

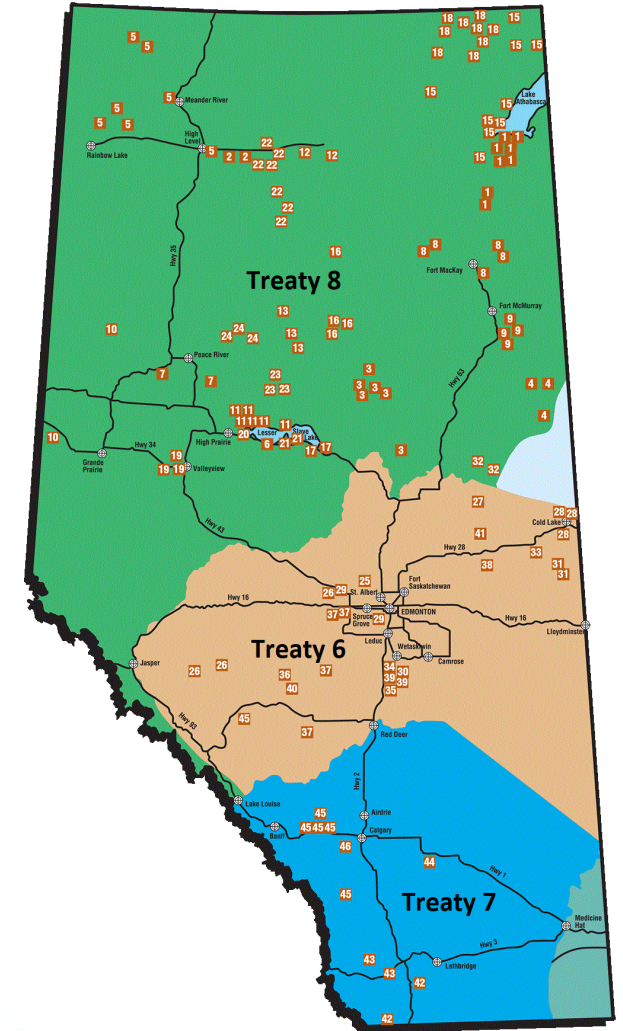
Municipal Community Generation Challenge

Expression of Interest Webinar – June 26, 2019

ACKNOWLEDGEMENT

We would like to respectfully acknowledge that this webinar is being presented to you from Treaty 6 territory, and reaching you in Treaty 6, 7, and 8 territories; all traditional lands, meeting grounds, and travelling routes of First Nations and Métis people.

We acknowledge all the many First Nations, Métis, and Inuit whose footsteps have marked these lands for centuries, and whose presence continues to enrich our vibrant communities.



AGENDA

HOUSEKEEPING

CHALLENGE OVERVIEW

EXPRESSION OF INTEREST APPLICATION OVERVIEW

QUESTION PERIOD

HOUSEKEEPING

- **Please mute your microphones to avoid echo**
- **If you are joining by phone, please enter your Conference ID when prompted**
- **Submit questions through the chat messaging box, located on the bottom left corner**

EQUITY, DIVERSITY AND INCLUSIVITY

We believe the Alberta Research and Innovation ecosystem is stronger and more sustainable when it is broadly representative of the overall **diversity of our community**

We strive to ensure that all interested and qualified parties have an **equitable opportunity to participate and contribute to the ecosystem and that our processes are inclusive**

MUNICIPAL CLIMATE CHANGE ACTION CENTRE

Provides funding, technical assistance, and education to support Alberta municipalities, schools, and non-profits in addressing climate change by reducing their greenhouse gas emissions



ALBERTA INNOVATES

Aims to diversify Alberta's economy, improve our environmental performance and enhance the well-being of Albertans through research and innovation

C-FER
Technologies



 **InnoTech**
ALBERTA

CLIMATE CHANGE INNOVATION AND TECHNOLOGY FRAMEWORK (CCITF)

By year 2030, Alberta's use of innovation and clean technology will accelerate the shift to a lower carbon economy, generating significant environmental and economic benefits

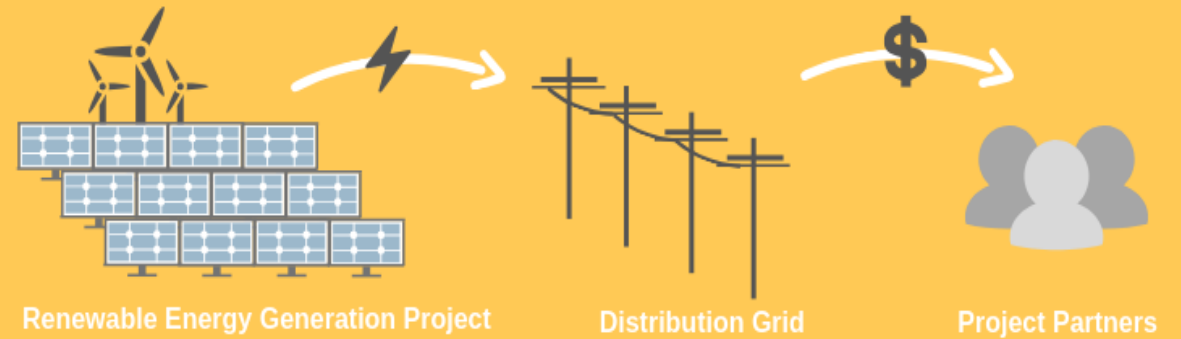
MUNICIPAL COMMUNITY GENERATION CHALLENGE

