



SUSTAINABLE BROOME COUNTY

OVERVIEW OF BROOME COUNTY CLIMATE SMART INITIATIVES

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CLIMATE SMART COMMUNITIES
COORDINATOR

SUSTAINABILITY IN BROOME COUNTY

- Focus on being “Resilient” - Planning and design strategies needed in order to help our cities develop the necessary capacity to meet the challenges of the future.

“A Resilient City is one that has developed capacities to help absorb future shocks and stresses to its social, economic, and technical systems and infrastructures so as to still be able to maintain essentially the same functions, structures, systems, and identity.”

— ResilientCity.org

“This community will face environmental and economic challenges, and we need to be able to rebound and respond. These challenges may arise globally, regionally or locally.”

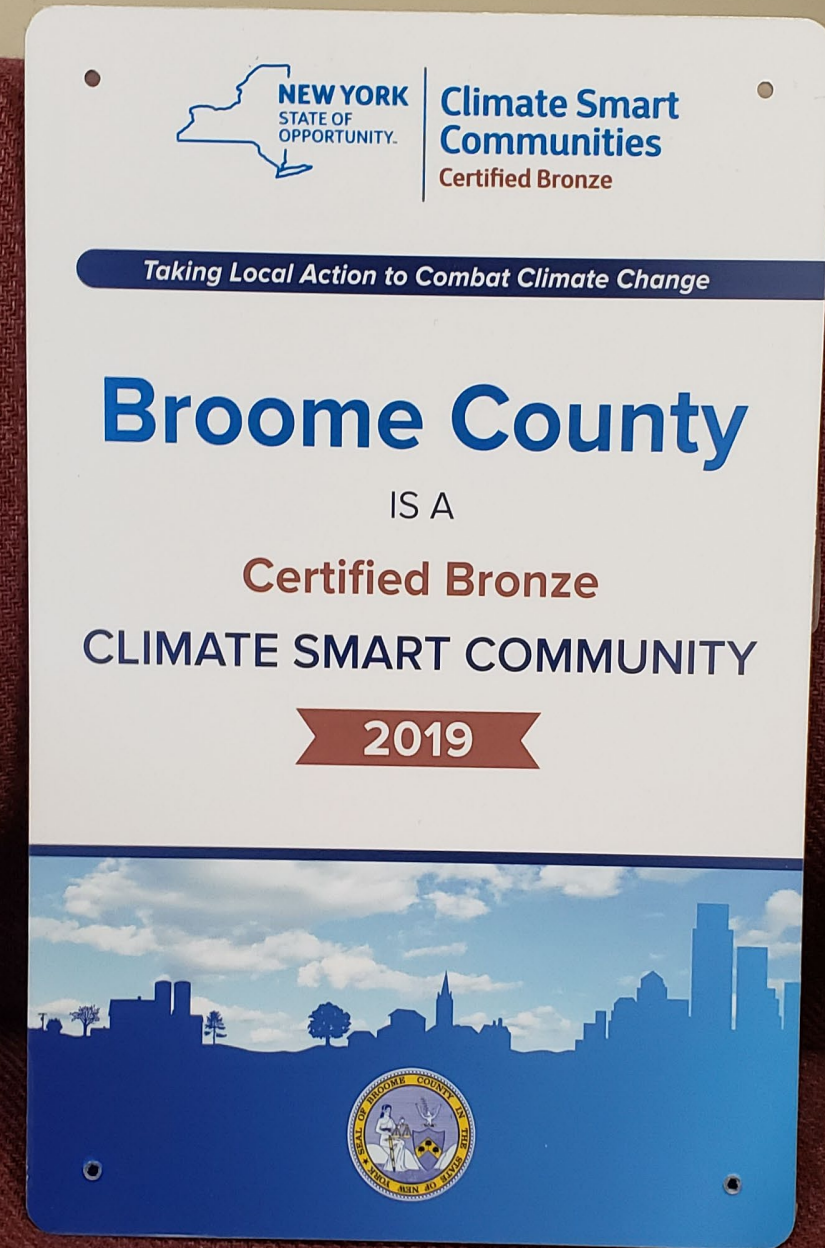
— Broome County
Comprehensive Plan, Guiding
Principles

“Present needs must be met without compromising our ability to meet future needs. A plan, by its nature, should look to the future. But there are immediate demands on our resources. We need to make sure that any effort or initiative put forth in the plan can be sustained in the long term.”

