	REDC Strategic Plan 2012 Update				◐	○	◐	●	◐	◐	Identified by REDC as a 5-Year Pipeline Initiative. Benefits Energy, Transportation, Land Use and Livable Communities, Economic Development and GHG Reductions. Benefits Built, Financial & Human capitals. Primarily benefits Livingston County (potential for collateral benefit to surrounding counties).
Invest in critical infrastructure to foster economic expansion and advance sustainable initiatives (access, function, resiliency)	I-Square	Taken from REDC's 2012 Strategic Plan Progress Report - create an urbanstyle town square in the Town of Irondequoit, converting vacant buildings and housing into a mixed-use cultural district	Monroe					REDC Strategic Plan 2012 Update				○	◐	○	●	◐	◐	Identified by REDC as a Priority Project. Benefits Land Use and Livability, Economic Development. May not address Natural capital. Primarily benefits Irondequoit/Monroe County
Protect, enrich and market the unique natural, cultural, agricultural, and destination assets of the region.	Finger Lakes Regional Milk Production Growth Incentive Program	Taken from REDC's 2012 Strategic Plan Progress Report - Strengthen rural communities and help local dairy farmers meet the milk demands of the state's rapidly growing yogurt manufacturing sector	All				\$4 Million	REDC Strategic Plan 2012 Update	Farm Credit East			○	◐	○	●	◐	◐	Identified by REDC as a Priority Project. Benefits Economic Development and Ag & Forestry. Benefits Financial, Built and Human capitals. Primarily benefits Genesee County (potential to benefit others).

Economic Development Projects

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				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	The NewYork Battery and Energy StorageTechnology Consortium (NY-BEST)	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe				\$20.5 Million	REDC Strategic Plan	NY-BEST									Identified by REDC as a Priority Project. Benefits Economic Development, Energy. Benefits Financial, Built and Human capital. Primarily benefits Rochester/Monroe County (potential to benefit surrounding counties)
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	University of Rochester Health Sciences Center for Computational Innovation	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe				\$100 Million	REDC Strategic Plan	U of R									Identified by REDC as a Priority Project. Benefits Economic Development, Land Use and Livability. Benefits Financial, Built, Human and Social capitals. Primarily benefits Rochester/Monroe County (potential to benefit more)
Protect, enrich and market the unique natural, cultural, agricultural, and destination assets of the region.	Little Theatre Renovation	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe					REDC Strategic Plan 2012 Update										Identified by REDC as a Priority Project. Benefits Land Use and Livability, Economic Development. Benefits Built, Financial, Human and Social Capitals. Primarily benefits Rochester/Monroe County
Protect, enrich and market the unique natural, cultural, agricultural, and destination assets of the region.	Geva Theatre	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe					REDC Strategic Plan 2012 Update										Identified by REDC as a Priority Project. Benefits Land Use and Livability, Economic Development. Benefits Built, Financial, Human and Social Capitals. Primarily benefits Rochester/Monroe County
Protect, enrich and market the unique natural, cultural, agricultural, and destination assets of the region.	Finger Lakes Boating Museum	Taken from REDC's 2012 Strategic Plan Progress Report	Seneca					REDC Strategic Plan 2012 Update										Identified by REDC as a Priority Project. Benefits Land Use and Livability, Economic Development, Water Management. Benefits all capitals but Natural. Benefits Primarily Seneca County (potential to benefit surrounding counties)
Expand and align training and education initiatives to target strategic sectors and meet the needs of existing and emerging industries.	Finger Lakes Regional Center for Advanced Optics Manufacturing	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe					REDC Strategic Plan 2012 Update	U of R									Identified by REDC as a 5-Year Pipeline Initiative. Benefits Economic Development, Land Use and Livability. Benefits Built, Financial & Human capitals. Primarily benefits Rochester/Monroe County
Protect, enrich and market the unique natural, cultural, agricultural, and destination assets of the region.	2013 LPGA & PGA Championships	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe					REDC Strategic Plan 2012 Update										Identified by REDC as a Priority Project & 5-Year Pipeline Initiative. Benefits Land Use and Livable Communities, Economic Development. Benefits Financial, Social and Human capital. Primarily benefits Monroe County
Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.	Science Technology and Advanced Manufacturing Park (STAMP)	Taken from REDC's 2012 Strategic Plan Progress Report - A 1,243 acre site in Genesee County that will serve to attract the next generation of nano-technology companies (semiconductor and solar), bio-manufacturing, and advanced manufacturing to the state, create a high tech corridor spanning upstate, and drive significant regional economic growth	Genesee				\$250 Million	REDC Strategic Plan 2012 Update	Genesee Gateway Local Development Corp									Identified by REDC as a Tranformative Priority Project. Benefits Economic Development. Benefits Built, Human and Financial Capital. Primarily benefits Genesee County with collateral benefit to surrounding counties.

There was not sufficient information available to evaluate the following Projects. To provide a partial evaluation, each Project is sorted according to the evaluation of its associated Broad Strategy.

Identify, recruit and support entrepreneurial enterprises that have the potential to innovate consistent with the Story of Place, add value to all 5 capitals and have broad commercialization potential.																		
	Finger Lakes Procurement Consortium	Taken from REDC's 2012 Strategic Plan Progress Report	All															
	RIT Venture Creations	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe															
	Rochester BioVenture Center	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe															
	Finger Lakes Enterprise Fund	Taken from REDC's 2012 Strategic Plan Progress Report	All															
	Excell Partners	Taken from REDC's 2012 Strategic Plan Progress Report																
	Innovacracy	Taken from REDC's 2012 Strategic Plan Progress Report																
	Finger Lakes Food Processing Cluster	Taken from REDC's 2012 Strategic Plan Progress Report																
	Stem Cell Good Manufacturing Practice Lab	Taken from REDC's 2012 Strategic Plan Progress Report																

