

# First Nations Conservation Initiatives



# Hydro One Remote Communities

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## CDM Programs

- About our business
- Residential Energy Conservation Pilot project
- Lessons Learned
- Power Cost Monitors
- Residential CDM Programs



# Hydro One Remote Communities



- 19 off grid communities
- 15 First Nation
- Diesel Generation
- Run of the River Hydro electric
- 3500 customers
- Residential & Commercial rates are subsidized

Primary intent of this project:

- Plan and implement community based activities that have a measurable impact on energy consumption.
- Prepare the First Nation for the development and implementation of a sustainable energy conservation plan.
- Assist First Nation with Implementation of Base Line Energy studies.
- Communities are KI (Big Trout), Wapekeka and Kasabonika

Residential  
Energy  
Conservation  
Pilot  
Projects

# Hydro One Remote Communities

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2007/08

## Residential Energy Conservation Pilot Project

- Three communities selected
  - BT
  - Kasbaonika
  - Wapakeka
- Based on energy usage
  - or
- Had baseline energy study completed

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## Residential Energy Conservation Pilot Project

- Installed at each home
- LF showerheads
  - 3 CF lamps
- Outdoor motion detector
- Block Heater Timer
  
- Increase community awareness

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## Kitchenuhmaykoosib Inninuwig Residential Energy Conservation Pilot



- KI (Big Trout)
- Based Baseline Energy Study
- Large Community
- Successful since Advisor outgoing

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## Kasabonika Residential Energy Conservation Pilot Project



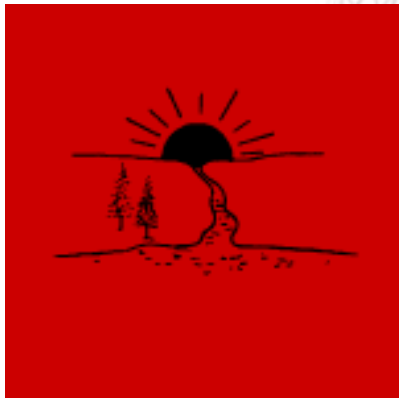
- Had Baseline Energy study
- Coordinator completed phase 1 & part of Phase 2
- Was well received, learned selection of candidate important





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## Wapakeka Residential Energy Conservation Pilot Project



- Customers high user of energy
- One of our smaller sites
- Coordinator selected, but could not complete due to personal matter
- Hired locals to install products
- Learned that we could use local in short timer frame to install products

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## Residential Energy Conservation Pilot Project Lessons Learned

- Need to select an outgoing person
  - Need activities through out the year
- Perhaps short term programs
- More involvement with community stores

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## Residential Energy Conservation Pilot Project Next Steps

- 2008 Evaluation on next steps
  - Try short term programs
  - Hire a temporary person to assist
    - Combine with other activities
      - New Name
- Yearly activities

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## Residential Energy Conservation Pilot Project 2008 Evaluation

- Selection of Local Person
  - Assistance required in our office
  - Need short term programs
- Need activities through out year to keep Energy Advisor busy

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## Residential Energy Conservation Pilot Project Short Term Program

- Hire local people to install products for a short term
- Consider using student to do this during summer
- Quick installation & return

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## Residential Energy Conservation Pilot Project

## Hire Temporary Person

- Get assistance at our office
- Look for someone with First Nation experience
- Leverage with other projects such as renewable

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**Residential Energy  
Conservation Pilot  
Project**

**Combine with other  
Activities**

- OPA programs
- Station upgrades
- Proposed renewable projects

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## Residential Energy Conservation Pilot Project New Name

- Change name for community advisor
- Call them Energy Advisor
- Revised job description



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## Residential Energy Conservation Pilot Project Yearly Activities

- Moving Power Cost Monitors more frequently
- Turning off/on heat trace
  - Cold water detergent give away & conformation of cold water setting
- Yearly School & Community presentations

# Hot Water Blanket Installation

- Reduce standby loss on hot water blankets
- Provide hot water blankets for all customers
- Demonstrate installation & hire local labor – Plumber & summer student to install
- Check setting of thermostats
- Provide information for FN for possible replacement of hot water tanks



# Install Power Cost Monitor

- Building off installation completed in 2007
- Purchase more PC monitors for 4 communities with Energy Advisor
- Have advisors move power cost monitor throughout the year
- Further promotions of conservation & energy efficiency while visiting homes



# Real Time Monitors

- Residential “Real Time” usage monitor includes a display unit that can be placed anywhere in the home
- Shows exactly how much power is being used and what it costs and immediate effects of conserving energy
- Results of Hydro One’s pilot show customers reduced usage by 8% (4% when they had electric heat)
- Chief & Council to loan them out to you



# Hydro One Remote Communities

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## Energy Advisor Yearly Activities

- Moving Power Cost Monitors more frequently
- Turning off/on heat trace
  - Cold water detergent give away & conformation of cold water setting
- Yearly School & Community presentations

# Hydro One Remote Communities

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## Energy Advisor New Communities Webequie & Sandy Lake

- Confirm OPA products installed
- Install products
  - 2 CF lamps
  - Block Heater
  - Outdoor Motion Detector

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Energy Advisor

New Ideas to Explore

- ✓ Solar for Hot Water Tanks
- ✓ Appliance Rebate
- ✓ Local Initiatives
  - ✓ Switches to shut off appliance e.g. Hot water tank