— Broome County
Comprehensive Plan, Guiding
Principles

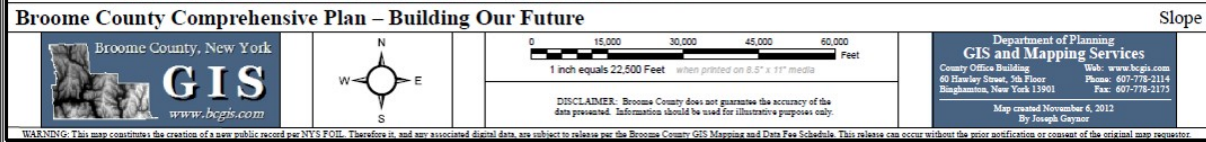
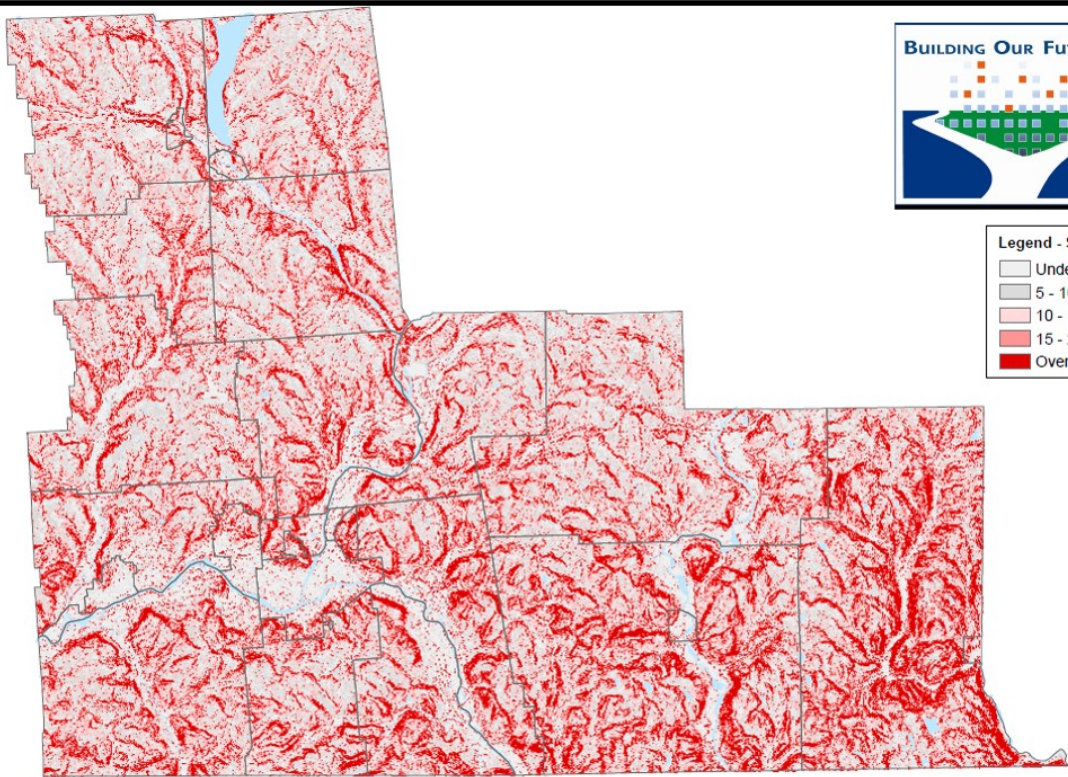
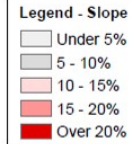
BROOME COUNTY

- Certified **BRONZE** Climate Smart Community
 - Climate Smart Communities Pledge
 - Achieved action under the established pledge elements.
- Designated Clean Energy Community
 - Achieved 5 out of 10 “high impact action items”

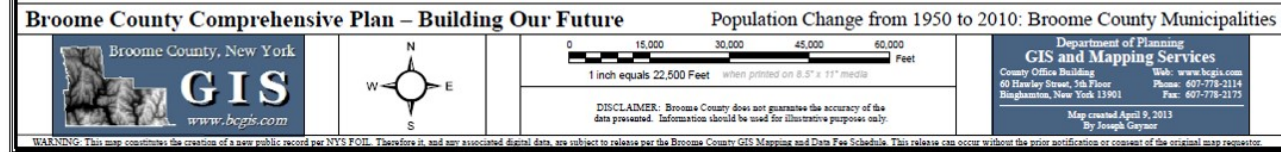
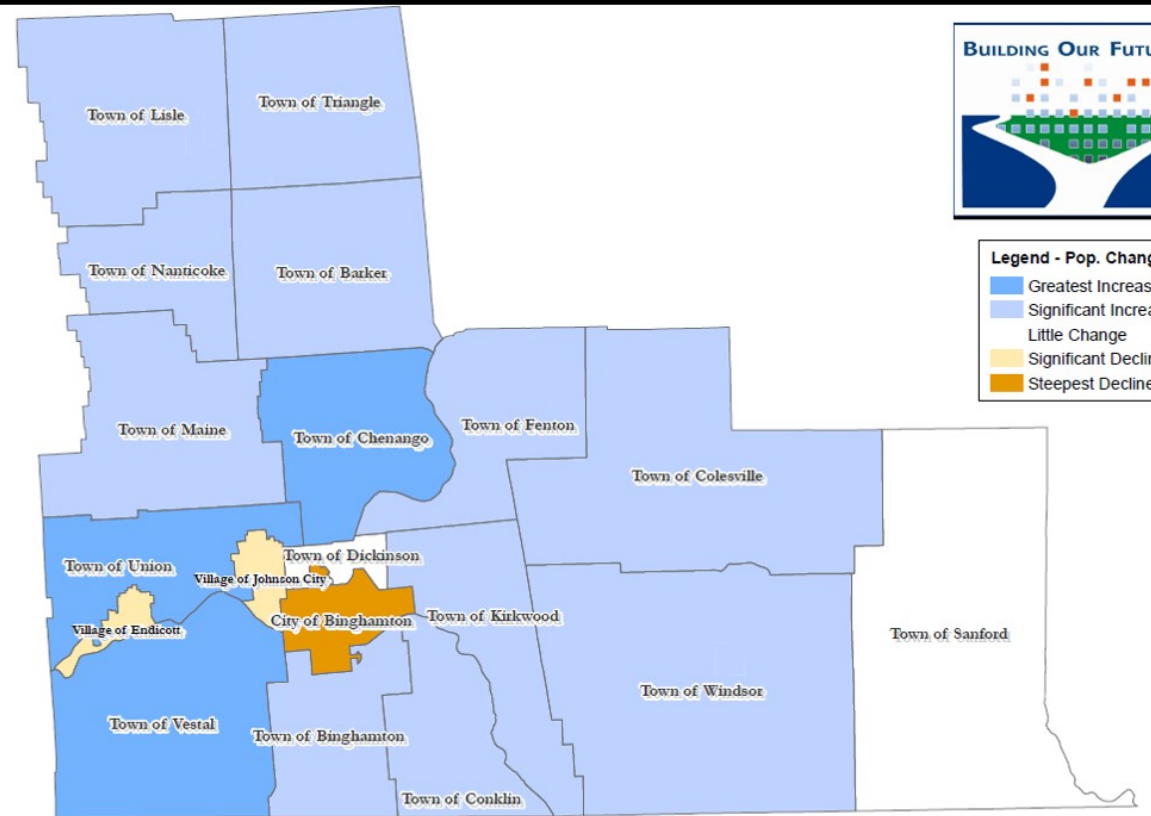
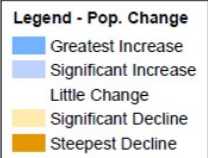