Economic Development Projects

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	Finger Lakes Regional Sustainable Packaging Project	Taken from REDC's 2012 Strategic Plan Progress Report																
	Buffalo East Technology Park	Taken from G/FLRPC's 2012 Comprehensive Economic Development Strategy (CEDS)	Genesee				\$12.0 Million+	CEDS	GCEDC/GGLDC									
	The Upstate Med-Tech Project: Develop a Regional Med-Tech Business Park (34 acres) and Commercialization Center (Accelerator facility)	Taken from G/FLRPC's 2012 CEDS	Genesee				Park: \$1.5-2.0M, Commercialization Center: \$7-\$8 Million	CEDS	GCEDC/GGLDC									
	Entrepreneurship Venture Capital	Taken from G/FLRPC's 2012 CEDS	Livingston				\$500,000	CEDS	Livingston County IDA									
	Hydrogen Economy	Taken from G/FLRPC's 2012 CEDS	Monroe				\$10,000,000 +	CEDS	Monroe County, City of Rochester									
	The Entrepreneurs Network	Taken from G/FLRPC's 2012 CEDS	Monroe				\$300,000	CEDS	Monroe County Department of Planning and Development									
	Eastman Business Park Upgrades	Taken from G/FLRPC's 2012 CEDS	Monroe				\$13,000,000+	CEDS	Monroe County, City of Rochester									
	Cornell Agriculture and Food Technology Park Finger Lakes Food Innovation Center	Taken from G/FLRPC's 2012 CEDS	Ontario				\$7,000,000	CEDS	Ontario County OED/IDA									
	Smart System Technology and Commercialization Center (STC)	Taken from G/FLRPC's 2012 CEDS	Ontario				\$6,400,000	CEDS	Ontario County OED/IDA									
	Small Business Assistance	Taken from G/FLRPC's 2012 CEDS	Seneca				\$1,000,000	CEDS	Seneca County Workforce Development									
	Alternative Energy Initiatives- Wind-tamer turbines/bioenergy manure digester processing	Taken from G/FLRPC's 2012 CEDS	Wyoming				\$4.5 Million	CEDS	Wyoming County Business Center									
	Develop Lower Cost of Power Solution(s): Cogeneration, Alternative Energy to lower power costs businesses	Taken from G/FLRPC's 2012 CEDS	Genesee				\$1 Million	CEDS	GCEDC/GGLDC									
	Mill Seat Landfill Bioreactor	Taken from G/FLRPC's 2012 CEDS	Monroe				\$12,000,000	CEDS	Monroe County DES									
	Ontario County Alternative Energy Park Infrastructure	Taken from G/FLRPC's 2012 CEDS	Ontario				\$1,500,000	CEDS	Ontario County OED/IDA									
	Wayne Industrial Sustainability Park and pod infrastructure improvements—Ontario pod/Northeast Quadrant pod/Silver Hill Technology Pod	Taken from G/FLRPC's 2012 CEDS	Wayne				\$7.10 Million	CEDS	Wayne County IDA									
	Increase economic viability and growth of the Finger Lakes Food Processing Cluster by improving environmental, energy and economic practices of these businesses	Invest in sustainable innovation of the regional food processing processes	All						Organizations that provide environmental technical assistance services, especially those focus on process improvement/green engineering, NYS21, academic institutions									
Invest in critical infrastructure to foster economic expansion and advance sustainable initiatives (access, function, resiliency)												●	◐	●	●	●	●	◐
	Genesee Valley Agribusiness Park (202 acres)	Taken from G/FLRPC's 2012 CEDS	Genesee				\$10 Million	CEDS	GCEDC/GGLDC									
	Re-development of the Batavia/Downtown Corridor	Taken from G/FLRPC's 2012 CEDS	Genesee				\$5.0 Million	CEDS	GCEDC/GGLDC									
	Assist Community Development via Main Street Projects, Housing issues and Quality of Life	Taken from G/FLRPC's 2012 CEDS	Genesee				\$3 Million	CEDS	GCEDC/GGLDC									
	Multi-Tenant building at Dansville Industrial Park	Taken from G/FLRPC's 2012 CEDS	Livingston				\$2 million	CEDS	Livingston County IDA									
	Photech Site	Taken from G/FLRPC's 2012 CEDS	Monroe				\$10-\$20 million	CEDS	City of Rochester									
	Vacuum Oil Site	Taken from G/FLRPC's 2012 CEDS	Monroe				\$10-\$20 million	CEDS	City of Rochester									
	Albion Business Park Development	Taken from G/FLRPC's 2012 CEDS	Orleans				\$500,000	CEDS	County of Orleans IDA									
	Keppler Site Shovel Ready	Taken from G/FLRPC's 2012 CEDS	Orleans				\$1,025,000	CEDS	County of Orleans IDA									
	Medina Park Spec Building	Taken from G/FLRPC's 2012 CEDS	Orleans				\$3,000,000	CEDS	County of Orleans IDA									
	Medina Park Shovel Ready	Taken from G/FLRPC's 2012 CEDS	Orleans				\$690,000	CEDS	County of Orleans IDA									

