



Summary of Community Energy Capacity Building Grant Recipients

December 2018

| Recipient Organization | Project Name | Project Description | Region/Communities Receiving Benefit | Grant Amount (\$) |
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| Alberta Community and Co-Operative Association | Connecting Sector Expertise with Local Projects: Development Workshop Series | This project brings together renewable energy experts with local groups to advance community energy projects in a workshop environment. The objective is to provide participants with a strong understanding of the development process. These workshops will also be used to create materials, templates, and guides. | Alberta municipalities; indigenous communities; Agricultural Producers; Economic Development Officers | \$37,000 |
| Alberta Green Economy Network (AGEN) | Intro to Community Energy Toolkit and Workshop Series for Edmonton Condominium boards | The workshop series and toolkit development are intended to provide Edmonton condominium boards and residents the tools they need to initiate feasibility studies and business case development for community energy projects. The workshops are targeted towards individuals interesting in leading community energy projects within their condo corporations. | City of Edmonton (Condominium owners and residents) | \$10,000 |
| Alberta Solar Cooperative (ASC) | Alberta Solar Co-op – Stakeholder Engagement Framework & Marketing Development | The ASC project will be creating a framework to allow Alberta residents to invest in vetted renewable energy projects. The result would be a stable option for Albertans who wish to invest in a renewable energy project. To achieve this the ASC will engage with legal and marketing entities to complete materials and frameworks which can be used to complete all legal and development steps to realize this project. | Alberta residents; Rural municipalities; Land owners | \$45,000 |

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| Alberta Southwest Regional Economic Development - on behalf of Southern Alberta Alternative Energy Partnership | Powering Connections: Renewable Energy Investment Readiness for SAAEP Communities | This project seeks to increase “renewable energy literacy” in Southwest Alberta to support the development of renewable energy resources. This project provides renewable energy project development knowledge and resources for municipal decision-makers to support them in future decision making. | 39 Partner Communities in Southern Alberta | \$30,000 |
| Bow River Irrigation District (BRID) | Bow River Irrigation Hydropower Project – Drop 5 | This project will complete feasibility studies (survey, geotechnical, environmental and interconnection) and analysis for a proposed 1.3MW hydroelectric project that will utilize an existing canal drop structure located on BRID’s main canal. The Project will generate clean, renewable hydropower for the benefit of the citizens of Alberta and will provide BRID supplemental income in the form of lease and operations payments. The project is the first of five sites on BRID’s canal that have very similar characteristics. Due to these similarities, aspects from these initial feasibility studies will carry through and help the future development of additional sites. These additional sites would provide another 2.5 MW of capacity and 6,700 MWh of annual energy. | Vauxhall and surrounding area; Fortis and BRID ratepayers | \$79,000 |
| CAIRN Housing Society | CAIRN Housing Society – Energy Creation and optimization | The CAIRN Housing Society’s project intends to investigate options available to reduce the costs associated with living in the CAIRN building by studying the feasibility of installing rooftop solar PV modules coupled with a microturbine. The CAIRN building is home to five businesses and over a hundred and forty residents. The CAIRN building was constructed though a Housing for the Homeless Grant from the Province of Alberta and has since become a home for many. | Grande Prairie and surrounding area; CAIRN Housing residents and target populations | \$20,650 |
| Canadian Solar Industries Association (CANSIA) | Community Solar: Risk and Insurance Considerations | The “Community Solar: Risk & Insurance Considerations” project will be created as a resource that would provide points of reference for risk and insurance considerations for Community Solar projects. This document will provide guidance on how to identify, quantify and mitigate risks, as | Community solar proponents throughout Alberta | \$6,500 |