BROOME COUNTY

- Dense urban core with suburban fringe, narrow transportation corridors that follow river valleys, village nodes, and open spaces of rural landscapes.
- Development patterns defined by our steep slopes and rich river valleys.



Development patterns defined by steep slopes and rich river valleys.



Land use impacts of population shift from urban areas.

BROOME COUNTY

- Significant Land Use Issues:
 - Brownfields
 - Flooding
 - Open Space Preservation

BROOME COUNTY SUSTAINABILITY

- Coordinate efforts to **plan**, **implement**, **measure**, **improve** and **promote** sustainability efforts at the County level for government operations, county-wide planning and policy, and county-wide community initiatives.
- Major focus areas include:
 - Energy Conservation and Management
 - Solid Waste Reduction and Management
 - Water Resources Management (water quality and flood mitigation)

SUSTAINABILITY PARTNERS

Broome County Executive and Legislature

County Departments

Planning

Solid Waste

Purchasing

Public Works
(Facilities/Highway
/Engineering)

BMTS and Transit
(Transportation)

Emergency
Services

Health

Parks

Other facilities
(Airport, Arena,
etc)

Community Partners

Educational
Institutions

Environmental
Mgmt Council

CCE, SWCD

IDA/Chamber

Other Environmental
Organizations

Other Buisness
Organizations

APPROACH

- Assess Current Status
- Establish Goals
- Identify Actions

Recognize work that
has already been
done.

Establish framework
to measure progress
and prioritize future
initiatives.

Coordination and
collaboration for
effective use of
resources.

Use the Climate
Smart Communities
Framework to
monitor progress
and establish goals.

CLIMATE SMART COMMUNITIES PLEDGE ELEMENTS

PE 1

- **Build a Climate Smart Community**

PE 2

- **Set Goals, Inventory Emissions, Develop a Plan**

PE 3

- **Decrease Energy Use**

PE 4

- **Encourage Renewable Energy for Local Government Operations**

PE 5

- **Realize Benefits of Recycling and Other Climate Smart Solid Waste Management Practices**

PE 6

- **Reduce Greenhouse Gas Emissions Through Use of Climate-Smart Land Use Tools**

PE 7

- **Plan for Adaptation to Unavoidable Climate Change**

PE 8

- **Support a Green Innovation Economy**

PE 9

- **Inform and Inspire the Public**

PE 10

- **Commit to an Evolving Process**





COUNTY LEVEL CAPABILITIES

- Policies
 - County level regulations (i.e. Health Code, County Tax Law)
 - Assistance to municipalities
- Projects/Programs
 - County procurement process, contracts
 - Partnerships
- Funding
 - County Funded Projects, Grants (i.e. Occupancy Tax Fund)
- Facilities
 - Broome County run facilities
 - County Roads and Infrastructure

CERTIFICATION ACTIONS

- Climate Smart Communities Pledge
- Actions under 10 Pledge Elements (12 including performance and innovation)
- Actions earned 178 points (120 points required) for bronze certification.
 - Actions may have aspects that apply across pledge elements.
 - Not limited to what is covered under the program.
- Opportunities
 - Document of policies to formalize existing actions
 - Ensuring documentation of current activities
 - Improve performance under tiered action items



PE1: BUILD A CLIMATE SMART COMMUNITY

- Intent
 - Building a local team and connecting to broader climate and sustainability initiatives.
- Actions
 - Climate Smart Communities Task Force
 - Climate Smart Communities Coordinator
 - Clean Energy Communities - NYSERDA.
 - Five high-impact clean energy actions identified by NYSERDA as part of the CEC initiative.
 - Solarize, CPACE, Benchmarking policy, GHG reduction (approx. 50%), CSC Certification