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	Demolition of derelict and unneeded buildings and facilities at the Seneca Army Depot	Taken from G/FLRPC's 2012 CEDS	Seneca				\$5.5 Million	CEDS	Seneca County IDA									
	Improve Downtowns	Taken from G/FLRPC's 2012 CEDS	Wayne				\$240,000 start up program	CEDS	TBD									
	Redevelopment of A&A Facility in Perry	Taken from G/FLRPC's 2012 CEDS	Wyoming				\$2 million	CEDS	Wyoming County Business Center									
	Perry Business and Technology Park	Taken from G/FLRPC's 2012 CEDS	Wyoming				\$2.2 Million	CEDS	Wyoming County Business Center									
	Digital Infrastructure andTransportation Asset Inventory	Taken from REDC's 2012 Strategic Plan Progress Report																
	Rebuild and Repair of Rail line to Dansville Properties	Taken from G/FLRPC's 2012 CEDS	Livingston				\$2.5 million	CEDS	Livingston County IDA/G&W RR									
	Completion of Infrastructure at Crossroads Commerce Park, Avon	Taken from G/FLRPC's 2012 CEDS	Livingston				\$1 million	CEDS	Livingston County IDA									
	Rochester District Heating Cooperative System Improvements	Taken from G/FLRPC's 2012 CEDS	Monroe				\$12,400,000	CEDS	Monroe County, City of Rochester									
	Emerson Street landfill area	Taken from G/FLRPC's 2012 CEDS	Monroe				TBD	CEDS	City of Rochester									
	Fiber Optic Ring	Taken from G/FLRPC's 2012 CEDS	Ontario					CEDS	Ontario County									
	Orleans Fiber Optic Pipe	Taken from G/FLRPC's 2012 CEDS	Orleans				\$500,000	CEDS	County of Orleans IDA									
	Rail Infrastructure Expansion/Development	Taken from G/FLRPC's 2012 CEDS	Orleans				\$2.5 Million	CEDS	County of Orleans IDA									
	Electrical Upgrade – Seneca Army Depot	Taken from G/FLRPC's 2012 CEDS	Seneca				\$8.0 Million	CEDS	Seneca County IDA									
	Infrastructure Improvements at the Seneca Army Depot – water, sewer, roads, rail and drainage	Taken from G/FLRPC's 2012 CEDS	Seneca				\$12 Million	CEDS	Seneca County IDA									
	Route 318 Sewer Expansion/Upgrades to Connections	Taken from G/FLRPC's 2012 CEDS	Seneca				\$4.50	CEDS	Seneca County									
	Industrial Road-Town of Ontario in its entirety, Beh to Lincoln	Taken from G/FLRPC's 2012 CEDS	Wayne				\$5 Million	CEDS	Wayne County IDA; Town of Ontario									
	Water/sewer Improvements Town of Wolcott/Village of Red Creek	Taken from G/FLRPC's 2012 CEDS	Wayne				TBD	CEDS	Wayne County									
	Bridge Improvements	Taken from G/FLRPC's 2012 CEDS	Wayne				TBD	CEDS	New York State DOT									
	Lyons Industrial Park Development (highway, rail, possible water access) Multi modal transportation and logistics site	Taken from G/FLRPC's 2012 CEDS	Wayne				\$7-\$18 million	CEDS	Wayne County IDA; Town of Lyons									
	Fiber Optic Infrastructure (last mile)	Taken from G/FLRPC's 2012 CEDS	Wayne				\$2 Million	CEDS	Wayne County									
	Wyoming County Rail Initiative	Taken from G/FLRPC's 2012 CEDS	Wyoming				\$1.5 Million	CEDS	Wyoming County IDA									
	Installation of Fiber Optic Cable into and throughout Yates County	Taken from G/FLRPC's 2012 CEDS	Yates				\$2,200,000	CEDS	Yates County Government & Finger Lakes EDC									
	Dundee Waste Water Treatment Plant Upgrades	Taken from G/FLRPC's 2012 CEDS	Yates				\$2,000,000	CEDS	Finger Lakes EDC, Village of Dundee									
	Route 14 Eastern Corridor Water District	Taken from G/FLRPC's 2012 CEDS	Yates				\$15,700,000	CEDS	Finger Lakes EDC, Yates County, Town of Torrey, Town of Milo, and Penn Yan Village									
	Keuka Park Water District Water Main Replacement	Taken from G/FLRPC's 2012 CEDS	Yates				\$1,875,000	CEDS	Town of Jerusalem									
	Keuka Street Water and Sewer Replacements	Taken from G/FLRPC's 2012 CEDS	Yates				\$1,700,000	CEDS	Penn Yan Village									
	Elmwood Avenue Railroad Siding	Taken from G/FLRPC's 2012 CEDS	Yates				\$1,150,000	CEDS	Penn Yan Village									
	Branchport/West Bluff Drive Sewer District , Jerusalem	Taken from G/FLRPC's 2012 CEDS	Yates				\$7,175,000	CEDS	Finger Lakes EDC									
	Torrey Water District #1 , Torrey	Taken from G/FLRPC's 2012 CEDS	Yates				\$4,000,000	CEDS	Finger Lakes EDC									
	Downtown Revitalization	Taken from G/FLRPC's 2012 CEDS	Livingston				\$100,000	CEDS	Livingston County Development Corporation									
	Buy Local Campaign	Taken from G/FLRPC's 2012 CEDS	Livingston				\$100,000	CEDS	Livingston County Development Corporation									
	PORT of Rochester	Taken from G/FLRPC's 2012 CEDS	Monroe				\$146 Million	CEDS	City of Rochester									

