



MEDICINE HAT
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Community Renewable Energy Microgrid Demonstration Project *Of Southeast Alberta*

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ENTREPRENEUR
DEVELOPMENT CENTRE



- Energy
- Renewable energy
 - Solar thermal
 - Solar PV (photovoltaic)
 - Wind power
- Electricity
- Demonstration project



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What is a Microgrid



VS





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What We Will Have



WE
WiseEnergy™
Control and Monitoring



Positioningsystems.com



**First Full Scale
UrbaVento Installed**
(3kw expandable to
5kw with solar tiles)
plus BSW Microgrid



thepinsta.com





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Solar Parking Canopy



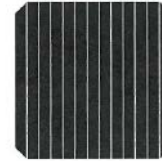
SHIFTING THE LIMITS

LG NeON[®] 2 BiFacial

LG390N2T-A5 | LG385N2T-A5

390W | 385W

The LG NeON[®] 2 BiFacial is designed to absorb irradiance not only from the front but also the rear of its NeON[®] cell by using a transparent back sheet. The dual faces of the cell allows for higher energy generation.



solar**edge**

SolarEdge Three Phase Inverters for
the 277/480V Grid for North America

SE10KUS / SE20KUS / SE30KUS / SE33.3KUS



Products shown:
Schneider Electric Conext CL 18/25 with wiring box



RATED FOR
1000 V DC & 600 V DC
SYSTEMS



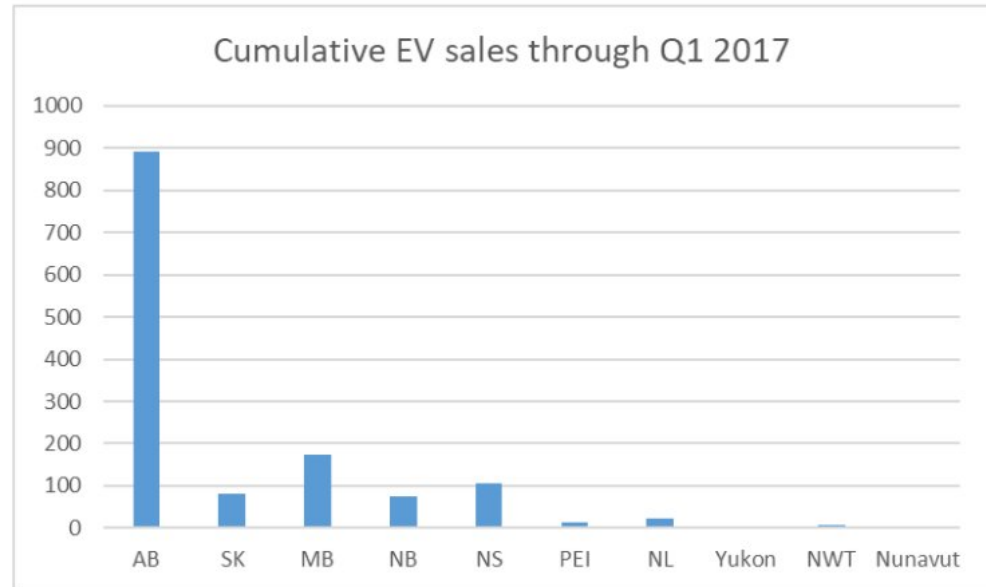


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Electric Vehicle Charging



electric-car-insider.com

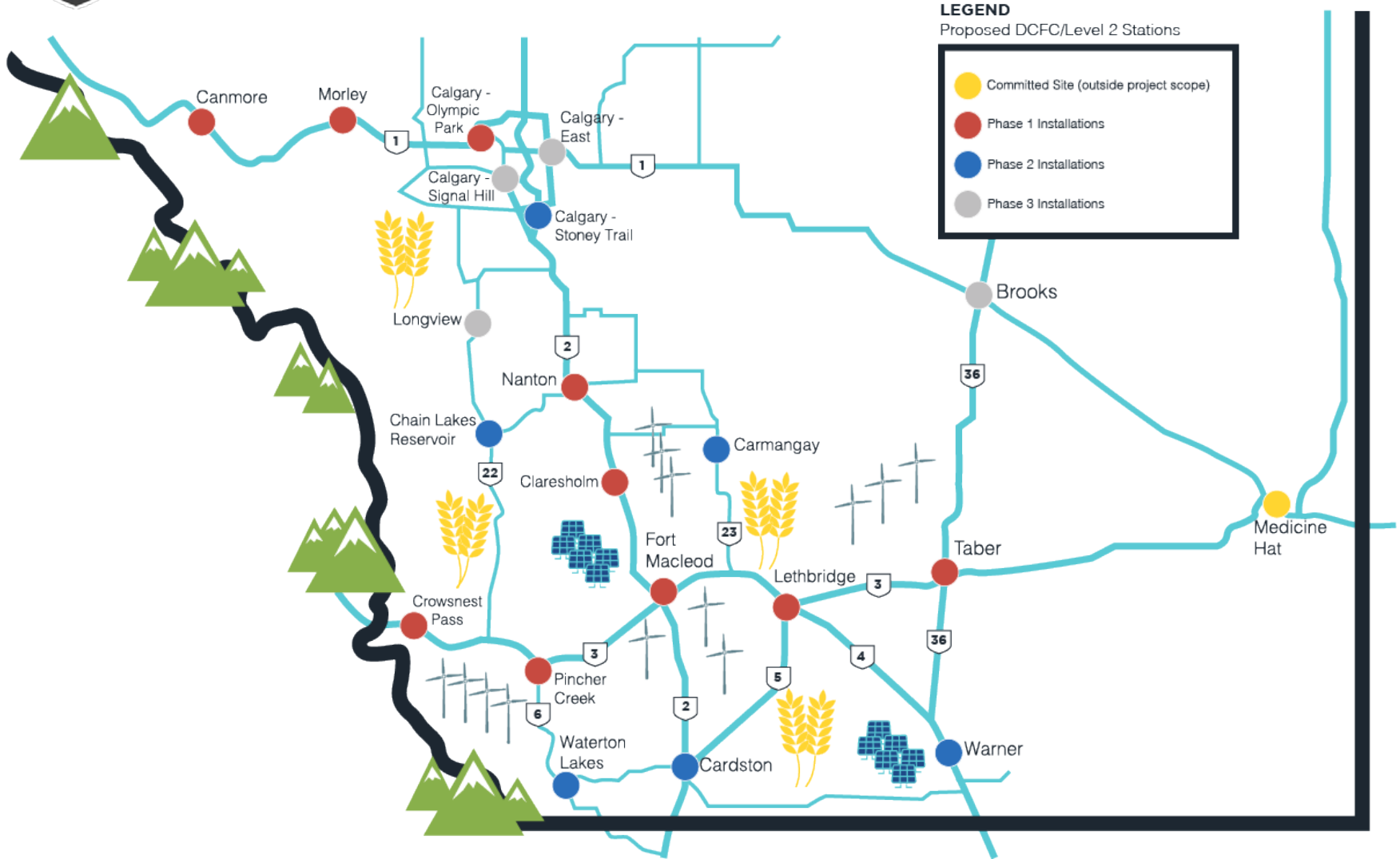


Data retrieved from Matthew Klippenstein's Canadian EV Sales Summaries using R.L. Polk & Company registration data, industry executive interviews.