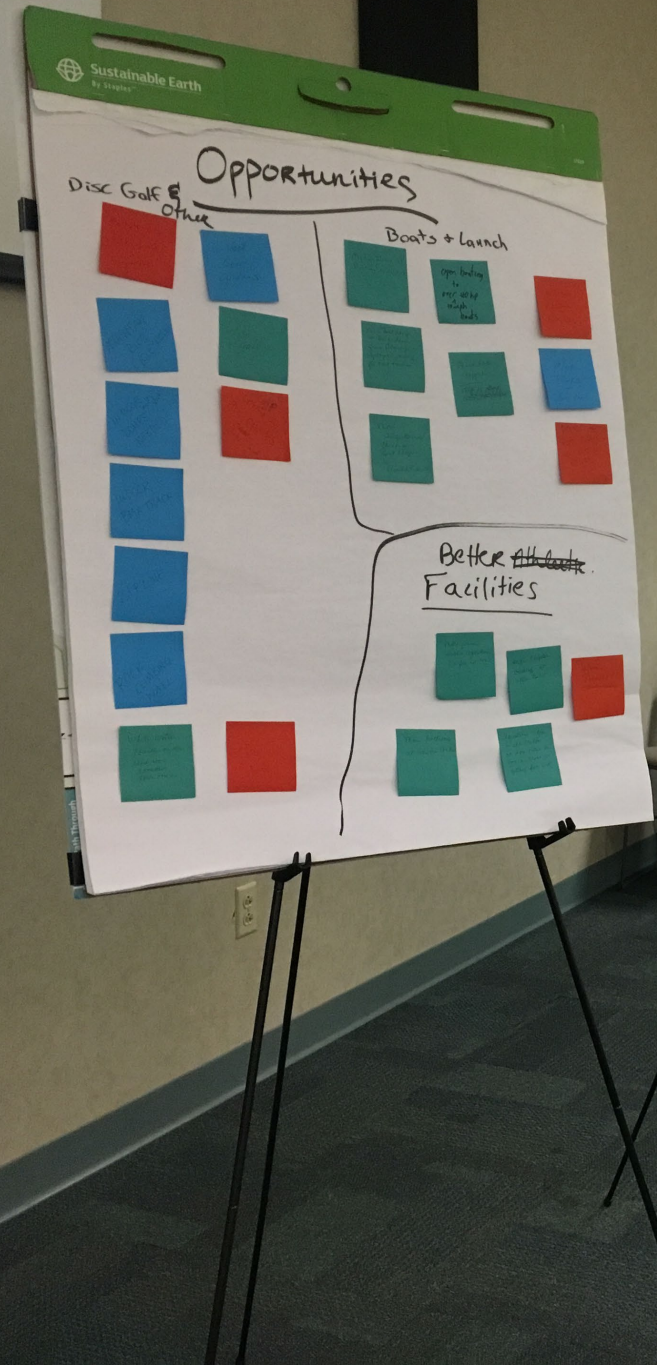
PE2: INVENTORY EMISSIONS, SET GOALS, AND PLAN FOR CLIMATE ACTION

- Intent
 - Gather data about GHG emissions, develop baseline emissions inventories, and develop an action plan for reducing emissions
- Actions (in progress)
 - Municipal Operations
 - Buildings, Fleet
 - Community
 - BMTS Long-range Plan - Energy and Greenhouse Gas Analysis for transportation
 - Cleaner Greener Southern Tier Plan – County level GHG inventories (but outdated)



PE2: INVENTORY EMISSIONS, SET GOALS, AND PLAN FOR CLIMATE ACTION

- Involved Departments/Partners
 - All Broome County Departments that manage buildings or fleet vehicles
- Opportunities/Next Steps
 - Build on existing data to develop a formalized GHG Inventory/Climate Action Plan





PE3: DECREASE ENERGY USE

- Intent
 - Reduce energy demand in public facilities, infrastructure, and vehicle fleets, and maximize energy efficiency across municipal operations.
- Actions
 - Government Building Energy Audits
 - Energy Benchmarking for Government Buildings
 - Green Building Standard for Government Buildings
 - Environmentally Preferable Purchasing Policy



PE3: DECREASE ENERGY USE

- Involved Departments/Partners
 - Facilities, Engineering, Planning, Purchasing, Airport, Library, Transit, Parks, Any other dept that manages a facility or fleet
- Opportunities/Next Steps
 - Update interior lighting to be more energy efficient (current grant for COB and Court)
 - Development of a Fleet Inventory
 - Modernize existing purchasing policies if needed
 - Additional facilities planning

PE4: SHIFT TO CLEAN, RENEWABLE ENERGY

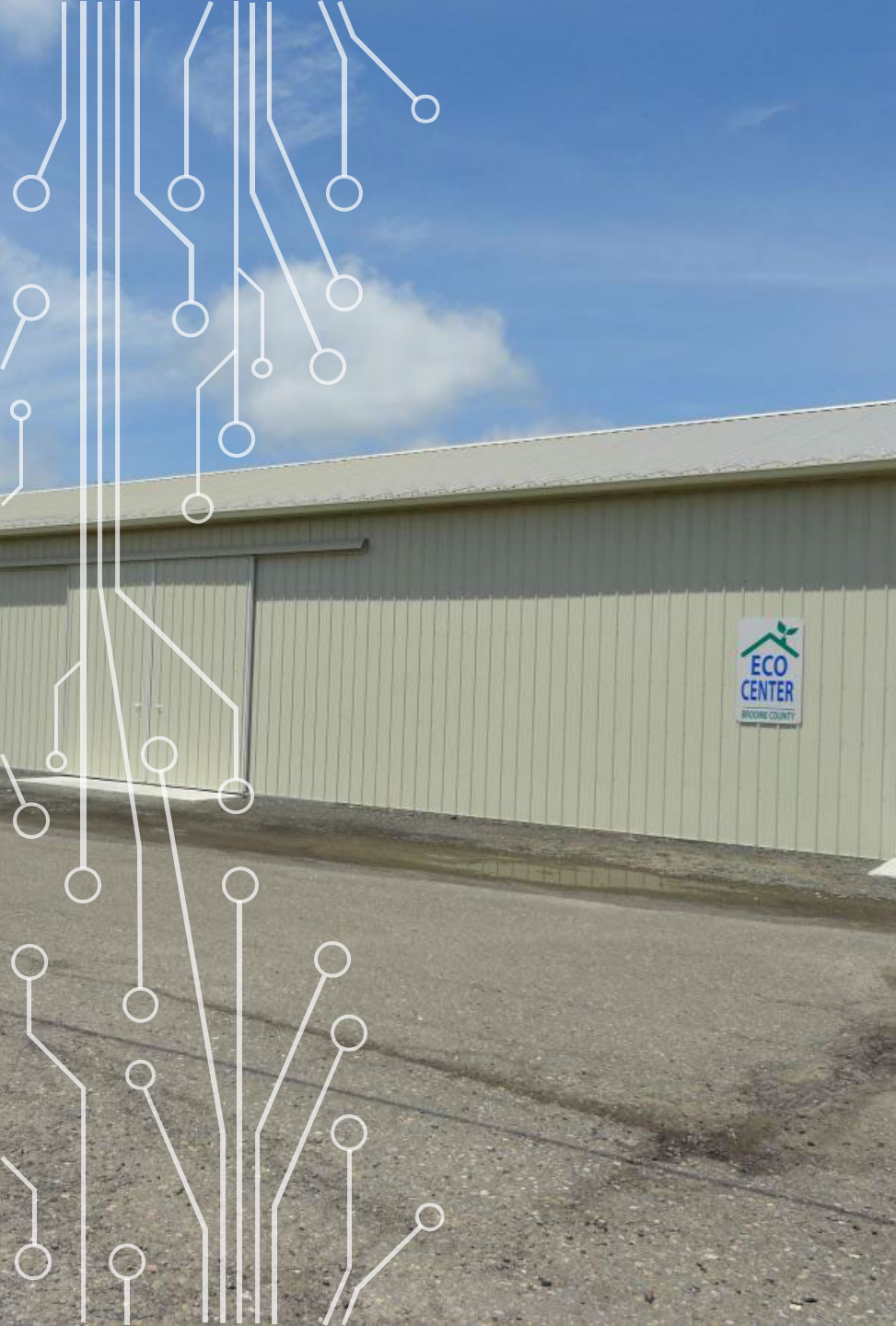
- Intent
 - Policies to power government operations with clean energy, studies to examine feasibility of renewables, and implementation of projects.
- Actions
 - Solar Energy Installation (Conklin Solar Farm and Broome County Library)
 - Power Purchase Agreement for Renewables
 - Geothermal Airport runway heating