Economic Development Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
	Sustainability Plan Implementation Grant Program	Provide funds (perhaps with match) for government and industry that prepares plans to implement priority projects.	All				\$10 Million/yr	Recommended by submitter based on Average 20 projects per year at average cost of \$500,000 per project	NYSERDA, Regional NFP, Supplement for existing state grants through CFA	1) Shares responsibility for achieving regional strategies with local governments and industry; 2) provides incentive to do plans; 3) provides start-up money for projects with longer term payoffs; 4) expands number of recipients of other applicable state and federal grant programs.								
	Regional Sustainability Project	Fund would provide short term "gap financing" money for these projects, with original amount, plus modest interest repaid with reimbursement.	All						Government or NFP, IDAs, Enterprise Funds	Allows interested governments, corporations, individuals lacking upfront costs to bridge funding gap until sustainability project funds are awarded or until cost savings repay loans.								
	Sustainable Communities and Sustainable Industries Planning Incentives Program	Communities, insitutions, and businesses would receive incentives to prepare their own plans to implement regional strategies on local, individualized basis. Region would provide some % of cost as incentive to prepare stategic plans. Plans would cover similar topics as regional plans and select implementation strategies from recommendations in the regional plan that were appropriate based upon type, location, size, and resources.	All				\$1 Million/yr	Recommended by Submitter										
	Rochester & Southern Railroad (RSR) Rehabilitation Project Between Dansville and Mt. Morris	Rehabilitation of section of rail infrastructure critical to the ongoing operations and anticipated future expansion					\$2.54M estimated	Preliminary engineering cost estimates prepared by the RSR Agency: Livingston County IDA		1. Keep LMC in operation, 2. Provide opportunity for LMC to expand operations 3. May provide opportunities to attract new customers; 4. Using freight trains over trucking is more environmentally friendly and ; 5. Fewer trucks on the road, helping to reduce costs associated with road and bridge maintenance and repair.								
Expand and align training and education initiatives to target strategic sectors and meet the needs of existing and emerging industries.												◐	◐	●	●	●	●	
	NewYork State Pollution Prevention Institute at RIT	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe															
	Finger Lakes Community College Viticulture and WineTechnology Facility	Taken from REDC's 2012 Strategic Plan Progress Report	Ontario															
	Entrepreneurship Training	Taken from G/FLRPC's 2012 CEDS	Livingston				\$20,000	CEDS	Livingston County IDA									
Protect, enrich and market the unique natural, cultural, agricultural, and destination assets of the region.												◐	◐	●	●	●	●	
	Muller Quaker	Taken from REDC's 2012 Strategic Plan Progress Report	Genesee															
	Veterans Memorial Cemetery	Taken from G/FLRPC's 2012 CEDS	Seneca				\$3,170,000	CEDS	Seneca County									
	Waterfront Redevelopment Infrastructure Improvements	Taken from G/FLRPC's 2012 CEDS	Yates				\$2,500,000	CEDS	Finger Lakes EDC, Yates County, Penn Yan, Milo									
	PathThrough History Initiative	Taken from REDC's 2012 Strategic Plan Progress Report	All															
	Genesee Country Village and Museum	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe															
	Seneca Park Zoo	Taken from REDC's 2012 Strategic Plan Progress Report	Monroe															
	Seneca Arts and Cultural Center at Ganondagan State Historic Site	Taken from REDC's 2012 Strategic Plan Progress Report	Ontario															
	Sonnenberg Gardens & Mansion State Historic Park	Taken from REDC's 2012 Strategic Plan Progress Report	Ontario															
	Letchworth State Park Signage	Taken from REDC's 2012 Strategic Plan Progress Report	Livingston															

Economic Development Projects

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	Recreation and Water Quality Special Projects Fund	Assist in funding research and management programs for water recreation and water quality in the Finger Lakes. Need coordinated, ongoing and dependable program to avoid future resource degradation.	All				\$500,000/yr	Recommended by submitter based on existing programs	FL-LOWPA, Center for Environmental Initiatives (CET)	1) Ongoing source of funding for research and projects relating to water quality; 2) maintaining regional lakes and rivers for recreation; 3) local improvement in Regional Sustainability Plan implementation related to water, recreation, land use and tourism								
	Sustainability Heritage Program	Provide funds for identification, interpretation and restoration of places/structures prominent to the history and growth of the region that contributed to on exhibited sustainable practices. Could be hyro facilities, windmills, irrigation, nursery/seed industry, technology research, energy savings/pollution reduction industries, etc.	All				\$1 Million/yr	Recommended by submitter based on Funding for other hisotric preservation and tourism promotion programs.	Landmark society, museum, regional tourism offices	1) Reinforces perception of importance of sustainability; 2) recognizes local history and individual/industry contribution; 3) provides additional funding for historic preservation; 4) enhances tourism: Regional Sustainability Tral								

Climate Change Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Upgrade existing assets	Wayne County Comprehensive Shoreline Management Project	Elevation site assessment and risk analysis of built environment and development of cost estimates for repairing and relocating facilities. Will serve as the basis to modify comprehensive plans	Wayne	X			\$300,000	Grant submission - Great Lakes Restoration Initiative	Wayne County	Plan for climate change, improve water management, provide technical resources to local gov't to		●	●	◐	●	●	●	Benefits following subject areas: Transportation, Land Use & Livability, Water Management, Economic Development, Climate Change Adaptation, Governance; Benefits the following Capitals: Human, Social, Natural, Built and Financial; Ability to be replicated in communities in multiple regions; consistent with Great Lakes Restoration Initiative and Wayne County All Hazard Multi-jurisdictional Mitigation Plan
Upgrade existing assets	Green Genesee Roadmap	Support the development of an interconnected, functional ecosystem by conducting an inventory and providing a science-based, community-based tool to optimize land use by understanding ecosystem components, environmental services, and functions, as well as goals for preservation, restoration, and enhancement of the ecological networks.	Genesee	X			unknown	N/A	Genesee County	Provide technical resource for land, water resource, transportation, agriculture, forestry and climate change adaptation planning		●	●	●	●	●	◐	Benefits following subject areas: Transportation, Land Use & Livability, Water Management, Economic Development, Climate Change Adaptation, Governance; Benefits the following Capitals: Human, Social, Natural, Built and Financial; Ability to be replicated in communities in multiple regions; consistent with Genesee County Hazard Mitigation Plan
Enhance mutual aid and support among neighboring communities, counties, and regions	Finger Lakes Climate Change Adaptation Leadership and Resilience Council	Provide a 12-month process that aligns regional stakeholders and yields a pragmatic and defined outcome for continuing research, education, and training on climate change adaptation.	All	X			\$150K	NYSERDA Regional Greenhouse Gas Initiative	NYSERDA	Will result in a comprehensive "Climate Adaptation and Resilience Operating Plan" which the region will use to prepare for the future taking into consideration Climate Adaptation requirements of the region; will bring together regional stakeholders so that clear strategies, goals, and processes can be put into place which will enhance mutual aid and support among neighboring communities, counties, and regions to share, develop, and create capabilities, resources, and special assets toward Climate Adaptation requirements; will reduce the future risk of the region regarding responding to emergency events and/or longer-term shifts in the natural and social environment as impacted by Climate Change; will align its efforts with other mutual activities within the region		●	●	●	●	○	●	Benefits all subject areas; Benefits all Capitals; Ability to be replicated in communities in multiple regions
Upgrade existing assets	Plan Bv7	A sustainable approach to water level regulation in Lake Ontario and the St. Lawrence River that will take steps to restore the shoreline habitats of the lake and river.	Orleans, Monroe, Wayne		X		unknown	N/A				◐	◐	◐	●	◐	◐	Benefits following subject areas: Land Use & Livability, Water Management, Economic Development, Climate Change Adaptation, Governance; Benefits the following Capitals: Human, Natural, Built and Financial; benefits multiple communities in Orleans, Monroe, and Wayne Counties
Create self-sufficient "places of refuge"	Batavia Community Hydroelectric Microgrid	Provide renewable electricity to fire department and ice arena, creating a self-sufficient "place of refuge".	Genesee		X		unknown	N/A	City of Batavia	Potential to have both municipal facilities' electricity needs fully self-sustaining on renewable electricity generated from the Tonawanda Creek, enhance the economic viability of the ice arena, and the potential to create a self-sufficient "place of refuge" as the ice arena's occupancy is 480 people		◐	●	○	◐	◐	◐	Benefits following subject areas: Energy, Water Management, Economic Development, Climate Change Adaptation; Benefits the following Capitals: Human, Social, Natural, Built and Financial; consistent with Genesee County Comprehensive Plan
Enhance mutual aid and support among neighboring communities, counties, and regions	Resilient Communications and Emergency Response	Use Eco-IT and renewable energy systems tied to back-up power generation.	All	X			\$2.5M	NYSERDA	NYSERDA	Tangible electric (kW) demand reduction, electricity (kWh) savings; Tangible electric and operating cost savings; Quantifiable impacts to infrastructure reliability and resilience; Deployment of NYS-based alternative, clean, and energy efficiency technologies which support regional economic growth and development		○	◐	●	◐	○	◐	Benefits following subject areas: Energy, Climate Change Adaptation, Governance; Benefits the following Capitals: Human, Built and Financial; Ability to be replicated in communities in multiple regions

