July 9, 2019
Xcel Energy Board presentation

Cheryal Lee Hills
Region Five Development Commission
Executive Director

Kevin Corcoran
New Energy Equity
Project Manager
The portfolio included 1,494.72 Kw DC - 1,236 Kw AC, scattered site development consisting of one roof and five ground mounts. The solar systems are installed at six educational sites: two K-12 sites, Pine River Backus and Pequot Lakes, and four sites at Central Lakes College (CLC) – Brainerd and Staples campuses.

$1,993,660.00 Renewable Development Fund
$1,514,890.00 New Energy Equity - Tax Credit investor
$3,508,550.00 TOTAL PROJECT
R5DC Solar Schools Project

Solar Schools

Thanks to our Partners:


Visit www.regionfive.org for production information.

* indicates site specific partner
COMMUNITY DEVELOPMENT
Projects:
- Placemaking
- Solar Schools
- Local Foods – VetCSA (more)
- Regional Branding

Planning:
- Welcoming Communities
- Comprehensive Planning – 30 yrs
- Broadband
- Regional Yellow Ribbon – AgVet
- Industry value chains - WealthWorks
- Watershed plans
- Crowdfunding: Security & Social

DevelopMN:
- Statewide Economic Development Strategy

Comprehensive Regional Economic Development Strategy (CREDS) – EDA

Economic Development District

TRANSPORTATION
MNDOT – 40 Year Relationship
TAC – Transportation Advisory Committee
RTCC – Regional Transportation Coordinating Council
Transportation Alternatives (TA)
Safe Routes to School Planning

LENDING PROGRAMS:
1. Emerging Entrepreneur Loan Program - DEED
2. Revolving Loan Fund – US EDA
3. Microlending - USDA
4. Individual Septic Treatment System (ISTS) - MDA
5. Well Water Loans – USDA
6. City loan programs - Motley

501(c)(3) 15-member private sector board

Fiscal administration for other non-profits
The Renewable Energy Alliance (RREAL) is a nonprofit with the mission of making solar energy accessible to everyone. Through their Solar Assistance program, RREAL has installed hundreds of solar installations to reduce energy costs for low-income families and communities. Through their Education and Community Outreach (ECO) program, RREAL reaches thousands of people of all ages to learn about solar energy through trainings and workforce development opportunities. The Solar for Schools project is part of ECO in RREAL’s backyard in rural Central Minnesota!
• New Energy Equity was founded in 2013 in Annapolis, Maryland

• NEE develops and oversees solar power generation assets, providing clean electricity to commercial, industrial, municipal and utility customers under long-term contracts across the U.S.

• NEE successfully installed 60 MW of new solar capacity in 2018, part of an overall development portfolio of over 200MW since 2013

• Roughly 85% of NEE’s solar portfolio has been developed in Minnesota
Locally named “The Solar Coaster”

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<tr>
<td>Xcel filed its RDF Cycle 4 selection report, RSDC not on the list (Jul. 29, 2013)</td>
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<td>Pre-engineering analysis of proposed school buildings; equipment and grant writing assistance funded by a grant secured by Region Five (Apr. 2013)</td>
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<td>RSDC submitted an application with assistance from Kenedya consulting. Project locations included Leech Lake Tribal College, Royaltown High School, Brainerd Public Schools, Pequot Lakes Schools, and Pine River Backus Schools (2013)</td>
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<td>RSDC’s application was on the “reserved project list” (Mar. 11, 2014)</td>
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<td>Silent Power (included in RSDC proposal) closed its doors (Feb. 4, 2014)</td>
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<td>RSDC secured legal expertise from Sourcewell (Dec. 2015)</td>
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<td>Sought Investment partners from local banks and foundations, with no luck.</td>
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<td>Excel gave notice of Intent to execute grant agreement with RSDC (Dec. 4, 2015)</td>
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<td>Brairder Superintendent Leaves (Nov. 2015)</td>
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<td>Re-Engineered sites using Helene equipment</td>
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<td>CLC expresses interest in project (Jul. 25, 2017)</td>
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<td>Little Falls Schools Exit Program (Jul. 24, 2017)</td>
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<td>RSDC &amp; RREAL presentation to Little Falls School Board (Jun. 2017)</td>
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<td>TenSolar Winding down Operations (May 9, 2017)</td>
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<td>Re-Engineered sites to match Helene specifications</td>
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<td>NEE Notice to Proceed, Surveys and Geotech conducted at CLC sites, Title search completed (Jul. 30, 2018)</td>
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<td>EPC Agreement between NEE &amp; RSDC and RSDC &amp; RREAL; Existed less Agreement between NEE and each School; Executed Power Purchase Agreements (Jul. 9, 2018)</td>
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<td>Interconnection applications approved (Jun. 1, 2018)</td>
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<td>Xcel Award approved by PUC (Apr. 25, 2018)</td>
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<td>Xcel Filed a grant contract for RSDC incl. Pequot Lakes, Pine River Backus, CLC (Mar. 8, 2018)</td>
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<tr>
<th>What Actually Happened</th>
<th>2018</th>
<th>2019</th>
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<td>Solar Array at Pine River Backus operational (Dec. 31, 2018)</td>
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<td>Re-engineered CLC sites to match revised Helene specifications (Mar. 2019)</td>
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</table>
Specifications