PE4: SHIFT TO CLEAN, RENEWABLE ENERGY

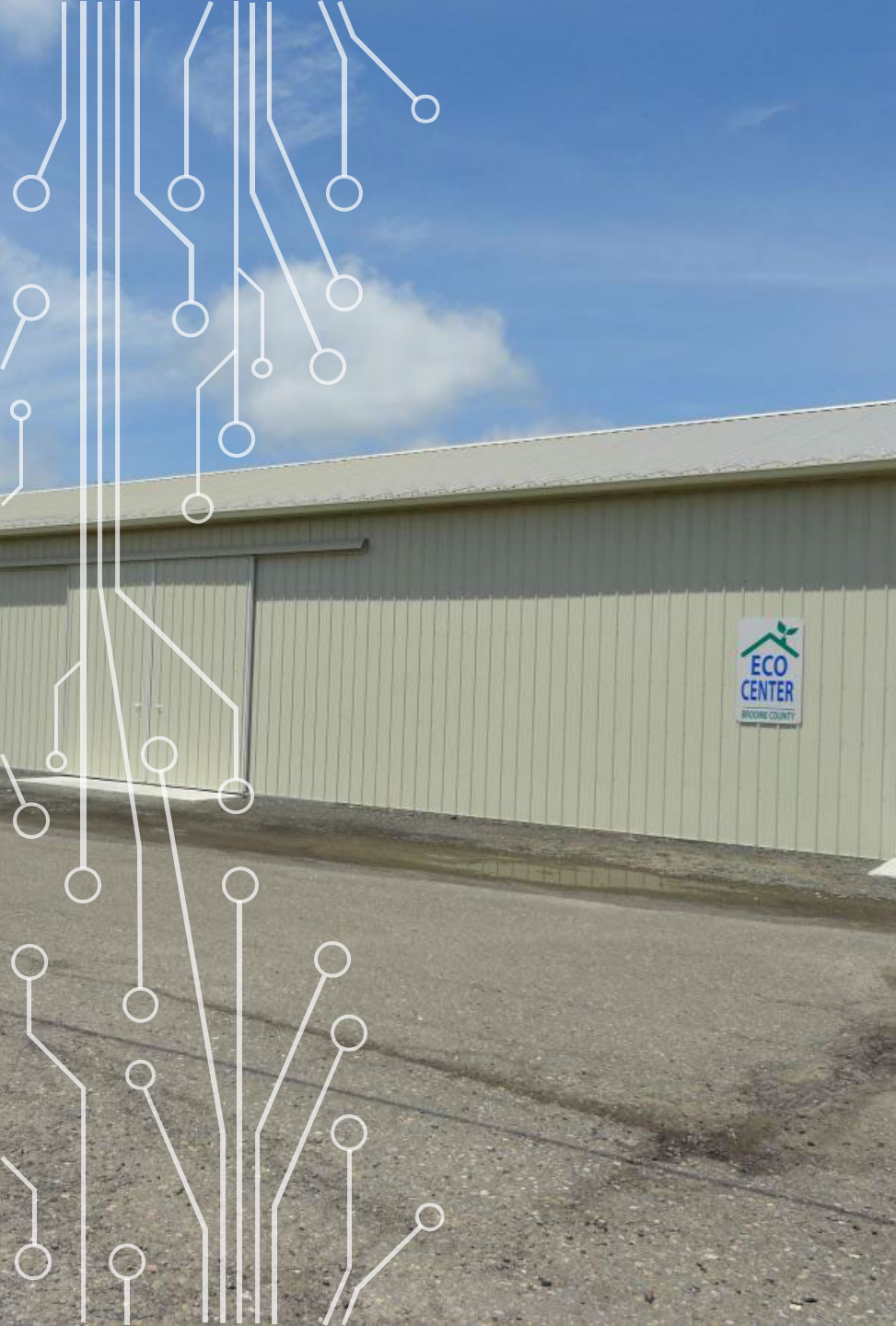
- Involved Departments/Partners
 - Planning, Facilities, Engineering, Elected Officials, other individual facilities
- Opportunities/Next Steps
 - Feasibility studies for additional renewable energy opportunities.





