

An aerial photograph showing a coastal town nestled between a large body of water and a densely forested hillside. The town features several buildings and a road winding through the landscape. The water is calm, and the hills are covered in green trees.

# **Remote Community Electrification Program**

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Regional Opportunity Forum  
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# Overview

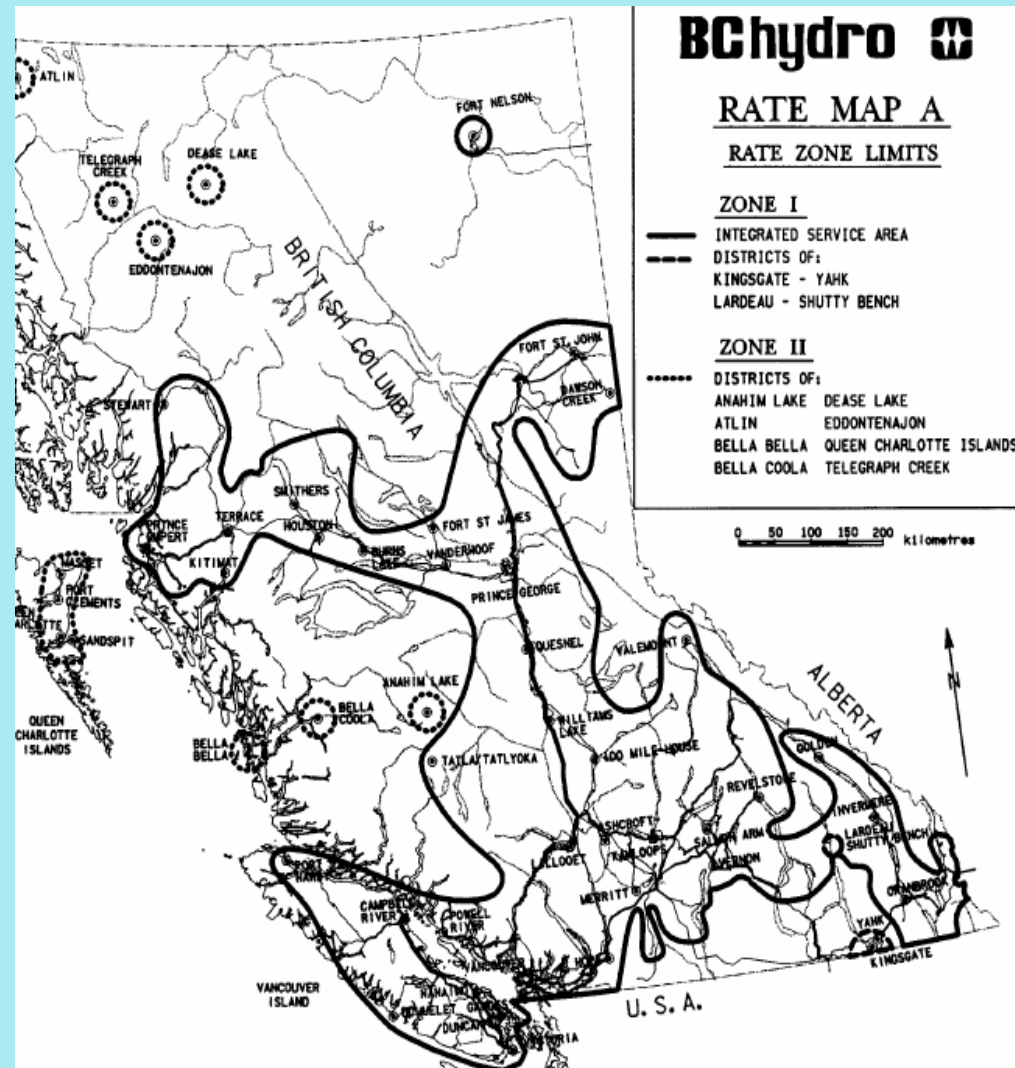


- BC Hydro Service Areas and Rates
- BC Energy Plan and BC Hydro's mandate
- Remote Community Electrification
  - > Program Offer and Benefits
  - > Process
  - > Eligibility
  - > Principles and Goals
  - > Energy Efficiency Initiatives
  - > Roles and Responsibilities

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# BC Hydro Service Areas and Electrical Rates

- **Zone I (Integrated Areas)**
  - > Residential rate is 6.15 c/Kwh
  - > Commercial rate (under 35kW)  
First 14800 KWh/month @  
6.91c/KWh  
Add'l @ 3.32c/KWh
- **Zone II (Non-Integrated Areas)**
  - > Residential rate is 6.15c/Kwh for the first 3000 KWh over 2 month billing period and 10.65c/Kwh thereafter
  - > Commercial rate (under 35kW) is 6.91c/Kwh for the for the first 14000 KWh over 2 month billing period and 11.51c/Kwh above



