Energy Circuit Rider Initiative

Clean Energy Program
Sustaining Thriving Communities
Energy Circuit Riders: help municipalities and schools plan, finance and implement energy-saving upgrades and clean energy technologies.

- Responsive assistance
- No cost
Overview:

• ANCA
• Local Energy Economy
• Energy Circuit Rider Initiative
  • Aim
  • Approach
  • Progress
• Interactive Discussion
• North County Energy Projects
• Questions?
Building Resilient Local Economies in the Adirondack North Country

- Locally Owned Small Businesses
- Regional Advocacy
- Clean Energy

Regional energy services
Projects
Regional networking
Renewable energy marketplace
Regional Energy Economy

- 60% of NYS existing renewable generation capacity comes from ANCA’s 14 county area
- 80% of all small-scale (<5MW) hydro-power generators in NYS comes from ANCA’s 14 county area
- 44% of NYS existing renewable generation capacity comes from 7 county REDC area
- ~2,000 direct and indirect jobs in 7 county area
Renewable Energy Benefits

- Increased energy security and independence
- Creates local jobs and businesses
- Reinforces local heritage
Municipal Buildings and Schools

- Provide public services
- Host community activities
- Provide work environments
- Attract visitors and businesses
Seven Northern Counties

- **1,219** Municipally Owned Buildings
- **~2,840,900** MMBTU/yr.
- **~$101,700,000** Energy/Water Cost/yr.

Based on estimates of average floor area and energy use by building type.
Potential Energy Benefit Savings
(10-30%*)

~$10-30 million/yr.

* 20-30% savings typical for deep retrofits in NE
Related Energy Benefits

• Additional revenue for community priorities
• Adaptive reuse of property
• Reduced maintenance and planning costs
• Healthier working environment for staff
• Augment real estate value
• Enable code compliance
Barriers to Achieving Benefits

• Limited staff, time, and dependable information to identify and implement cost-optimal energy projects

• Limited access to expertise needed to effectively pursue a project and/or improvements

• Limited access to financing suitable to local conditions
Energy Circuit Riders: help municipalities and schools plan, finance and implement energy-saving upgrades and clean energy technologies

- Fall 2016
- 5 Energy Circuit Riders
- 100+ Training Hours
- 7 Northern Counties
Clean Energy Program

- Technical Services Network
- Financial Consortium

Regional Energy Services
- Clean Energy Conference
- Networking Summits

Projects
- Cleaner Greener Communities
- Green Jobs Green NY
- Multi-County CGC
- Solarize

Regional Networks

Renewable Energy Marketplace
- In Development

Energy Circuit Riders

[Diagram of energy program components]
Energy Circuit Riders

Time, Capacity and Expertise

- Foster exchange of local project knowledge
- Identify additional pathways for project financing
- Connect municipalities with appropriate commercial and industry partners
- Provide guidance for energy efficiency measures and renewable technologies
- Facilitate project aggregation benefits
- Collect and interpret municipal energy data
- Establish building performance baselines
- Provide neutral perspective on complex issues and more
## Energy Circuit Rider Program Portfolio

### Appendix A. Programs Matrix

<table>
<thead>
<tr>
<th>Program</th>
<th>Cross Reference Tags</th>
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<tbody>
<tr>
<td>Acknowledged Model/Technical Program-NYS</td>
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<tr>
<td>Clean Energy Communities-NY-SERDA</td>
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<td>Climate Smart Communities-DEC</td>
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<td>Combined Heat and Power-NY-SERDA</td>
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<td>Commercial and Industrial Insurance and Incentive Program</td>
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<tr>
<td>Commercial and Industrial Program-NYS</td>
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<td>Commercial/Residential Construction-NY-SERDA</td>
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<td>Community Choice Aggregation-NRECA</td>
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<td>Community Development Block Grant-USD</td>
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<tr>
<td>Community/Preservation Street Loan and Grant Program-USDDA</td>
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<tr>
<td>Economic Impact Initiative Grants-USD</td>
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<tr>
<td>Economic Infrastructure Development Projects-NY-SERDA</td>
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<td>Energy Efficiency and Renewable Energy Program-DEP</td>
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<td>EnEnaging Barrier Green-OCS</td>
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<td>Flex Tech-NY-SERDA</td>
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<tr>
<td>Grace Power Partners-Carpa</td>
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<td>High Energy Cost Grant Program-USD</td>
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<td>Kino-RTFPA</td>
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<td>LED Streetlight Conversion Program-National Grid</td>
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<td>North Country Economic Development Program-DAAD</td>
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<td>Proyecto Eléctrico-North-SERDA</td>
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<td>Renewable Energy-NY-SERDA</td>
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<td>Rural/Small Community Development-Long Island-OCS</td>
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<td>Small Business Energy Efficiency Program-NY-SERDA</td>
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<td>Smart Growth Grant-USD</td>
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<td>Solarize-NY-SERDA</td>
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<td>Solarize and Finance Partners-Carpa</td>
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<td>Sustainable Solar Farms-NY-SERDA</td>
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Clean Energy Program Portfolio

