

# Planning for cold weather, low water and emergencies



Thermal Energy Part of our **Future-Focused Portfolio**



Yukon Energy is working on a portfolio of new energy projects to build a sustainable, cost-effective and reliable energy future for Yukon.

Yukoners can be justifiably proud that most of our electricity – more than 90% of it – is renewable. Hydro is our main source of electricity, with some liquefied natural gas and diesel energy used to ensure reliability on our isolated grid.

As Yukon continues to grow, so does our need for electricity. Under certain emergency conditions, our need for electricity outpaces its availability.

While we work to maximize the resources we have, build more renewables and encourage energy conservation, we need to invest in an upgraded “insurance plan” to provide reliable and affordable power when it’s needed the most.

## CRITERIA

Our insurance plan must provide safe and reliable electricity quickly during:

- loss of hydro generation
- peak hours of consumption
- low water periods
- extreme low temperatures
- emergencies

## PROPOSED SOLUTION

Electricity generated using LNG (liquefied natural gas), diesel or both (dual-fuel) is proven to be the most reliable and cost-effective solution to meet our insurance plan’s criteria.

Rather than continuing to rent additional generators annually, it’s time we upgrade our insurance plan and build a permanent thermal generation facility.



## WE WANT YOUR INPUT

We'd like Yukoners' help in making the following decisions:

- 1. Which of the thermal fuel options – LNG, diesel or dual-fuel – is right for the plan?**
- 2. Which of the proposed sites do you prefer?**

Together, we can design and build an electricity insurance plan that provides the security we need in our future-focused portfolio.

That's the power of Yukon.

Learn about the options online or at an open house, and tell us what you think.

[yukonenergy.ca/thermal](http://yukonenergy.ca/thermal)



### THERMAL ELECTRIC GENERATION FACILITY Proposed Locations

- 1 Beside our Takhini substation**
- 2 Near the Whitehorse sewage lagoon**
- 3 At the Whitehorse landfill**
- 4 At our diesel plant**
- 5 Across from our generating facilities**



[yukonenergy.ca](http://yukonenergy.ca)

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