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Connecting Medicine Hat





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Solar Thermal



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Control and Monitoring



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Current Testing



**First Full Scale
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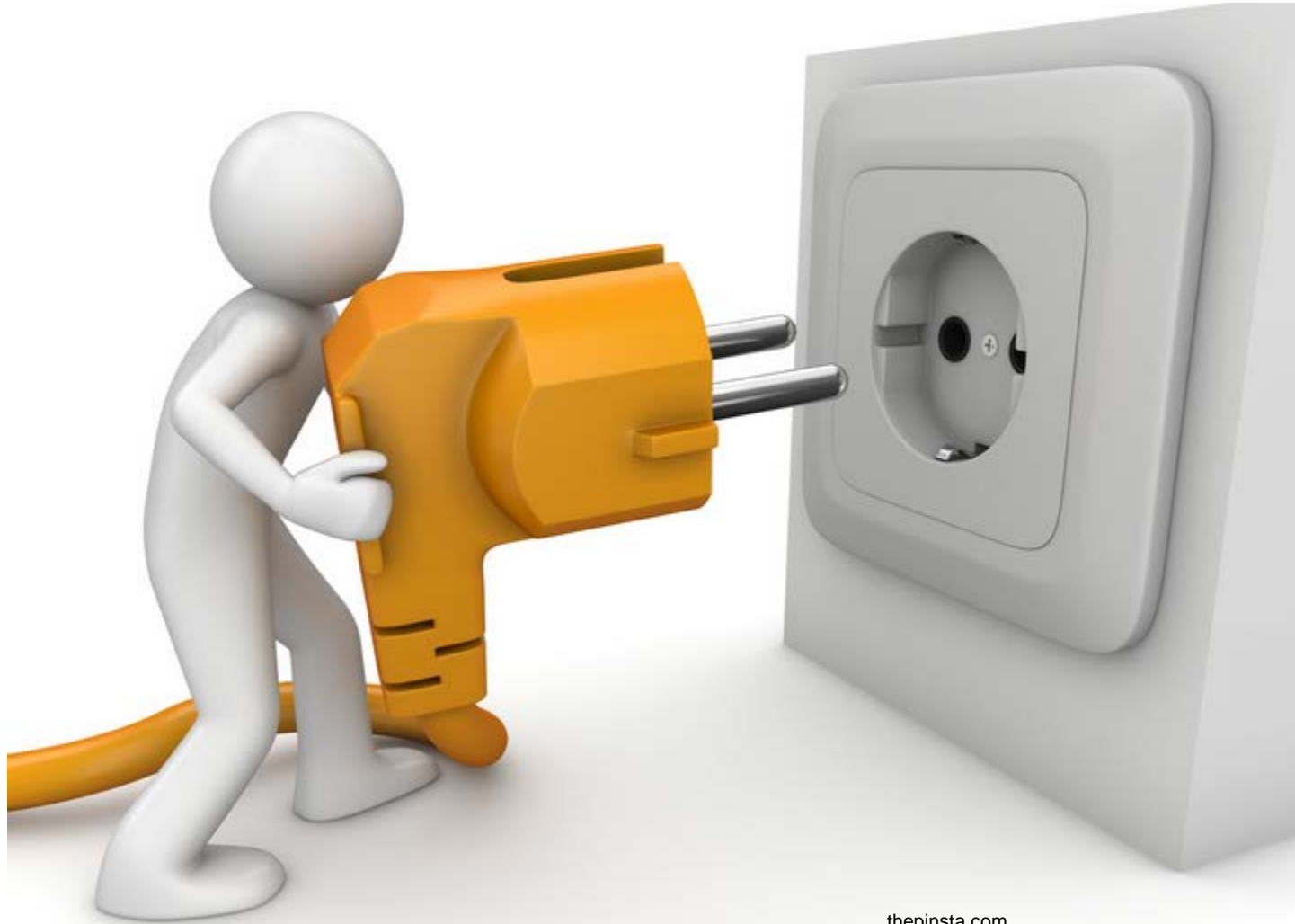


WE
WiseEnergy™
Control and Monitoring



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Testing Opportunity



thepinsta.com

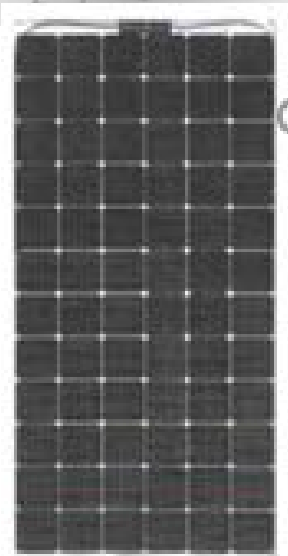


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Learning Center



Positioningsystems.com





Why MHC?

Alignment with MHC Programing

Trades Programming:

- Electrician
- Plumber
- Automotive Service Tech
- Steamfitter-Pipefitter

Other Programming:

- Business Courses
- Management Seminars
- Engineering
- Environmental Science & Environmental Rec. Tech
- Information Technology
- And more!



Benefits and Outcomes

- Investment Attraction - renewable energy companies and manufacturers
- Teaching and Learning - Training Opportunities
- Product Commercialization
- Research and Innovation
- Entrepreneurial Culture
- Community Assets
- Tourism Revenue
- Job Creation- high paying employment opportunities
- Carbon Offsets - for high emitters
- New Technologies and Cloneable Technologies
- Community Sustainability - environment, social, and economic
- **Reputation** - South East Alberta known as a **HOTBED** for **Renewable Energy, Innovation and Smart Technologies!**



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Future Phases

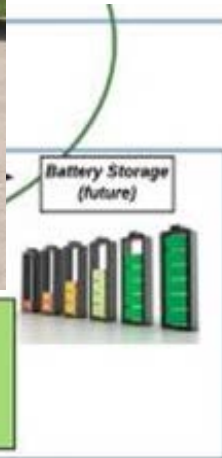
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Brtaram.com





Thank you so much for your support!!

Grid:

- **Western Diversification Program**
- **Community and Regional Economic Support (CARES) program**
- **APEX Regional Innovation Network**

Seminar and Training Development:

- **CECB Grant**



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Thank you

- The City of Medicine Hat
- BSWC
- ENMAX
- TERRALTA
- The Medicine Hat
College Team



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Questions?

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