Rural Business Development Grant (RBDG)

RBDG is a competitive grant designed to support technical assistance, training, and other activities leading to the development or expansion of small and emerging businesses in rural areas. The small business must partner or be sponsored by a town, state agency, authority, nonprofit, institution of higher education, tribe, or rural cooperative. The RBDG program funds projects that demonstrate cooperation, are able to contribute cost share, and are in line with local economic development strategies, including renewable energy or energy efficiency projects. Contact local offices to apply.
Decision Support Tools

- Equipment lease financing
- Tax exempt conditional sales contracts
- Funded retrofit contracts
- Energy performance contracts (EPCs)
- Energy services agreements (ESAs)
- Managed energy services agreement (MESA)
- Metered energy efficiency transaction structures (MEETs)
- Energy efficiency investment corporations (EEICs)
- Energy efficiency loan programs
- Loan loss reserves, interest rate buy-downs, and loan guarantees
- Property Assessed Clean Energy (PACE)
- Power Purchase Agreement On-bill repayment and financing
- Tax increment financing
- Property tax abatements
- Statutory installment bond (SIB)
- Long term serial bond
- General obligation bond
- Tax credit bond: clean renewable energy bonds (CREB), energy conservation bond (QECB), school construction bond (QSCB)
- Community Choice Aggregation (CCA)

Adapted from: Better Buildings - goo.gl/rySC0H
Cash Flow Opportunity Calculator

Informed Energy Efficiency Decisions

1. How much new energy efficiency equipment can be purchased from the anticipated savings?

2. Should this equipment purchase be financed now, or is it better to wait and use cash from a future budget?

3. Is money being lost by waiting for a lower interest rate?

Adapted from EPA Energy Star: goo.gl/oqYO2j
Energy Performance Benchmarking

Adapted from EPA Portfolio Manager: goo.gl/fVCqQR
Pipelines: Clean Energy Communities Program

**Step 1: Become a Clean Energy Community**

- Benchmarking
- Clean Energy Upgrades
- LED Street Lights
- Clean Fleets
- Solarize
- Unified Solar Permit
- Energy Code Training
- Climate Smart Communities Certification
- Community Choice Aggregation
- Energize NY Finance

<table>
<thead>
<tr>
<th>Municipality Size by Population</th>
<th>Tier 1 Awards</th>
<th>Tier 2 Awards</th>
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<tr>
<td>Large (40,000+)</td>
<td>Number of Awards in each Economic Development Region and Amount</td>
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<tr>
<td></td>
<td>2</td>
<td>$250,000</td>
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<tr>
<td>Small/Medium (0-39,999)</td>
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<td>$50,000</td>
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This project is supported by grant funding through Governor Andrew M. Cuomo’s Cleaner, Greener Communities Program.
Clean Energy Program
Sustaining Thriving Communities
www.adirondack.org

Energy Circuit Riders

- Jennifer Perry
- Nancy Bernstein
- Jamie Rogers
- Matt Bullwinkel
- David Bradford

Contact a Circuit Rider

- Call our office in Saranac Lake: 518-891-6200
- Talk to us at Local Government Day
- Leave your information on our contact-us form (ANCA Table)