Gwich’in Council International (GCI) represents 9,000 Gwich’in in the Northwest Territories (NWT), Yukon, and Alaska as a Permanent Participant in the Arctic Council; the only international organization where Indigenous peoples a seat at the decision-making table alongside national governments.

GCI supports Gwich’in by amplifying our voice on sustainable development and the environment at the international level to support resilient and healthy communities.
Geothermal Energy - Iceland

ARENA

http://arena.alaska.edu
What are the current costs of powering off-grid communities?

- **Carbon Tax**: As carbon pricing takes effect, there will be added costs. This is the cost at $10 and $50/tonne.
- **Capital Components**: Cost of building the facilities, paid back over the life of the equipment.
- **Operations & Maintenance**: Paying for staff and repairs to keep the machines running.
- **Overhaul Costs**: Accounting for regularly scheduled major engine overhauls.
- **Fuel Costs**: Acquiring, shipping, and storing the fuel for the community.

What does this mean for communities’ efforts to shift off of fossil fuel power?

Currently, the price paid for renewable energy generation is typically based only on **FUEL COSTS** a common but inadequate yardstick.

**A FAIR PRICE** for clean energy should consider the other costs of running fossil fueled generators.

Not to mention the health & environmental impacts that are not reflected. Estimated at: $0.03 - 0.19/kwh

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**FULL PRICE** of fossil fuel based energy

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Let’s provide a fair price for renewable energy projects.
Over 180 communities across Canada, representing 50 percent of the population, have a Community Energy Plan (CEP).
CHALLENGES WITH COMMUNITY ENERGY PLAN IMPLEMENTATION

- Financial capacity to move projects forward;
- Static and outdated plans that don’t align with the current energy landscape;
- Limits of local government authority to move plans into action;
- Plans don’t reflect the community’s energy vision; and
- Lack of political, stakeholder and staff support.
SOLUTION: ARCTIC SUSTAINABLE ENERGY FUTURES TOOLKIT
The Arctic Sustainable Energy Futures Toolkit will be a print and web-based guide to assist communities in developing their own energy plans - to improve energy efficiency and reduce electricity consumption at a community level.

This step-by-step toolkit will share best practices, resource guides, case studies, videos, templates, and pathways from across the Arctic.

This knowledge transfer will help communities create and implement their energy visions.

The Toolkit will also provide resources to increase energy literacy and capacity for community members.
Through the Arctic Energy Futures Toolkit, communities will be able to:

- Increase energy literacy and engagement around energy infrastructure, energy efficiency and conservation, and clean energy opportunities (both small- and utility-scale projects);

- Understand the impacts of diesel power reliance on social conditions, the environment, and economic development in their regions;

- Examine lessons learned from communities across the Arctic;

- Examine short and medium-term energy demand trends and requirements in their region;

- Identify options for energy demand reduction; and

- Create and implement a community energy plan.
BETA-TESTING

- 2–3 communities
- Run through the full Toolkit
- Access to industry-leading expertise
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