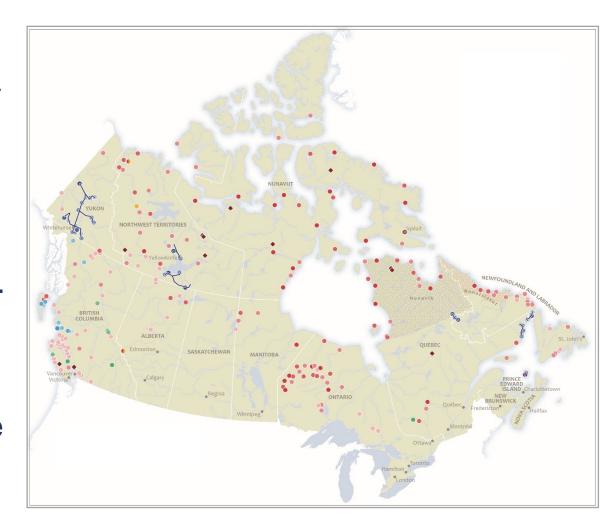


## Diesel Reliance in Remote Communities in Canada

- ~200 communities reliant on diesel for heat and power (~70% Indigenous).
- Communities are geographically dispersed, with varying needs and resources, no one size fits all solution.
- The Government of Canada has committed to support the transition of Indigenous communities from reliance on diesel to clean, renewable and reliable energy by 2030.



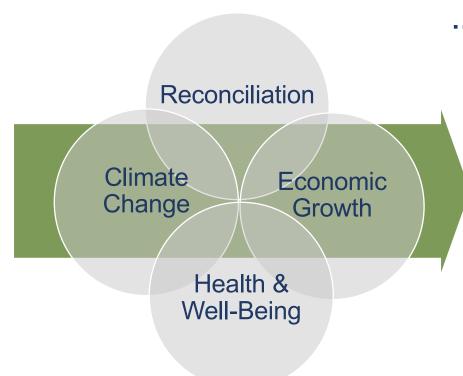




# Supporting remote communities reduce their reliance on diesel fuel is an important federal priority & commitment

### Moving from diesel fuel...

- Sourced outside the community
- GHG emissions
- Spills, local pollution & contaminated sites
- Costly to supply and maintain
- Aging infrastructure and breakdowns



...to renewable energy, energy efficiency and conservation

- Harness local resources
- Improve health & environmental outcomes
- Create local economic opportunities
- Build local capacity and knowledge
- Support energy independence

## **Program Design and Priorities**







NRCan programs/activities: Clean Energy in Rural and Remote Communities program, Indigenous Off-Diesel Initiative, R&D led by **CanmetENERGY** 



Indigenous and Community led projects: increasing self-determination & focus on supporting local expertise building



#### Support can look like:

- Resources (e.g. funding for salary or training)
- Technical review for project proposals & plans
- Community, regional, & national level training and networking
- Mentors
- Tailored clean energy training





# Case Study: Indigenous Off-Diesel Initiative

- \$20M over 4 years
- 14 Indigenous Clean Energy Champions in remote communities:
  - Tailored clean energy training
  - Mentors

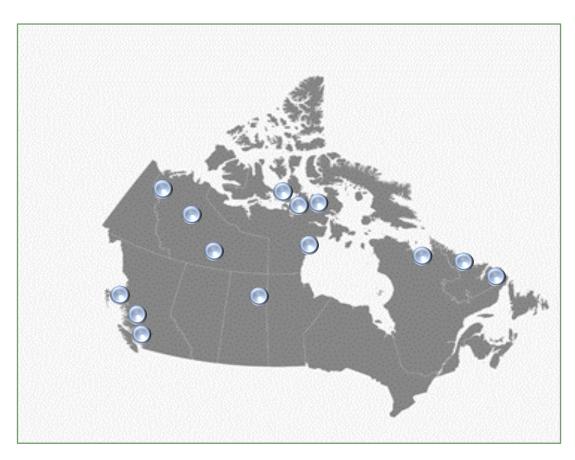
Peer-to-peer network

Resources

Indigenous Jury

 Working with partners and collaborators









## Case Study: Indigenous Off-Diesel Initiative A multi-phase approach

Phase 1 Phase 2 Phase 3 Launch Phase 4 Feb-Mar 2019 Octo 2020-Feb 2023 Mar 2023-Mar 2026 May-July 2019 Oct 2019-March 2022 **Additional Project Call for Clean Energy** Participate in 20/20 **Project Design and Develop Community** funds Champions and an **Catalysts Program Development Clean Energy Plan Indigenous Jury** \$20K funding and \$9M available in \$800k grant \$500K \$25K in-kind follow-on funding support Learn + Network **Project Getting Ready Get Planning Develop and** Construction **Implement Project** Idea





# Case Study: Clean Energy for Rural and Remote Communities Program (CERRC)



**Program Objective:** promote a transition to a more sustainable and clean energy future by supporting projects that reduce reliance on diesel in Canada's rural and remote communities and industrial sites.

## **Funding**

\$220M over eight years (2018-2026) to support renewable energy and capacity building projects.

### **Streams**

- BioHeat \$55M
- **Demonstration** \$60M
- **Deployment** \$90M
- Capacity Building \$10M

### **Focus**

- Innovative demonstrations
- Renewable energy for power and heat
- Skills development

Program website: <a href="http://www.nrcan.gc.ca/energy/science/programs-funding/19791">http://www.nrcan.gc.ca/energy/science/programs-funding/19791</a>

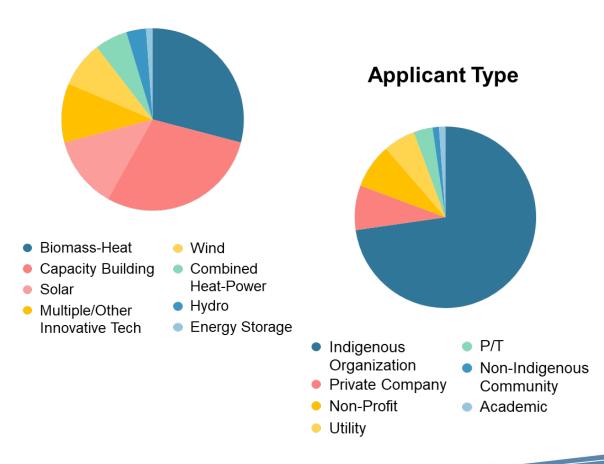




# Case Study: Clean Energy for Rural and Remote Communities Program (CERRC)



#### **Distribution by Tech Type**



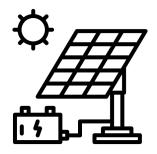
# CanmetENERGY – National Energy Labs



 ReCREAT: renewable energy modelling tool to support communities decision making



 Northern Housing: research to support more resilient, energy efficient and affordable housing



 Wind, Solar, Storage & Microgrid technologies: Technology-neutral analysis and modelling to support communities



## **Lessons Learned & Looking Forward**

- Importance of Indigenous & community led projects
- Inclusive & accessible funding with flexibilities
- Longer timelines for projects
- Early & on-going engagement and prioritization of co-development
- Relationship focus & continual learning
- Additional \$300M announced in December 2020









## Questions?

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