WHAT IS THE COMMUNITY GENERATION CHALLENGE?

Funding to develop and install one or more replicable, low carbon municipally lead community generation projects in Alberta

- ✓ **Allows communities to participate in energy projects through full or partial ownership**
- ✓ **Gives Albertans access to renewable energy and generate revenue by selling electricity to the grid**

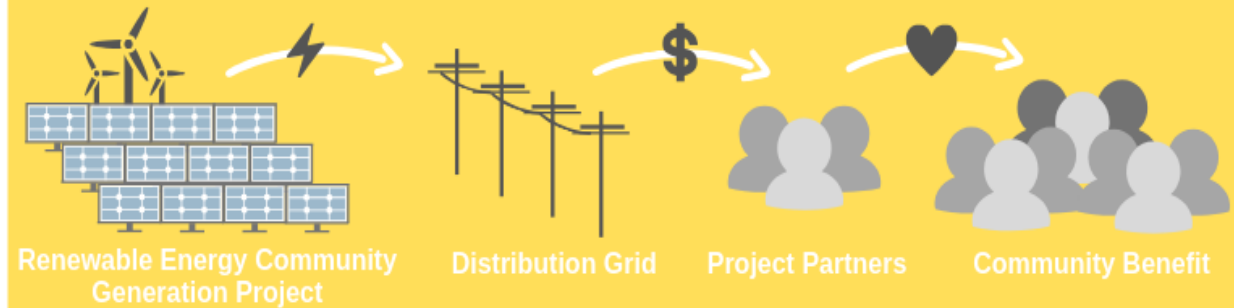
SMALL SCALE



Small Scale Generation facility sells electricity to the grid and the project generates revenue.

TYPES OF SMALL SCALE ELECTRICITY GENERATION

COMMUNITY GENERATION



Community Generation is a subset of Small Scale Generation. Municipalities, Indigenous communities, non-profits, universities, and others can partner together or with private developers on projects.

Projects require social, environmental, or economic community benefits, such as creating local jobs or building community infrastructure.

FUNDING



\$7 million



\$3 million

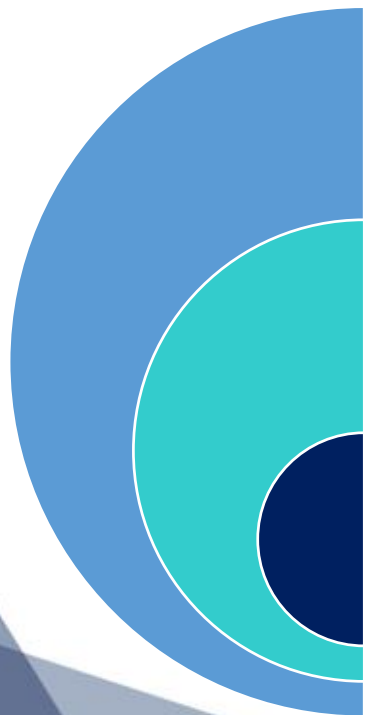


\$10 million

The municipality/ SME Network partners are expected to contribute financially (cash, in kind, or combination) to the project in an amount 25% or more of the AI contribution