Governance Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
GOVERNANCE - Encourage regional cooperation and coordination	Finger Lakes Regional Sustainability Plan	Undertake revisions to, and implement the recommendations, of the Finger Lakes Regional Sustainability plan on an ongoing basis.	All	X					NYSERDA, GTC, REDC, G/FLRPC			●	●	●	●	●	●	This project benefits all subject areas and all five capitals. It has the potential to benefit all counties, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with regional and local planning efforts. It can have low to medium order of magnitude costs (including capital projects), with lower life cycle costs over the long term. It also has potential to leverage other funding sources.
GOVERNANCE - Encourage regional cooperation and coordination	Finger Lakes Climate Change Adaptation Leadership and Resilience Council	This project is aimed at aligning regional leadership and resources toward research, education and training to solve local problems; and develop processes to identify and share critical resources.	All	X					NYSERDA			●	●	●	●	◐	●	This project benefits all subject areas and all five capitals. It has the potential to benefit all counties, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with regional and local planning effort, but not specifically mentioned. It can have low to medium order of magnitude costs, with lower life cycle costs over the long term. It also has potential to leverage other funding sources.
GOVERNANCE - Promote the development of local and regional sustainability initiatives to serve as a dynamic means of supporting the goals of the Regional Sustainability Plan across all subject areas	Town of Perry Comprehensive Planning Approach	In conjunction with the development of a Comprehensive Plan, the Town of Perry plans to develop an integrated Farmland Protection Plan and Energy Policy. The intent is to combine the inventory of existing conditions and assets to provide efficiency and ensure consistency across the three documents. By developing the three documents concurrently, the recommendations of the Farmland Protection Plan and Energy Policy can be incorporated into the Comprehensive Plan including strategies to protect agriculture (i.e. zoning districts, conservation easements, purchase of development rights) and support an energy policy (i.e. changes in Energy Conservation Code, NYS adoption of the Green LEED bill, adoption of the Green Construction Code of NYS, and the NYS Climate Smart Communities program).	All	X					Wyoming County, Town of Perry			◐	◐	○	●	◐	●	This strategy benefits energy, land use and livability, economic development, agriculture/forestry and governance. This project also benefits four of the five capitals and has the potential to benefit Wyoming County, and could be replicated in other areas. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with local planning efforts. It can have low to medium order of magnitude costs, with lower life cycle costs over the long term. It also has potential to leverage other funding sources.
GOVERNANCE - Promote the development of local and regional sustainability initiatives to serve as a dynamic means of supporting the goals of the Regional Sustainability Plan across all subject areas	Wayne County Lakeshore Management Project	This project will utilize LIDaR imaging and GIS analysis to identify areas most at risk of severe weather events. It will allow for the creation of climate adaption plans and enable municipalities to modify land use laws to incorporate climate change criteria for new development.	Wayne County	X					Wayne County			◐	◐	○	●	◐	●	This project benefits land use and livability, water management, climate change and governance. This project also benefits four of the five capitals and has the potential to benefit Wayne County, but could be replicated in other lakeshore counties. Implementation could be accomplished in a relatively short term (less than 10 years). This strategy is consistent with local planning efforts. It can have low to medium order of magnitude costs, with lower life cycle costs over the long term. It also has potential to leverage other funding sources.