PE5: USE CLIMATE-SMART MATERIALS MANAGEMENT

- Intent
 - Reduce solid waste and increase recycling in government operations; Encourage and support sustainable waste management; Educate the community and offer programs and waste-diversion opportunities
- Actions
 - Construction and Demolition Waste Policy
 - Resource Recovery Center
 - Recycling Program for Public Places and Events
 - Waste Reduction Education Campaign
 - Residential Organic Waste Program

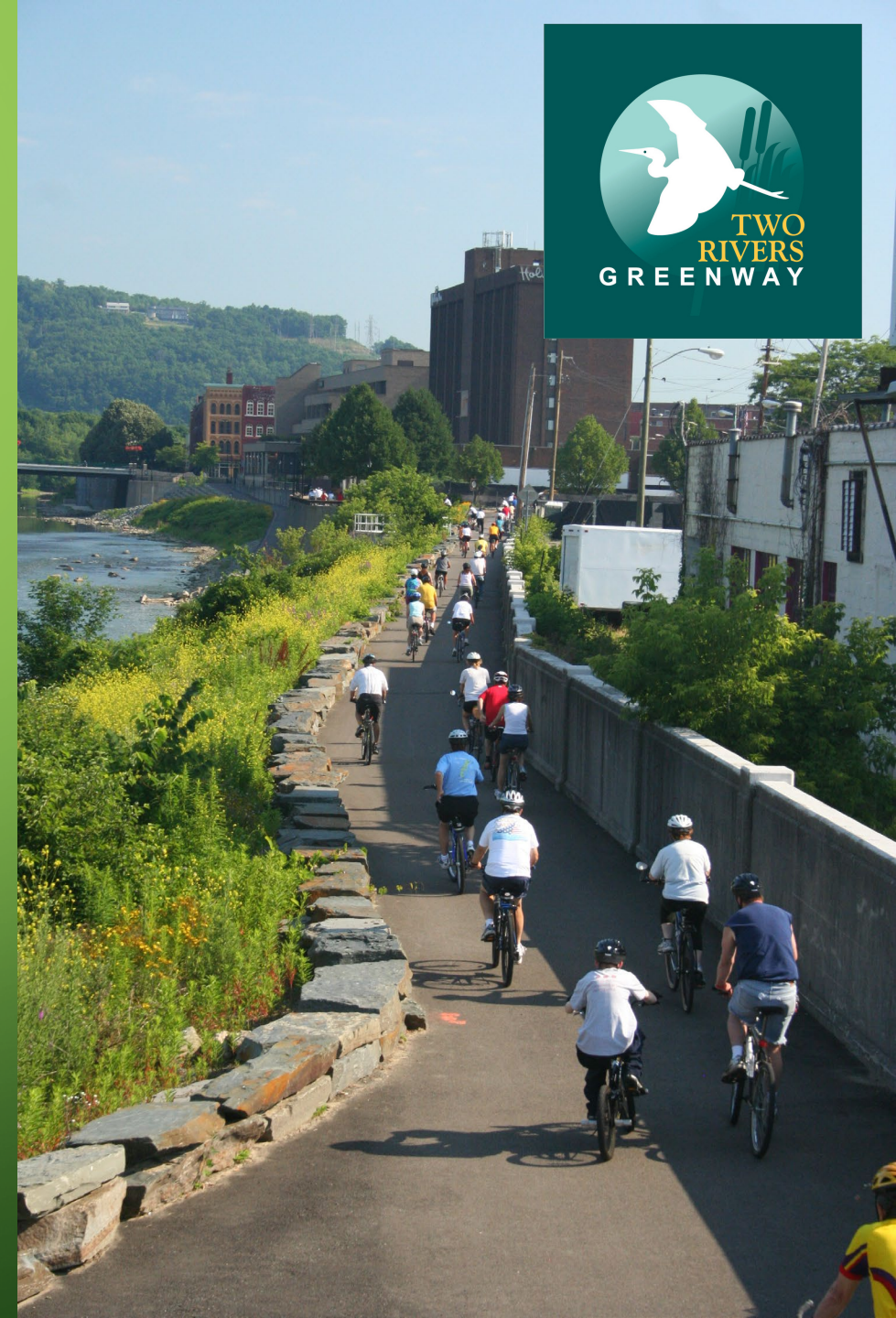


PE5: USE CLIMATE-SMART MATERIALS MANAGEMENT

- Involved Departments/Partners
 - DSWM, CCE
- Opportunities/Next Steps
 - Documented recycling and waste management policies for government facilities.
 - Composting feasibility

