



14 Armshow River Hydro

Renewable energy was explored for Iqaluit, this site was rejected due to its importance for hunting, fishing, recreation and animal habitat. We hear you. All options in this area are not recommended.

The last time renewable energy was explored for Iqaluit, this site was rejected due to its importance for hunting, fishing, recreation and animal habitat. We hear you. All options in this area are not recommended.

Advantages

- ✓ 99% of energy demand met by renewables
- ✓ Low to Medium technical risks (cold climate + Geotech)
- ✓ Low constructability risk
- ✓ Large MW capacity
- ✗ Heavy land and resource use year-round by Iqalungmiut
- ✗ Will affect the migration of arctic char. This is an important char habitat and fishing area
- ✗ Will break up a large amount of land used for animal habitats. This is an important migratory corridor for many animals
- ✗ Site used for harvesting various species (beluga, bowhead, clam seaweed, ptarmigan, caribou and berry harvesting).
- ✗ Will affect waterways leading to Iqaluit, including areas used to teach fishing to younger generations
- ✗ Health and Safety risk rated "medium"

Summary

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99.3%

Reduction in Diesel Consumption for Electricity Generation



Scan here to learn more about this project option

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15 Sylvania Grinnell Bend Hydro

Hydro options are more expensive than Iqaluit's diesel system and electricity costs would increase. We would not recommend this site for multiple reasons, including community use, cultural importance and high cost. This is the lowest ranked site.

Sylvia Grinnell options are more expensive than Iqaluit's diesel system and electricity costs would increase. We would not recommend this site for multiple reasons, including community use, cultural importance and high cost. This is the lowest ranked site.

Advantages

- ✓ 99% of energy demand met by renewables
- ✓ CO2-free electricity generation
- ✓ No CO2 emissions
- ✓ Large Energy/Capacity Range
- ✓ Medium Technical Risks
- ✓ Low risk associated with reliability.
- ✓ Sylvania Grinnell is close to town. Short transmission line required (14 km)

Summary

- ✓ 99% of energy demand met by renewables
- ✓ No CO2 emissions
- ✓ Large Energy/Capacity Range
- ✓ Medium Technical Risks
- ✓ Low risk associated with reliability.
- ✓ Sylvania Grinnell is close to town. Short transmission line required (14 km)
- ✗ High Health and Safety issues
- ✗ High capital cost; electricity would cost more than diesel
- ✗ High environmental impact: Will create a very large reservoirs following dam construction that will wipe out land habitat
- ✗ Territorial Park where many Iqaluit residents frequent
- ✗ Site used for teaching fishing skills to youth and harvesting various mammals and fish.
- ✗ Popular river to gather fresh water



Reduction in Diesel Consumption for Electricity Generation



Scan here to learn more about this project option

16 Slyvia Grinnell Jag Hydro

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Slyvia Grinnell options are more expensive than Iqaluit's diesel system and electricity costs would increase. We would not recommend this site for multiple reasons, including community use, cultural importance and high cost. This is the lowest ranked site.

Advantages

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 - ✓ CO2-free energy
 - ✓ Large energy/capacity range
 - ✓ Medium technical risks
 - ✓ Low risk associated with reliability
 - ✓ Sylvania Grinnell is close to town. Short transmission line required (14 km)
- ✗ High health and safety issues
 - ✗ High capital cost; electricity would cost more than diesel
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Reduction in Diesel Consumption for Electricity Generation



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