



Fact Sheet 5

Low Impact Hydroelectric Power

Low impact hydro-electric power	
2001 Domestic Capacity	915 MW
Technology Definition	Run-of-river. Using EcoLogo definition of run-of-river hydro-electricity generation.
Product(s)	<ul style="list-style-type: none"> • Electricity • Natural hedge against hydrocarbon fuel price • Emission reductions • Environmental attributes not directly associated with ERS
Equipment Manufacturing Centers	<ul style="list-style-type: none"> • US, Canada, Europe
Technology Stage	<ul style="list-style-type: none"> • Mature, commercially technology, various turbines in existence
Applications	<ul style="list-style-type: none"> • Small scale, Distributed Resource, remote communities, customer generation and utility scale
Cost estimate for generation	<ul style="list-style-type: none"> • Generation Cost: C\$40 - 90 /MWh • CAPEX: C\$1500- 3000/kW • OPEX: C\$5 - 15/ MWh
Impacts: Positive	<ul style="list-style-type: none"> • zero emissions associated • non depleting resource • long-term jobs • light environmental footprint
Impacts: Negative	<ul style="list-style-type: none"> • often located far from load/grid • may have fisheries impacts • cumulative impacts may increase as a result of multiple projects
Potential	<ul style="list-style-type: none"> • 22,400MW in BC • Good potential in Quebec and Ontario
Existing Barriers in Canada	<ul style="list-style-type: none"> • Competitiveness compared to large scale projects • Access to crown land/water permits • Regulated markets • Access to transmission