

Project: Community Energy Baseline

Client: Lil'wat First Nation/Mount Currie Band

Key Deliverables: Community Energy Baseline Report with Energy Measure Evaluation Matrix



Timeline: September 2010 – April 2011

WCS Role: Working with Lil'wat staff, the Centre created a terms of reference for the study, collected background data from a variety of sources, analyzed proposed energy measures against evaluation criteria and provided recommendations in a final report with Band review and input.

Project Details

This project established an understanding of current energy and emissions and evaluated potential measures for moving to an energy future that maximizes benefits and minimizes impacts. The resulting Community Energy Baseline (CEB) forms the basis for proceeding with Energy Efficiency and Renewable Energy (EE/RE) projects, as well as helping to meet social, environmental and economic goals for the community.

Innovations on this project included the development of comprehensive evaluation criteria based on community and Lil'wat values and the evaluation of proposed energy measures using these criteria to recommend those measures that were the most appropriate to pursue in the local context.

Lil'wat Nation Community Energy Baseline (CEB)												
Evaluation of Potential Energy Demand (Efficiency) and Supply Measures												
Measure based on Recommendation #	Measure	Sustainability Priority								Overall Assessment	Comments	
		Social and Cultural			Economic			Environmental	Strategic			
		Traditional Values	Health and Safety	Equity	Energy Security	Capital Costs	Operating Costs	Feasibility	Environmental Impacts			Flexibility
0	Energy Demand Measures											
1	Move towards more efficient land use patterns	●	●	●	●	●	●	●	●	●	●	For future community plans and major development projects, consider developing higher density nodes with mixed uses (i.e., commercial, institutional, and residential) within the community that can better limit travel distances for services, be better served by public transit, and support potential district energy systems in the future. Consider additional multifamily residential buildings within the community. Multi-family buildings share walls, reducing heat loss to the exterior, and are supportive of potential larger-scale alternative energy systems, such as geoechange.
2	Promote infill and multifamily residential buildings within the community	●	●	●	●	●	●	●	●	●	●	

Reference:

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