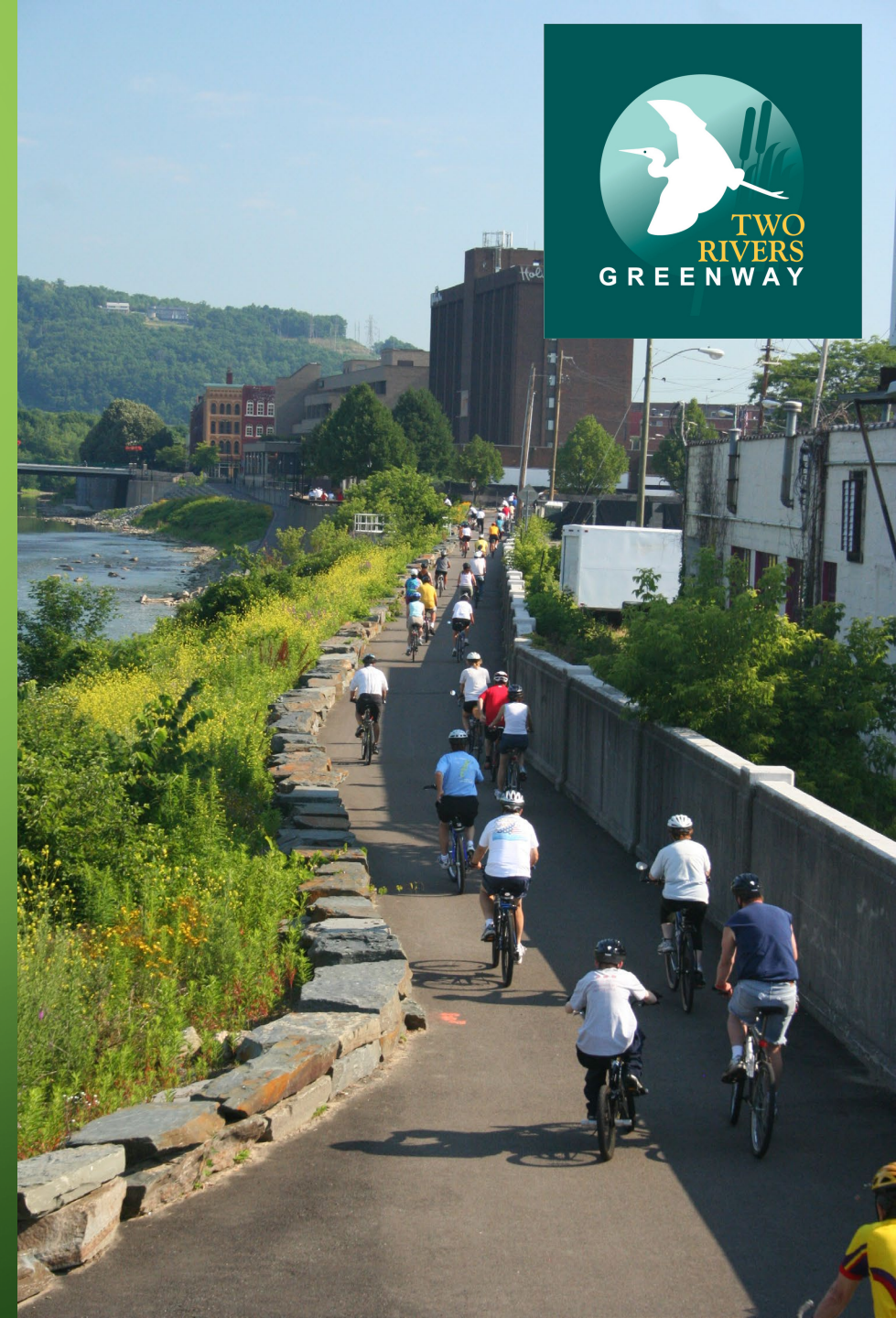
PE6: IMPLEMENT CLIMATE-SMART LAND USE

- Intent
 - Minimize the GHG impact of new development through smart-growth strategies.
- Actions
 - Comprehensive Plan with Sustainability Elements
 - Adopt Land-use Policies that Support or Incentivize Farmers' Markets, Community Gardens and Urban and Rural Agriculture
 - Planning and Infrastructure for Bicycling and Walking
 - Adopt and Enforce an Anti-idling Ordinance
 - Natural Resources Inventory



PE6: IMPLEMENT CLIMATE-SMART LAND USE

- Involved Departments/Partners
 - Planning, Parks, EMC, BMTS, Health
- Opportunities/Next Steps
 - Complete Streets Policy
 - Continued expansion of alternative transportation infrastructure
 - Planning for alternative fuel infrastructure
 - Comprehensive energy planning





PE7: ENHANCE COMMUNITY RESILIENCE TO CLIMATE CHANGE

- Intent
 - Establish a climate resiliency vision and goals, identify vulnerabilities to climate change, and implement strategies to address vulnerabilities and increase overall community resilience.
- Actions
 - Climate Resilience Vision
 - Climate Smart Resiliency Planning
 - Watershed Assessment – Broome County Watershed Flood Mitigation Analysis



PE7: ENHANCE COMMUNITY RESILIENCE TO CLIMATE CHANGE

- Involved Departments/Partners
 - Planning, Emergency Services, SWCD
- Opportunities/Next Steps
 - Better integrate climate adaptation practices into resilience strategies
 - Assess opportunities for better integrating species migration and ecosystem resilience
 - Enhanced green infrastructure planning

PE8: SUPPORT A GREEN INNOVATION ECONOMY

- Intent
 - Lead and support the transition to a green economy
- Actions
 - Broome County Regional Farmers Market
 - Buy Local/Buy Green Campaign (Made in Broome, Farm Trail, Buy in Broome)
 - Brownfield Clean-Up and Redevelopment
 - Financing Program for Building Energy Efficiency



PE8: SUPPORT A GREEN INNOVATION ECONOMY

- Involved Departments/Partners
 - Planning, IDA, Chamber of Commerce, Workforce, CCE, Municipal Partners
- Opportunities/Next Steps
 - Integrate green business into existing economic and workforce development programs (green jobs training, green vendor fairs, etc.)
 - Incentivize green industry or business practices
 - Enhance opportunities for residential efficiency improvements