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| | | well as types of insurance considerations to protect assets, revenue, and reputation. The guide will encompass both ground and roof mount solar, including different scenarios and pricing considerations as well as claims examples. The resource would be made available publicly in electronic form and in an online webinar. | | |
| Canadian Geothermal Energy Association (CanGEA) | What about Geothermal Energy in Alberta | The goal of the “What about Geothermal in Alberta?” project is to inform Albertan’s about geothermal energy and how it could be applied in Alberta. The project will consist of a CanGEA representative travelling to various locations throughout Alberta to deliver informational sessions. | Calgary, Medicine Hat, Lethbridge, Edmonton/Leduc, Red Deer, Edson, Hinton, Jasper, Fort McMurray | \$25,000 |
| Canadian Solar Industries Association (CANSIA) | Municipal Excellence in Alberta: Template By-Laws for Solar Energy | This project will produce a reference resource for Alberta’s Municipalities documenting key considerations for issues that do and do not require coverage in by-laws. It includes a jurisdictional scan of current and best practices from across North America and the production of a by-law template that Albertan municipalities could choose to adopt as presented or in an amended form. | Alberta Municipalities | \$30,000 |
| Dunmore Equestrian Society | Renewable Energy Project Design | Dunmore Equestrian Society will design an appropriate roof top solar array system that will meet the capacity needs of their immediate community. This design will include a financial strategy, and strategic plan to ensure the successful development of this project. | Southeastern Alberta; Cypress County; Prairie Rose School District | \$65,000 |
| Economic Development Alliance of Southeast Alberta | Renewable Energy 101 | As solar and wind are emerging industries in Alberta, this project will focus on raising awareness and understanding of renewable energy in South East Alberta (SEAB) and energy literacy in general. Online toolkits and a Renewable Energy 101 awareness campaign will be developed, workshops will be offered in communities throughout SEAB, information booths will be set up at community events, an online webinar will be offered, and we will host a free panel discussion on energy diversification in SEAB. | Southeastern Alberta | \$35,000 |
| Environment Lethbridge Council | Renewable Energy Co-op Feasibility Study and Business Case | This project will investigate the feasibility of establishing a locally-owned renewable energy cooperative in Lethbridge and, given a positive outcome for the feasibility study, will also develop a business case. This project will include consultation processes targeted to community members, | Greater Lethbridge area | \$50,000 |

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| | | local renewable energy companies, local First Nations (Kainai and Piikani) and possible community investors. A co-op would increase the amount of renewable energy that is generated by the local community while potentially offering a lower entry investment to residents who wish to contribute to the development of renewable energy projects. | | |
| Foothills Energy Co-op | Pay-It-Forward Community Solar | Foothills Energy Co-op wants to help initiate the installation of rooftop solar in the communities where members live. The goal of Foothills Energy Co-Op is to increase solar energy generation, but also to get as many residents as possible involved in doing so by investigating the feasibility of a Pay-It-Forward Community Solar program. This program would install rooftop solar for our members and have these members pay a monthly fee, roughly equal to their electricity savings, to the Co-op to help fund future rooftop solar installations for other members. | Black Diamond, Turner Valley, M.D. of Foothills No. 31 and surrounding area | \$8,160 |
| Foothills Energy Co-op | Tackling Regional Understanding, Capacity and Knowledge to Build Renewable Energy Works (acronym TRUCK-BREW) | The world is changing, and the Foothills Energy Co-op wants to help accelerate the shift toward incorporating renewable energy into Alberta’s energy mix. The Co-op proposes to develop, promote and present a series of Tackling Regional Understanding, Capacity and Knowledge to Build Renewable Energy Works, “TRUCK BREW” seminars, information sessions, and site visits. The purpose of this activity is to inform and educate Alberta residents about the complex deregulated Alberta energy systems, building cooperation and trust among utilities and local residents and to drive acceptance of renewable energy, and increases in installation residential solar PV systems and energy conservation. | Alberta | \$15,000 |
| Friends of Medalta (Museum + Art Facility) | Medalta in the Historic Clay District Energy Diversification Study | Friends of Medalta wants to explore options for decreasing emissions and energy costs by using solar PV on two building rooftops and a solar canopy in the parking lot. An opportunity also exists to showcase industrial energy transitions – from gas in the ground to solar in the sky. The first step in making this happen is a feasibility study. This | City of Medicine Hat; Medalta Historic Site | \$57,250 |