FUNDING

EXAMPLE FOR ONE PROJECT WITH TOTAL COST = \$10,750,000



**Municipal Climate
Change Action Centre**

\$7 Million

Alberta Innovates

\$3 Million

**Municipality and
Partners**

**\$750,000
(25% of AI contribution)**

**FUNDING RECEIVED
FROM MCGC
=
\$10 MILLION**

CHALLENGE TIMELINE



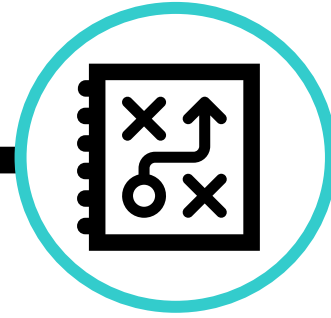
STAGE 1

Municipalities
Submitted
Letters of
Interest



STAGE 2

**Expression of
Interest Due by
August 9**



STAGE 3

**Full Project
Proposal Due
by October 18**



STAGE 4

**Project
Completion Due
by March 31, 2022**

Webinars will be held at each stage



STAGE 1: LETTER OF INTEREST



STATUS: COMPLETE

**39 municipalities passed the Letter of Interest stage
and can proceed to Stage 2 as a Lead Applicant**



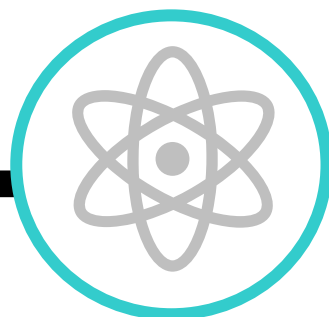
STAGE 2: EXPRESSION OF INTEREST

[STATUS: IN PROGRESS]



STEP 1

Read the
Program Guide



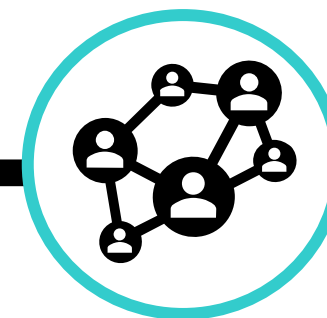
STEP 2

Attend
Expression of
Interest webinar



STEP 3

Network
Formation



STEP 4

Expression of
Interest due
August 9

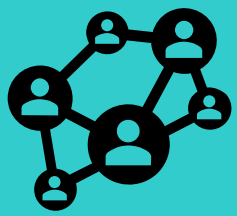


ALBERTA INNOVATES



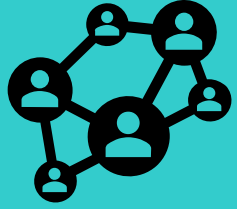
MCCAC
Municipal Climate Change Action Centre

EXPRESSION OF INTEREST APPLICATION



CHALLENGE REQUIREMENTS

- ✓ **Development of a network partnership to design a replicable community generation model**
- ✓ **Participation in Knowledge Transfer Activities**
- ✓ **Completion of an Alberta Utilities Commission approved Community Benefits Agreement or Community Benefits Statement**
- ✓ **Technology must adhere to all safety codes, legal and regulatory requirements**
- ✓ **Production, operating and maintenance costs should be competitive**



NETWORK PARTNERS REQUIREMENTS



LEAD PARTNER

**Alberta
municipality**

- ✓ **Passed the
LOI Stage**



MANDATORY PARTNER

**Alberta Small to Medium Sized
Enterprise(SME)**

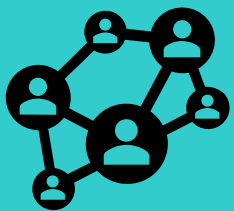
- ✓ **<500 FTE employees**
- ✓ **<\$50M gross annual revenue**
- ✓ **Significant presence in Alberta**
- ✓ **Legal entity in Alberta**
- ✓ **No conflict of interest with municipality**
- ✓ **No outstanding balance to AI**



OTHER PARTNER(S)

**Regional
co-benefit or other**

- ✓ **No conflict of
interest with
municipality**
- ✓ **No outstanding
balance to AI**



BUILD YOUR NETWORK



**Partners
established**



**Contact potential
partners**



**Partners contact
municipal leads**

RESOURCES FOR MUNICIPALITIES

- ✓ **Michael Kerr, Alberta Innovates Network Program Lead**
- ✓ **Challenge Partner Registration Data Base**
- ✓ **Regional Innovation Networks**

CHALLENGE PARTNER REGISTRATION DATA BASE

**Interested Network Partners
submit a registration form**

**List of Network Partners
emailed to municipalities**

**Alberta Innovates
only checks if
registered in
Alberta**

**Municipalities should
assess partners to
meet their needs**

REGIONAL INNOVATION NETWORKS

Alberta Innovates Regional Innovation Networks (RINs) provide:

- **Technology commercialization advice**
- **Mentorship**
- **Program support and equipment**

Full list of RINs on albertainnovates.ca





PROJECT REQUIREMENTS

- ✓ **Meet definition of community generating unit**
- ✓ **Located in Alberta**
- ✓ **Meet the GHG emission intensity definition of renewable energy**
- ✓ **Have an Alberta Utilities Commission approved Community Benefits Agreement or Community Benefits Statement**
- ✓ **Share knowledge with other municipalities**
- ✓ **Sell electricity to the grid**
- ✓ **Projects must be completed by March 31, 2022**