Agriculture Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with planning Efforts	Financial Feasibility	
Holistic Food System	Headwater Food Hub	The Headwater Food Hub will support the regional food system by managing supply chain logistics, aggregation, distribution, and sales of local, sustainable, source-identified foods from a network of partner farms, including their own, and from local food producers.	All	x			\$1,035,000	Project manager's construction estimates	Headwater Foods	The Headwater Food Hub will support the viability of small to mid-sized farms by working in partnership with farmers to connect the region's agricultural products to the substantial market that exists locally and across the northeast. The operation of this carbon-neutral food processing facility is expected to create 15 new jobs.	Headwater Food Hub	●	●	●	●	●	●	<p>Subject Areas: Economic Development, Transportation, Energy, Land Use, Waste, Ag/Forestry, Climate Change, GHG Emissions</p> <p>Capitals: Human, Social, Natural, Built, Financial</p> <p>Communities: Many counties will benefit from the agricultural market and food system advantages produced by the Food Hub</p> <p>Implementation Feasibility: Established support network in food hub partners</p> <p>Planning Efforts: Consistent with overall goals of many ag-related plans in region at state and local level</p> <p>Financial Feasibility: Existing Project</p>
Bio-energy Production	Seneca AgBio Green Energy Park	Agricultural and Renewable Energy Program with projects including grape waste processing, grapeseed oil production, and biodiesel production. Project currently delayed.	Seneca	x			\$8,000,000	FLREDC 2012 Progress Report	Seneca BioEnergy	Four companies within the Seneca AgBio Green Energy Park are investing \$8 million for redevelopment of site infrastructure, equipment purchases, pilot scale technology development, agricultural contracts fulfillment, and commercial operations of their green energy and environmental technologies for biodiesel and biomaterials production and biomass processing.	Seneca BioEnergy	●	●	●	●	●	●	<p>Subject Areas: Ag/Forestry, Energy, Waste, Economic Development, Transportation, Climate Change, GHG</p> <p>Capitals: Human, Social, Natural, Financial, Built</p> <p>Communities: All counties could receive direct or indirect benefits</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Called for in FLREDC Economic Development Plan as a Priority Project, consistent with goals of many regional documents</p> <p>Financial Feasibility: Existing Project</p>
Outreach and Communication	Annual Decision-Maker's Tour of Agriculture in Livingston County	Local planning and zoning officials earn educational credits for participating in an annual tour of agriculture within Livingston County.	Livingston	x					Livingston County Planning Department	The goal of the annual tour is to educate decision-makers and leaders in Livingston County as to the community benefits and challenges of the local agricultural sector and enhance the community connections between decision-makers and farm operators.	Livingston County Planning Department	◐	◐	●	●	●	●	<p>Subject Areas: Ag/Forestry, Economic Development, Land Use, Governance</p> <p>Capitals: Natural, Built, Social, Human</p> <p>Communities: All communities can benefit</p> <p>Implementation Feasibility: techniques already in use</p> <p>Planning Efforts: Consistent with overall planning goals of many plans</p> <p>Financial Feasibility: Existing Project</p>
Holistic Food System	Finger Lakes Food Processing Cluster Initiative	Leveraging the Jobs and Innovation Accelerator Grant from US Economic Development Agency and SBA and NYS to support this coordinated initiative that provides assistance, training, and collaborative partnerships. Project is underway.	All	x			Undetermined (\$1.9 million in funding dedicated to date)	FLREDC 2012 Progress Report	RIT, Monroe and Genesee Community Colleges, others	The Food Processing Cluster Initiative aims to implement sustainable manufacturing process technologies to minimize environmental impacts and open market opportunities.	Partnership between educational institutions and private sector	◐	◐	●	●	●	●	<p>Subject Areas: Economic Development, Ag/Forestry, Climate change, GHG</p> <p>Capitals: Human, Social, Financial</p> <p>Communities: Many counties will benefit from this project</p> <p>Implementation Feasibility: Project is underway</p> <p>Planning Efforts: Consistent with multiple economic development plans</p> <p>Financial Feasibility: Existing Project</p>
Workforce Development	Finger Lakes Community College Viticulture and Wine Technology Facility	Helping to meet demands for skilled workers in region's vineyards. \$3.3 million included in state budget to construct classroom, lab, teaching winery facilities. Construction Underway anticipated completion fall 2013.	All	x			\$3,300,000	FLREDC 2012 Progress Report	Finger Lakes Community College	The Finger Lakes Community College (FLCC) Viticulture and Wine Technology Facility will help meet the urgent and growing demands for skilled workers by the region's vineyards.		◐	◐	●	●	●	●	<p>Subject Areas: Economic Development, Ag/Forestry, Land Use, Waste, Energy</p> <p>Capitals: Human, Financial, Built</p> <p>Communities: All counties could see direct or indirect benefits from this investment</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Called for by FLREDC and consistent with goals of other regional planning documents</p> <p>Financial Feasibility: Existing Project</p>

Agriculture Projects

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Outreach and Communication	Agricultural Events	Support regional agricultural initiatives such as the Wyoming County Dairy Institute, Agri-Palooza, and Celebrate-Ag (taken from G/FLRPC's 2012 CEDS)	All	x			Undetermined		G/FLRPC	Makes funding available for assorted agricultural ventures addressing a variety of specific issues	G/FLRPC							<p>Subject Areas: Economic Development, Ag/Forestry, Land Use/Livable Communities, Materials/Waste Management</p> <p>Capitals: Social, Human, Natural, Financial</p> <p>Communities: All communities have potential of benefit if they have or start one of these initiatives</p> <p>Implementation Feasibility: Support networks already in place for existing events</p> <p>Planning Efforts: Consistent with G/FLRPC 2012 CEDS</p> <p>Financial Feasibility: Established sources for existing initiatives,</p>
Holistic Food System	Finger Lakes Enterprise Fund (PathStone)	Loans with flexible terms to support main street businesses and value added agriculture	All	x			\$4,175,000	FLREDC 2012 Progress Report	PathStone Corporation	PathStone will invest a total of \$3.3 million over a three-year period and is committed to providing at least 33 percent of total support from the fund to minority-and women-owned businesses. PathStone estimates that this activity will create and retain 284 jobs.	PathStone Corporation							<p>Subject Areas: Economic Development, Ag/Forestry, Land Use, Transportation</p> <p>Capitals: Social, Human, Built, Financial</p> <p>Communities: All counties could see direct or indirect benefits</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Consistent with goals of REDC, which reflect many regional planning documents</p> <p>Financial Feasibility: Existing Project</p>
Holistic Food System	Foodlink Food Hub Expansion	Funding to expand facilities	All	x			Undetermined	FLREDC 2012 Progress Report	Foodlink	This project allows FoodLink to increase the size and capacity of its food storage, processing, and distribution facilities to accommodate increasing demand to supply food to hospitals, schools, corner stores, and the emergency food network in the Finger Lakes region.	Foodlink regional food bank							<p>Subject Areas: Ag/Forestry, Economic Development, Transportation, Energy</p> <p>Capitals: Social, Human, Natural, Built</p> <p>Communities: All communities could benefit directly or indirectly from this investment</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Called for in FLREDC Economic Development Plan and Consistent with overall goals of many regional planning documents</p> <p>Financial Feasibility: Existing Project</p>
Outreach and Communication	Dairy Profit Teams	NYFVI grant helped fund pilot program where dairy farmers get one-on-one attention with a group of industry consultants in all different areas to help efficiently and cooperatively offer solutions tailored to individual issues	All	x			Undetermined		NYFVI	Allows farmer to access many sources of information regarding profitability and sustainability in one sitting, increasing efficiency	New York Farm Viability Institute's funded projects							<p>Subject Areas: Economic Development, Ag/Forestry, Transportation, Climate Change, GHG, Energy</p> <p>Capitals: Natural, Human, Social</p> <p>Communities: All counties could potentially benefit from this type of investment, directly or indirectly</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Consistent with goals of NYFVI and overall goals of other regional documents</p> <p>Financial Feasibility: Existing Project</p>
Holistic Food System	Precision Feeding Initiative	NYFVI grant helped fund pilot project involving measurement and analysis of fertilizer inputs to find inefficiencies	All	x			Undetermined		NYFVI	Reduces feed waste and unnecessary environmental harm from maure nutrient runoff	New York Farm Viability Institute's funded projects							<p>Subject Areas: Economic Development, Ag/Forestry, Transportation, Climate Change, GHG, Energy</p> <p>Capitals: Natural, Human,</p> <p>Communities: All counties could potentially benefit from this type of investment, directly or indirectly</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Consistent with goals of NYFVI and overall goals of other regional documents</p> <p>Financial Feasibility: Existing Project</p>