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| | | completed study will provide a framework for moving forward. | | |
| Hinton Community Futures / Community Futures West Yellowhead | Energy Literacy in the West Yellowhead: Building Capacity and Readiness in our Communities for the Renewable Energy Industry | Serving the West Yellowhead region, this project will offer small businesses and interested community members the opportunity to attend workshops and community events to develop a broader understanding of the energy sector and renewable energy opportunities. There is an observed need for “energy literacy” in our communities and our intention is to host an Energy Literacy Learning Day in Hinton that will be marketed to both community members and small businesses and will enable them to understand the energy sector and possible opportunities for renewable energy business expansion. | Hinton and West Yellowhead region | \$15,000 |
| Lethbridge County | Renewable Energy Project Design | Environment Lethbridge will design an appropriate roof top solar array system that will meet the capacity needs of their administration building. This design will include a strategic plan to ensure the successful development of this project. | Lethbridge County | \$2,263 |
| Medicine Hat College | Community Learning Renewable Energy | This project will develop and provide key learning opportunities related to renewable energy and community deployment of microgrids. By seconding an existing trades faculty mentor for 3 months of full-time work over a period of 6 months, we will create, and present leaning opportunities related to the commissioning of solar PV installations. As well as seminars and demonstration of microgrid technology and applications. These learning areas present a unique opportunity to support community development in renewable energy and microgrids. | Medicine Hat; Rural Alberta Municipalities; General Public | \$25,000 |
| Miistakis Institute | Implementing the Least Conflict Lands for Renewable Energy Tool | To support rural municipal decision making, Miistakis led a stakeholder driven process to develop a least conflict lands tool to support renewable energy development decision making for Wheatland County and County of Newell. Miistakis proposes to explore expansion of the tool to other jurisdictions in Alberta. Expansion will include investigating production of a digital model/tool to enable efficient expansion, refinements to data and methodology to enable incorporation of other jurisdictions, education and outreach activities such as presentations, one-on-one | Alberta- Municipal and Provincial Governments; Wind and Solar Developers | \$25,000 |

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| | | meetings and webinars. The intended outcome is a spatial mapping tool municipality can use to assess least conflict lands for renewable energy development in their municipalities. | | |
| Montana First Nation (MFN) | Renewable energy project pre-feasibility and feasibility studies | Renewable energy project pre-feasibility and feasibility studies, MFN shall engage an industry expert to review and update the feasibility study completed 2017 for a 5MW project. | Montana First Nation (Maskwacis, Alberta) | \$70,000 |
| NAIT (Northern Alberta Institute of Technology) | Solar Acreages | NAIT proposes to build capacity for community generation projects through the development of large-scale solar training platforms to provide the labour force with knowledge and experience in designing and building community scale solar power systems. Each training session will conclude with the development of an actual community generation installation. | Alberta- Industry and educational proponents | \$31,000 |
| Nu Ch'anie | Biomass Energy Pre-Feasibility Assessment | The Nu-Ch'anie Biomass Feasibility Assessment project is designed to evaluate opportunities for Cold Lake First Nations (CLFN) to utilize wood biomass to generate energy for the Nation. The Project will look at opportunities to develop a facility that will provide electricity and heat to one or more community buildings at CLFN. This project will be phase one of a two-phase approach. The Nu-Ch'anie Society will conduct this first phase (prefeasibility assessment) in house and will include evaluating several important aspects of a potential biomass energy project, including; supply chain logistics, initial supplier engagement, siting, community engagement, preliminary financial analysis and business case development. | Cold Lake First Nations (Members, homeowners, Businesses, Tribal Council) | \$29,260 |
| Paddle Prairie Metis Settlement | Paddle Prairie Solar Energy Project | The hire and support a Solar Energy Project Manager to conduct a pre-feasibility assessment on a proposed 3 MW solar facility in Paddle Prairie Metis Settlement. The construction of this solar installation is part of the Settlement's Climate Leadership Plan goals. | Paddle Prairie Metis Settlement | \$60,000 |
| Prairie Sky Cohousing Cooperative LTD | Prairie Sky Community Rooftop Solar | Prairie Sky is seeking to determine the scale, cost, and financial feasibility of a rooftop solar project. Prairie Sky wishes to lower utility costs to residents, contribute to the greening of Alberta's electrical grid, and inject money into | Calgary- Prairie Sky Cohousing | \$17,500 |