PE9: INFORM AND INSPIRE THE PUBLIC

- Intent
 - Host events and organize campaigns to educate citizens about climate change and help them discover their role in building a climate-smart community
- Actions
 - Local Climate Action Website – www.gobroomecounty.com/emc/csc
 - Social Media – www.facebook.com/BroomeEMC



PE9: INFORM AND INSPIRE THE PUBLIC

- Involved Departments/Partners
 - Planning, EMC, Education and Awareness Partners
- Opportunities/Next Steps
 - Expand upon climate and energy efficiency/reduction educational efforts
 - Climate related public events

PE10: ENGAGE IN AN EVOLVING PROCESS OF CLIMATE ACTION

- Intent
 - Monitor and report on progress, Engage with community members, Update strategies and plans, Cooperate with neighboring communities
- Actions
 - Partnerships with Other Entities – Neighboring Communities and Partner Agencies
- Involved Departments/Partners
 - Planning, Broome-Tioga Stormwater Coalition, Flood Task Force, Southern Tier 8 Regional Planning, CCE, others
- Opportunities/Next Steps
 - Implement tracking and reporting measures



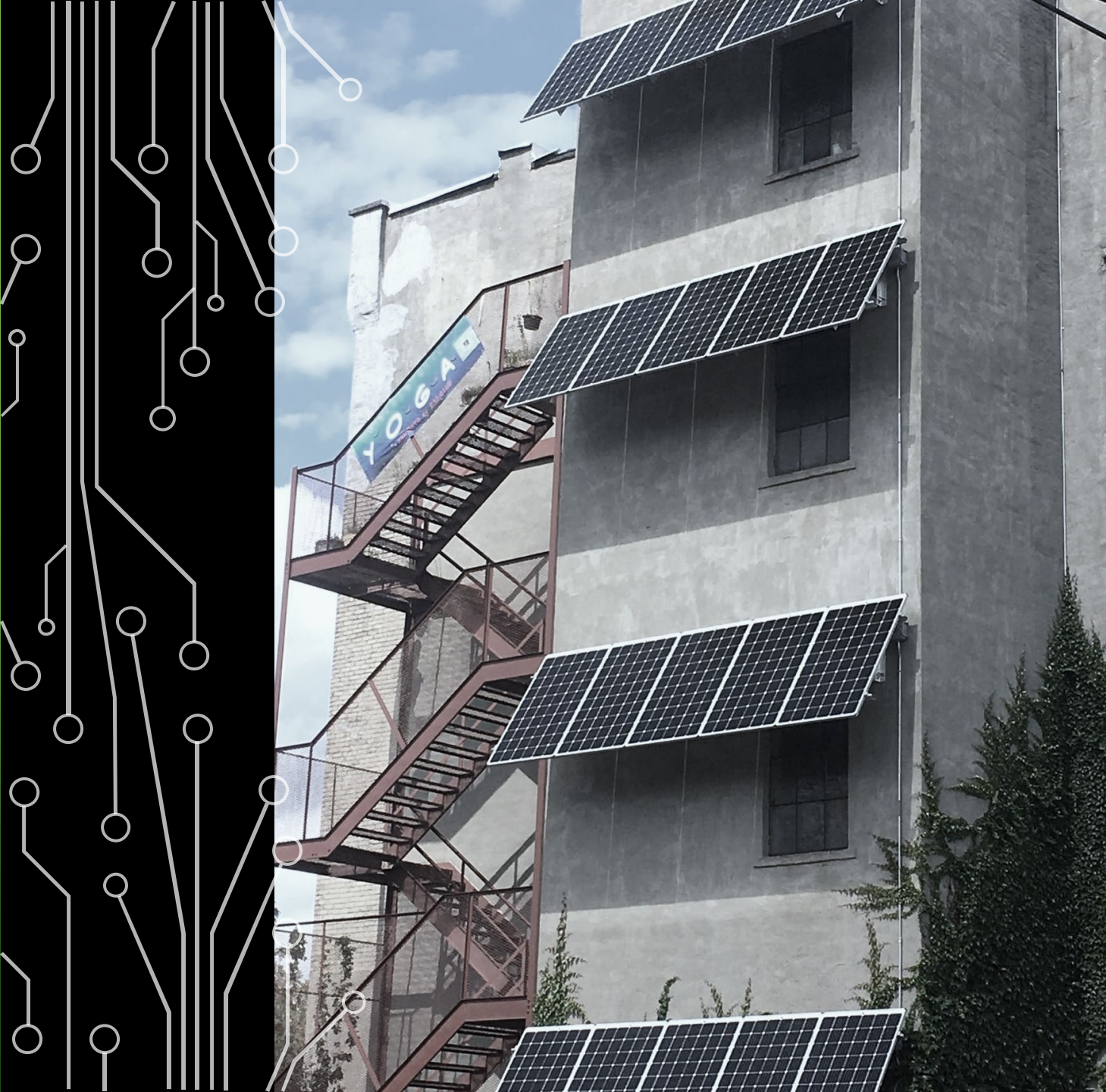
INNOVATION AND PERFORMANCE

EARN POINTS FOR USING
INNOVATIVE PRACTICES AND
DEMONSTRATING QUANTIFIED
GHG REDUCTIONS

CSC PROGRAM

- Ongoing meetings of the CSC Task Force (EMC)
- Meetings of County Green Team (County Departments)
- Project Implementation
 - Continued monitoring of and integration with existing projects and programs
 - Identify funding for new and expanding initiatives
 - Recent grant awards:
 - CEC Grant – Interior Lighting Upgrades at COB and Court and Installation of Flexible PV Canopy at Government Plaza
 - CSC Grant – Installation of wireless remote monitoring at flood control reservoirs
 - CSC Grant – Drainage improvements in Village of Deposit





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