Agriculture Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Holistic Food System	Rochester Public Market Planned Expansion	\$10 Million planned expansion	Monroe	x			\$10,000,000	FLREDC 2012 Progress Report	City of Rochester	The City of Rochester has recently completed a master plan for the expansion of its nationally-recognized Public Market. The \$10 million in enhancements will further develop this unique asset as a destination, while strengthening its connections with the region's farmers and small businesses.	Rochester Public Market							<p>Subject Areas: Ag/Forestry, Economic Development, Land Use, Climate Change,</p> <p>Capitals: Natural, Human, Built, Financial</p> <p>Communities: All Counties have the potential of benefit directly or indirectly</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Called for in FLREDC Plan and consistent with goals of many regional planning documents</p> <p>Financial Feasibility: Existing Project</p>
Bio-energy Production	Farm Energy Sustainability Plans	Energy analysts and farm service providers review loads, timing, motor efficiencies, lighting and fuel use to find demand efficiencies. Plans may also review potential for on-site renewable energy production, including biogas, wind, solar, and biofuels.	All	x					Private consultants, USDA/NRCS Technical Service Providers, Utility services	Increase farm energy efficiency, decrease overall farm energy demand, and increase on-site power generation.	Existing efforts on behalf of consultants, service providers, and utilities							<p>Subject Areas: Waste, Economic Development, Ag/Forestry, Energy</p> <p>Capitals: Natural, Human, Built</p> <p>Communities: All counties could benefit from these plans</p> <p>Implementation Feasibility: Established support network</p> <p>Planning Efforts: Consistent with overall planning goals of REDC, which reflect many regional planning documents</p> <p>Financial Feasibility: Low Start-up cost</p>
Outreach and Communication	Conference Sessions	Continue efforts to educate economic development stakeholders on agricultural issues through sessions at the Local Government Workshop	All	x			Undetermined		G/FLRPC	Increases awareness of agricultural issues among local government decision-makers	G/FLRPC							<p>Subject Areas: Ag/Forestry, Economic Development, Governance</p> <p>Capitals: Natural, Built, Social, Human</p> <p>Communities: All communities can benefit</p> <p>Implementation Feasibility: techniques already in use</p> <p>Planning Efforts: Consistent with overall planning goals of many plans</p> <p>Financial Feasibility: low initial cost, could see benefits starting after first workshop</p>
Holistic Food System	Finger Lakes Regional Milk Production Growth Incentive Program	Project will help local farmers meet growing milk demands of yogurt sector by addressing capital needs of dairy operations looking to expand	Genesee	x			Undetermined (\$5 million in pending funding)	FLREDC 2012 Progress Report	Farm Credit East	This program will strengthen rural communities and help local dairy farmers meet the milk demands of the state's rapidly growing yogurt manufacturing sector – two new plants in Genesee County alone will double the region's milk processing capacity.	Farm Credit East							<p>Subject Areas: Ag/Forestry, Economic Development</p> <p>Capitals: Financial, Built, Human</p> <p>Communities: Potential for direct/indirect benefits in all counties</p> <p>Implementation Feasibility: Existing project</p> <p>Planning Efforts: Called for by FLREDC and consistent with multiple regional documents</p> <p>Financial Feasibility: Existing project</p>
Holistic Food System	Value Added Direct to Market Grants Program	Pending funding, project will assist estimated 40 farms pursue value added/direct to market strategies. Provides funding for farmers to build new structures, buy equipment, renovate buildings, and access working capital.	All	x			Undetermined	FLREDC 2012 Progress Report	Farm Credit East	The Value Added Direct to Market Grants Program will provide funding that enables farms to build new structures, buy equipment, renovate buildings, and access working capital. Pending funding approval, the project will assist an estimated 40 farms to pursue value-added or direct-to-market strategies.	Farm Credit East							<p>Subject Areas: Ag/Forestry, Economic Development, Land Use</p> <p>Capitals: Financial, Built, Human</p> <p>Communities: All communities could see direct/indirect benefits</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Called for by FLREDC and many regional agricultural development documents</p> <p>Financial Feasibility: Existing Project</p>