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| | | Calgary's diversifying economy. We also intend to create capacity for community energy generation in Calgary, by providing training in solar system planning to interested residents. We hope our project will act as a template that could be emulated by other organizations, institutions and homeowners, thereby multiplying the impact of this investment. | | |
| Solartrees - Keepers of the Athabasca | Solartrees Farms Cooperative | Community Solar Co-op renewable energy capacity building through solar Investing to build capacity with farmer participation. The Community proposes an interactive feasibility study which will result in the formation of 1-3 farmer Co-ops to create a northern Alberta renewable cluster as a means to diversify industry in the 3 communities: Athabasca, Barrhead and Drayton Valley with solar capacity building using a cooperative model with education of solar and training for the communities. | Athabasca County, Barrhead County, Drayton Valley, Indigenous communities in Northern Alberta | \$43,000 |
| SPICE (Solar Power Investment Cooperative of Edmonton) | SPICE - Leading and Seeding Community Solar in Alberta | Through the CECB program, SPICE intends to establish itself as a successful model for renewable energy opportunity development cooperatives (ODC's) which can be replicated across Alberta. Using a Collective Impact approach and framework, SPICE will collaborate with key partners such as the City of Edmonton and Landmark/SOLARMAX to validate its models with a live client case study (First Place Program). SPICE will use this study to identify and overcome technology and investment barriers specific to community generation in Alberta, while establishing a successful model for cooperatives to enable community energy projects. | Greater Edmonton Area; Policy Developers; Financial Institutions | \$90,000 |
| SunAlta Power | 54th Street SE Rooftop Solar Project | SunAlta Power has been engaged by a local property manager to explore and develop a rooftop solar PV project on a commercial property in Calgary, with an estimated 1,081 MWh of annual electricity production. This project will involve a comprehensive technical, regulatory, and financial feasibility study, as well as stakeholder engagement and the development of a project model that has a strong business case. The desired result is an | Calgary Region (Commercial building owners/operators, Energy consumers, General public) | \$31,000 |

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| | | innovative community energy project that can be replicated around the province. | | |
| The Heart and Solar Team | Horizon Housing Society – Glamorgan Project | Heart and Solar is providing a solar energy system to Horizon Housing Society for a new building in the Glamorgan neighbourhood of Calgary. The system will be 50 kW and substantially reduce the operating costs of the building and directly reduce the electricity bills of the over 200 Calgarians (coming from vulnerable populations) that will be living in the building. 50 kW solar energy system from SkyFire Energy Ltd., which will be donated to and owned by Horizon Housing Society. | Calgarians coming from vulnerable populations that are tenants of Horizon Housing Society; Horizon Housing Society; Donor organizations | \$7,500 |
| The Natural Step Canada | Energy Futures Lab – Energy Futures Roadshow | The Energy Futures Roadshow will consist primarily of a series of workshops with businesses, governments, schools, economic developers, community developers and other cohorts in a specific community in Alberta. The 2 to 3-day engagement will be designed and delivered in collaboration with the community, and will be tailored to the community's interests, needs and capacities. The roadshow will include: exploring the community's vision, strategy, and goals for development in relation to the shared vision emerging out of the EFL; identifying key opportunities and challenges relating to energy transition in the community; profiling energy innovations and entrepreneurs relevant to the community's challenges and goals; facilitating constructive dialogue about energy issues among diverse community members. | Alberta- Current or former workers in the oil and gas sector; Municipal Leaders; Local Entrepreneurs; Local Indigenous Communities | \$30,000 |
| Town of Banff | Banff Area Geothermal Exploration Program | The program will evaluate and characterize the geothermal resource and development opportunity for the Town of Banff in a feasibility study. The provincial-first study will focus on heating applications. Extensive surficial field exploration would be undertaken to collect geothermal exploration data over the region of interest. These individual datasets, along with any historical geological information from the region, will be utilized to create statistical maps of geothermal favourability maps. The information gleaned would then be used to create a geothermal economic assessment for the development of geothermal district heating. | Town of Banff (Residents and Businesses); Banff National Park | \$55,000 |

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| Town of Black Diamond | Joint Co-generation Town of Black Diamond /Foothills School Division | Feasibility study for the implementation of a joint co-generation project between two hockey arenas and a high school, permitting, design details for completing the project. The design details for this project include regulatory, size, type of co-generation unit, type of interconnection to the grid with connection and switching requirements. | Community of Black Diamond | \$75,000 |
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