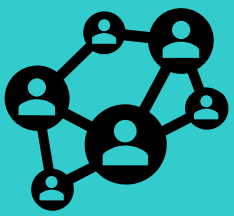
ELIGIBLE TECHNOLOGIES

- ✓ **Solar photovoltaics (PV)**
- ✓ **Fuel cells**
- ✓ **Wind**
- ✓ **Small-scale hydro**
- ✓ **Biomass**
- ✓ **Geo-thermal**
- ✓ **Any other eligible technology per Small Scale Generation Regulation**

Multiple technologies can be combined

OUT OF SCOPE

- X Micro-generation projects**
- X Generating units that do not meet Small Scale Generation Regulation definition of renewable or alternative energy generation**
- X Projects that do not provide community benefits**
- X Successful recipients of Emission Reduction Alberta's BEST Challenge**



APPLICATION SECTIONS

1. INTRODUCTION

- A. Partnership Information**
- B. Project Summary**

2. EXCELLENCE

- A. Knowledge, Technological or System Opportunity**

3. FEASIBILITY

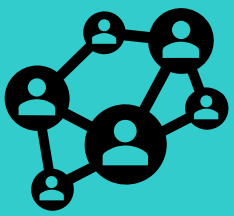
- A. Objective, Project Team and Resources**
- B. Work Plan and Budget**

4. OUTCOMES

- A. GHG Emissions Reduction Impacts**
- B. Community Benefits**

5. INNOVATION

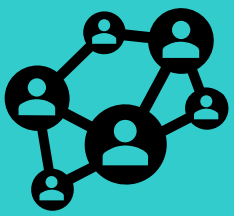
- A. Knowledge Transfer**



1. INTRODUCTION

In the application, outline the following in the Introduction:

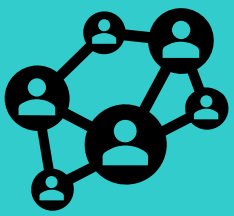
- ✓ **Partnership Information**
 - **Lead Applicant**
 - **Network Partners**
- ✓ **Project Summary**
- ✓ **Location in Alberta**



2. EXCELLENCE

In the application, outline the knowledge, technological or system opportunity:

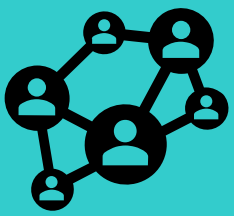
- ✓ **Current technology status summary**
 - **Technological and system related challenges and opportunities**
- ✓ **Technology readiness level self-assessment**
- ✓ **Intellectual property considerations**



3. FEASIBILITY

In the application, outline the project's feasibility:

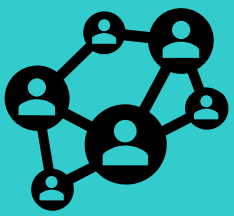
- ✓ **Project objectives and key performance indicators**
- ✓ **Workplan**
- ✓ **Project Funding**
 - **Describe importance of funding**
 - **Complete budget attachment**
- ✓ **Network Team Roles and Responsibilities**
- ✓ **Resources**
 - **Describe facilities and equipment**



4. OUTCOMES

In the application, outline the project's outcomes:

- ✓ **Quantify GHG emissions**
 - **Full quantification will occur at Full Project Proposal stage**
- ✓ **Community Benefits**
 - **Economic, Environmental & Social**



4B. COMMUNITY BENEFITS

Include an overview of your project's Community Benefits:

**If the municipality owns
the generating unit**

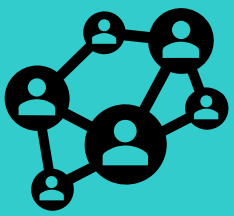


**Community Benefits
Statement**

**If the municipality does not own
the generating unit (3rd party)**



**Community Benefits
Agreement**



5. INNOVATION

In the application, outline the project's innovation:

- ✓ **Knowledge Transfer Plan**
 - **Describe how other municipalities can replicate your project**
 - **Describe how you will transfer the knowledge to other municipalities**

HOW TO APPLY

1. **Download the application form and attachments**
2. **Email completed application form and attachments to:**
inbox_grants@albertainnovates.ca

Maximum is 20 pages, no exceptions.

SUCCESSFUL SUBMISSION ADVICE

- ✓ **Read the Program Guide**
- ✓ **Use clear and concise language**
- ✓ **Define what problem you are trying to solve**
- ✓ **Carefully read and address each question in the application**
- ✓ **Do not wait until the last day(s) to submit**
- ✓ **Contact Michael Kerr for guidance**

QUESTIONS?

albertainnovates.ca

mccac.ca

DEADLINES



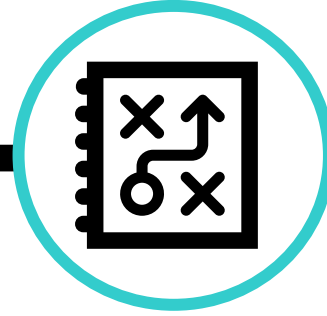
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CONTACTS

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