



Wikwemikong
DEVELOPMENT COMMISSION



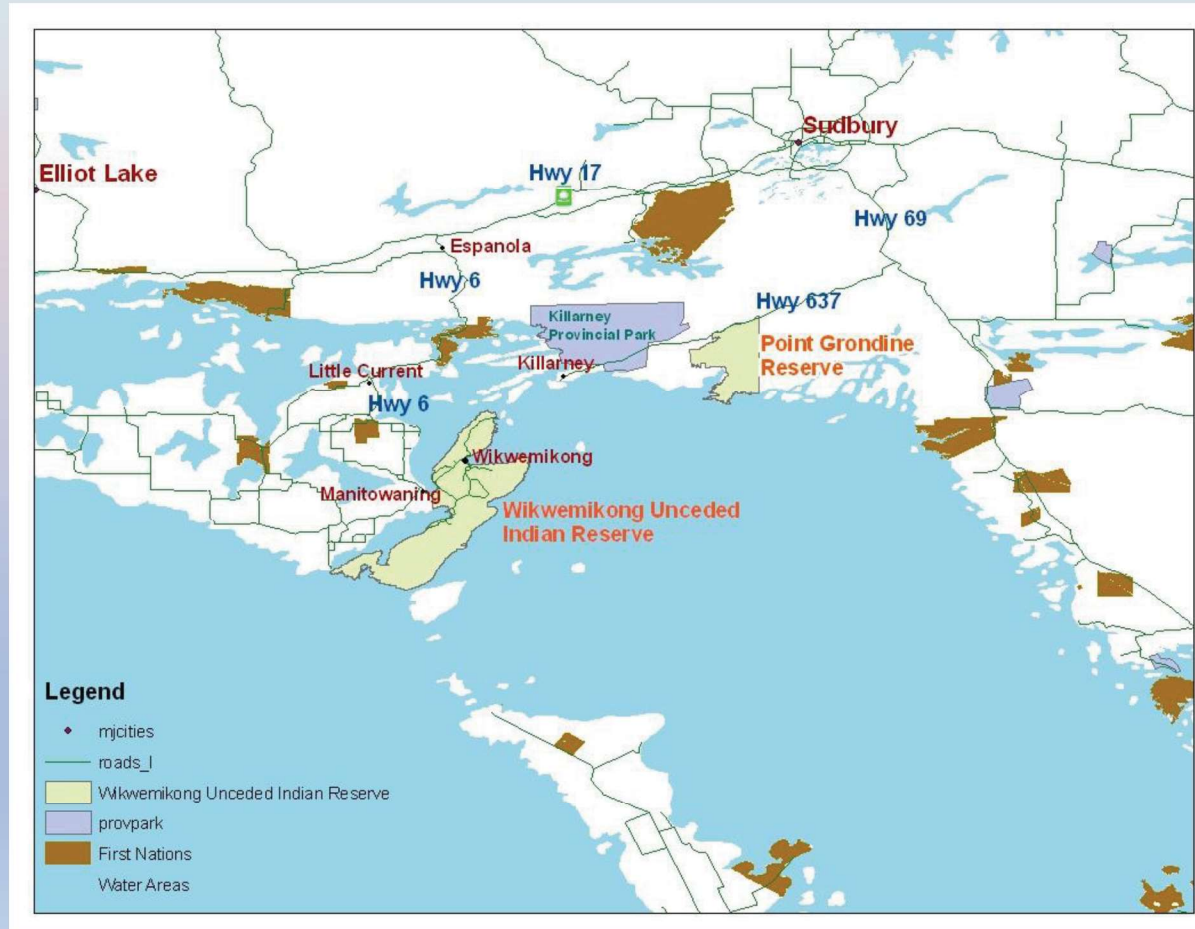
Solid Wood Bioheat Webinar Series Ontario Success Stories

March 4th, 2021

Wikwemikong Development Commission

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Wikwemikong



Why Bioheat?

- **Community Energy Plan – Sustainability**
 - **Climate Change - Environment**
 - **Sustainable Forests**
 - **Economic Benefits**

Supply Chain - Pellet Manufacturing Plant

- **Community Building Benefits**
- **Community members Home heating**

Scope of the Project

- 1. Communications and Awareness**
- 2. Pellet Appliances: Stoves, Furnaces, Boilers**
- 3. Infrastructure, Storage Silos, Garage, and Pellet Delivery Truck**
- 4. Training and Capacity Development**
- 5. Supply Chain**

Projected Project Targets – Benefit

258,700 litres of fuel oil = 704 tonnes of GHG

Demand – estimated 1,100 – 1,200 tonnes pellets (bulk + bag)

Bioheat Installations

2018 -2019	3 Community buildings (Frohling boilers) (98) residential installations (SBI Pellet stoves)
2019 2020	5 Community buildings (Frohling boilers) 2 Residential Furnaces (MeSYS) Pellet Truck Purchase
2020-2021	2 Residential boilers (Frohling) 10 Furnaces (MeSYS) Pellet Silo Storage (2 – 78 Tonne)
2021-2022	28 Residential Furnaces (MeSYS – planned install)

BioHeat Project – WasseAbin High School



BioHeat Project - Wasse Abin Junior School



Super Sacs - Bulk Pellet Delivery (Unloading Loading)



Pellet Storage Silos (2 – 78 tonne capacity)



MeSys Furnace Systems and Pellet Storage



MeSYS Furnace – Storage inside home



MeSYS Furnace – Storage outside the home



Pellet Stoves



BioHeat Project Supply Chain



Others in the Supply Chain

- The StoneMan
- Steve's Plumbing
- Trudeau Plumbing
- South Bay Electric
- Waubetek Corporation
- Wikwemikong Development Corporation
- AE Systems

Product - Key Lessons Learned

- Pellet - Size, Quality, Sourcing Pellets
- Negotiate volumes season prior (Feb, March)
 - Back Up Supply, Back up plan
- Delivery Transportation Logistics
 - Unloading and loading
 - Weather



Considerations

- **Politics – Changes in Government, Provincial, Federal**
 - **Engineering – Community Buildings**
 - **Procurement of Quality pellets**
- **Assessments - Electrical Panel, Existing Ductwork, Chimney, Basement Height, Basement Space, Delivery, Structure (carpentry skills)**
 - **Training (willingness to change, new technologies)**
 - **Education and training**
- **Community communications and education – ongoing**
 - **COVID – Delays in parts and installations**



Chi Miigwetch (Thank You)

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