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# 2007 BC Energy Plan



- “Pursue BC Hydro’s planned Remote Community Electrification Program to expand or take over electricity service to remote communities in British Columbia”
- “Ensure BC Hydro considers alternative electricity sources and energy efficiency measures in its energy planning for remote communities”

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# Remote Community Electrification Program Offer and Benefits

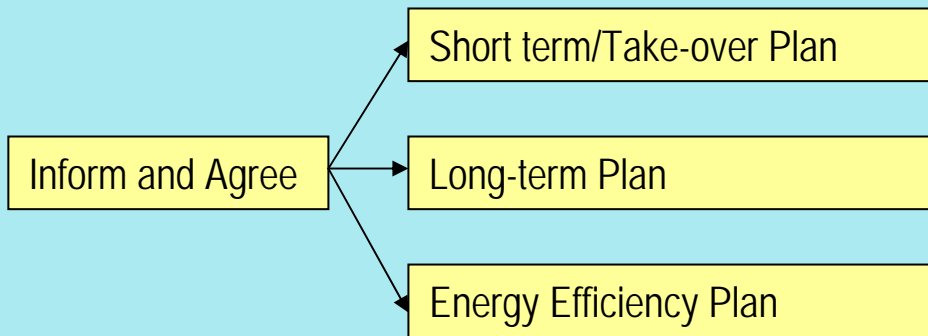


- BC Hydro offers to provide electrical utility service to interested eligible remote communities.
- The benefits of selecting BC Hydro as electricity utility service provider include:
  - > cost savings
  - > reliability
  - > safety
  - > energy efficiency
  - > alternative energy
  - > contract and training opportunities
  - > convenience

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# Remote Community Electrification Program Process

- Inform remote communities about BC Hydro's offer of Utility Service
- If BC Hydro is selected as a Utility Service Provider:



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# Remote Community Electrification Program Eligibility

- Community must be in a rural area and in existence for 20 years
- More than 25 people residing there all the time in 10 or more permanent homes
- Homes more than 1.5 km away from the BC Hydro “grid” OR not able to take advantage of the **Uneconomic Extension Allowance** program to connect to the grid
- Other than First Nations communities, residences must not be situated on private land.



# Remote Community Electrification Program Principles

- BC Hydro owns the diesel and distribution assets
- Existing (INAC) funding is maintained at existing levels, indexed for population growth and inflation and transferred to BC Hydro
- Each building in the community is metered and must apply to receive service from BC Hydro
- RCE's goal is to have 50% of energy generation come from alternative (i.e. non-diesel) sources. Future alternative supply to come from a Call For Proposals



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# How will BC Hydro achieve RCE goal of 50% of energy coming from alternative sources?

- Development and Implementation of Remote Community Electricity Plans (RCEPs) for long-term supply options
  - > Supply options identification and analysis
  - > Resource monitoring and feasibility studies
  - > Call for Proposals
  - > Potential BC Hydro investment in alternative energy supply projects
- Resource Option Scan
  - > Identified recourse options: micro-hydro, geo-thermal, tidal, wind, wave, biogas, biomass, solar, in-stream flow, and storage options AND approximate cost of energy
- Emerging Alternative Energy Technologies Initiative
  - > Match suppliers of alternative technologies with interested remote communities that have resource potential
  - > Implement demonstration projects



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# Remote Community Electrification Energy Efficiency Initiatives

- Demand-Side Management Options Scan
  - > Identify DSM options, costs and applicability to remote communities
- Demonstration Homes
  - > Renovate existing homes or ensure new homes are energy-efficient
- Power Smart for Remote Communities
  - > Implement specific measures in communities
  - > Train outreach coordinator in communities



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# Remote Community Electrification

## BC Hydro

- Plans for the community's short and long term electricity needs
- Owns, operates and maintains the diesel generators and distribution system
- Assesses and implements alternative supply options, where feasible
- Manages customer billing and administration
- Delivers Power Smart programs
- Funds cost overruns

## Community

- Applies for service to BC Hydro
- Pays electrical rates as per BC Hydro's Zone 2 tariff
- Transfers existing (INAC) funding to BC Hydro annually (inc forecast capital)
- Designates a community champion to ensure effective electricity program
- Partners with BC Hydro to develop and implement Power Smart solutions
- Provides input to BC Hydro on future direction