Agriculture Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Holistic Food System	Muller Quaker Yogurt Plant	New large yogurt plant in Genesee County supported by \$13 Million in State Tax Credits.	Genesee	x			\$208,000,000	FLREDC 2012 Progress Report	PepsiCo / Theo Muller Group	Muller Quaker is a joint venture between PepsiCo and the Theo Muller Group to create one of the country's largest yogurt manufacturing plants in Genesee County. At full build-out, the project will create 800 jobs.	PepsiCo and Theo Muller Group							<p>Subject Areas: Ag/Forestry, Economic Development</p> <p>Capitals: Built, Financial, Human</p> <p>Communities: All communities could benefit directly or indirectly from the jobs and new demand created by the new plant</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Called for in FLREDC Economic Development Plan and consistent with overall goals of many regional planning documents</p> <p>Financial Feasibility: Existing Project</p>
Commercialization Partners	Finger Lakes Regional Sustainable Packaging Project	Project working with companies on sustainable packaging at RIT. CFA submitted in 2012	All	x			Undetermined	FLREDC 2012 Progress Report	RIT Finger Lakes Sustainable Packaging Project	RIT's Finger Lakes Regional Sustainable Packaging Project will establish the region as an innovator and leader in the rapidly growing field of sustainable packaging. This project will open up new markets for the food processors in the region.	RIT							<p>Subject Areas: Ag/Forestry, Economic Development, Materials/Waste, Energy</p> <p>Capitals: Human, Financial, Natural, Social</p> <p>Communities: All communities could see direct or indirect benefits</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Consistent with FLREDC Economic Development plan and consistent with other regional documents</p> <p>Financial Feasibility: Existing Project</p>
Sector-scale diversity	Finger Lakes Small Business Expansion Fund	Creation of a \$1.15 million investment pool targeting seven companies in identified key industries (including the Once Again Nut Butter processing facility) geographically distributed throughout region	All	x			\$3,500,000	FLREDC 2012 Progress Report	Once Again Nut Butter	This project will enable the Once Again Nut Butter company to acquire 10 acres of land in downtown Nunda and build a 40,000 square foot, high-speed automated peanut butter processing facility.								<p>Subject Areas: Ag/Forestry, Economic Development</p> <p>Capitals: Human, Natural, Financial</p> <p>Communities: All Counties could see direct/indirect benefits of these investments</p> <p>Implementation Feasibility: Existing Project</p> <p>Planning Efforts: Called for in FLREDC Economic Development Plan and consistent with overall goals of many regional planning documents</p> <p>Financial Feasibility: Existing Project</p>

Forestry Projects

Broad Strategy	Representative Specific Project	Project Description	Project Applies to which County(ies)	Relative Time Frame of Project			Project Cost	Costs Source (how was it determined)	Agency, Company, Organization Responsible for Project	Anticipated Benefits	If Existing Project, what is it related to or derived from	Evaluation Criteria						Notes
				Short term (0 - 5 yrs)	Mid-term (6 - 10 yrs)	Long term (11-15 yrs)						Benefits Multiple Subject Areas	Benefits Multiple Capitals	Benefits Multiple Communities	Implementation Feasibility	Consistent with Planning Efforts	Financial Feasibility	
Outreach and Education	EQIP Program	Continue to support participation in NYSDEC Environmental Quality Incentives Program (EQIP) Forestry Initiative	All	x			Undetermined		NYSDEC/NRCS in conjunction with County Soil and Water Conservation Districts	Encourage action by landowners to combat pressing environmental issues on forestland through direct funding, and encourage development of forest stewardship plans (required for application into program)	Existing NYSDEC/NRCS Partnership							<p>Subject Areas: Energy, Water, Ag/Forestry, Climate Change, GHG Emissions</p> <p>Capitals: Human, Natural, Social, Financial</p> <p>Communities: All Counties</p> <p>Implementation Feasibility: Program already exists</p> <p>Planning Efforts: NYSDEC Forest Resources Assessment and Strategy, and general consensus of advantages of sustainable forest management</p> <p>Financial Feasibility: Established funding currently</p>
Ecological Services Valuation	Finger Lakes Green Network Initiative (modeled after Green Genesee Road Map pilot project)	This effort includes community workshops, planning sessions and development of a publicly-accessible database to support current and future sustainable land use decisions along with implementation of priority strategies at the municipal level. Intent is to replicate existing Genesee County project to other counties.	All	x			\$2,500,000	Project manager's estimate	New York Green	Re-establishment, rehabilitation, and protection of forest habitat, including blocks and connecting corridors, would lead to more mature forests, increased biodiversity of wildlife and bird species, and increased biomass in live trees. Active adaptive management of ecological networks would also result in reduced invasive species on the landscape.	New York Green's "Green Genesee Road Map" project							<p>Subject Areas: Energy, Transportation, Land Use, Water, Economic Development, Ag/Forestry, Climate Change, Governance</p> <p>Capitals: Human, Natural, Social, Built, Financial</p> <p>Communities: All Counties</p> <p>Implementation Feasibility: Pilot program in existence</p> <p>Planning Efforts: Consistent with overall goals of many plans in region at state and local level</p> <p>Financial Feasibility: Pilot project underway, long-term funding availability unknown</p>
Inventory, monitor and educate to create a better understanding of the region's water resources.	Wayne County Comprehensive Shoreline Management Project	Elevation site assessment and risk analysis of built environment and development of cost estimates for repairing and relocating facilities. Will serve as the basis to modify comprehensive plans	Wayne	x			\$300,000	Grant submission - Great Lakes Restoration Initiative	Wayne County	Plan for climate change, improve water management, provide technical resources to local gov't to								<p>Benefits following subject areas: Transportation, Land Use & Livability, Water Management, Economic Development, Climate Change Adaptation, Governance;</p> <p>Benefits the following Capitals: Human, Social, Natural, Built and Financial; Ability to be replicated in communities in multiple regions; consistent with Great Lakes Restoration Initiative and Wayne County All Hazard Multi-jurisdictional Mitigation Plan</p>