- Module type: Heliene 72M-360 360W modules
- # modules: 2,244
- System DC rating: 807,840W
- System AC rating: 660kW
- Azimuth: 180 degrees
- Tilt: 30 degrees
- Racking: Unirac Driven Pile per soil conditions
- Inverters: Qty. 11 Solectria PVI60TL
- Data monitoring: Also Energy
- System design: 100% complete
- Construction: 100% complete
- Inspections and interconnection: 100% complete
Specifications

✓ Mobilized
✓ Module type: Heliene 72M-360 360W modules
✓ # modules: 984
✓ System DC rating: 354,2400W
✓ System AC rating: 300kW
✓ Azimuth: 180 degrees
✓ Tilt: 10 degrees
✓ Racking: Unirac ballasted RM10
✓ Inverters: Qty. 5 Solectria PVI60TL
✓ Data monitoring: Also Energy
✓ System design: 100% complete
✓ Construction: 100% complete

Inspections and interconnection: 100% complete
Central Lakes College (CLC) Brainerd Campus

Specifications

- Mobilized
- Module type: Heliene 72M-360 360W modules
- # modules: 140
- System DC rating: 50,400W
- System AC rating: 39.98kW
- Azimuth: 150 degrees
- Tilt: 30 degrees
- Racking: Driven Pile per soil conditions
- Inverter: Qty. 4 Fronius Symo 10.0-3 208V
- Data monitoring: Locus
- System design 100% completed
- Construction: 100% complete
- Inspections and interconnection: 100% complete
Specifications

✓ Mobilized
✓ Module type: Heliene 72M-360 360W modules
✓ # modules: 504
✓ System DC rating: 181,440W
✓ System AC rating: 156.0kW
✓ Azimuth: 180 degrees
✓ Tilt: 30 degrees
✓ Racking: Driven Pile per soil conditions
✓ Inverter: Qty. 2 Solectria PVI60TL and Qty. 1 Solectria PVI36TL
✓ Data monitoring: Locus
✓ System design: 100% complete
✓ Construction: 100% complete
✓ Inspections and interconnection: 100% complete
Specifications

- Mobilized
- Module type: Heliene 72M-360 360W modules
- # modules: 140
- System DC rating: 50,400W
- System AC rating: 39.98kW
- Azimuth: 180 degrees
- Tilt: 30 degrees
- Racking: Driven Pile per soil conditions
- Inverter: Qty. 4 Fronius Symo 10.0-3 480V
- Data monitoring: Locus
- System design: 100% complete
- Construction: 100% complete
- Inspections and interconnection: 100% complete
Specifications

- Mobilized
- Module type: Heliene 72M-360 360W modules
- # modules: 140
- System DC rating: 50,400W
- System AC rating: 39.98kW
- Azimuth: 180 degrees
- Tilt: 30 degrees
- Racking: Driven pile per soil conditions
- Inverter: Qty. 4 Fronius Symo 10.0-3 480V
- Data monitoring: Locus
- System design: 100% complete
- Construction: 100% complete
- Inspections and interconnection: 100% complete
<table>
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<tr>
<th>Payment Milestone</th>
<th>Description</th>
<th>Date</th>
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<tbody>
<tr>
<td>1</td>
<td>NTP (All Sites) (COMPLETE)</td>
<td>June 27th, 2018</td>
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<tr>
<td>2</td>
<td>Mobilization Pine River Backus</td>
<td>September 13th 2018</td>
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<td>3</td>
<td>Mobilization Pequot Lakes</td>
<td>October 30th 2018</td>
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<td>4</td>
<td>Mobilization Ag Campus</td>
<td>November 27th 2018</td>
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<td>5</td>
<td>Mobilization West Campus</td>
<td>November 27th 2018</td>
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<td>6</td>
<td>Mobilization Main Campus</td>
<td>November 27th 2018</td>
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<td>7</td>
<td>Mobilization Brainerd Campus</td>
<td>October 31st 2018</td>
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<tr>
<td>8</td>
<td>100% Equipment on site (Pequot Lakes)</td>
<td>November 1st 2018</td>
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<tr>
<td>9</td>
<td>100% Equipment on Site (Pine River Backus)</td>
<td>October 1st, 2018</td>
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<tr>
<td>10</td>
<td>Guaranteed Substantial Completion Date Pequot Lakes</td>
<td>December 31st, 2018</td>
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<td>11</td>
<td>Guaranteed Substantial Completion Date Pine River Backus</td>
<td>December 31st, 2018</td>
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<td>13</td>
<td>100% Equipment on Site (Remaining Systems)</td>
<td>March 31st, 2019</td>
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<td>14</td>
<td>Guaranteed Substantial Completion Date (Remaining Systems)</td>
<td>May 31st, 2019</td>
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<td>15</td>
<td>Final Payment (Remaining Systems): Startup, Commissioning, Inspection and Punchlist Complete. Final Acceptance Certificate issued</td>
<td>June 30th, 2019</td>
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</table>
Electric Vehicle Charging Stations

Specifications

• The only stations between Brainerd and Bemidji!

• Convenient locations in the school parking areas for our many summer travelers in the Brainerd Lakes area.

• Both locations have dual port, Level 2 commercial charging stations that are bollard mount.

• 5-year commercial service plan and 5-year cell service plan have been prepaid.

• Two 40A branch circuits deliver electricity independently to each head to maximize charging power.

• LCD user interface is customer-friendly.

• Installed in an unobtrusive fashion with interconnection facilitated via directional boring, and interconnection via existing services.
Questions?
THANK YOU

www.regionfive.org