

2016 YUKON ENERGY resource plan

March 2016 Update

Yukon Energy has started the work to develop a comprehensive plan to meet Yukon's electricity needs between now and 2035.

The Process

There are essentially four steps to our planning process:



Step 1: Learn how much electricity we will need between now and 2035;

Step 2: Determine how much electricity we can currently generate, and how much of a shortfall will need to be made up over the next two decades;

Step 3: Consider all energy options available to us, analyze each one based on consistent criteria, and determine which ones make the most sense to meet the future electricity needs of Yukon; and

Step 4: Write a plan that will be submitted to our regulator, the Yukon Utilities Board, for its review.

Feedback

To get input and feedback from Yukoners, we are working in three parallel streams:

- **Technical Advisory Committee:** Yukoners representing a broad range of perspectives, including business, mining, government, First Nations, environmental, and utility interests.
- **First Nations:** as governments, potential proponents and business partners, and as Yukon citizens.
- **Yukon public/stakeholders**

There will be regular opportunities throughout this year to share your views and suggestions, through face-to-face meetings, a survey, and an interactive website.

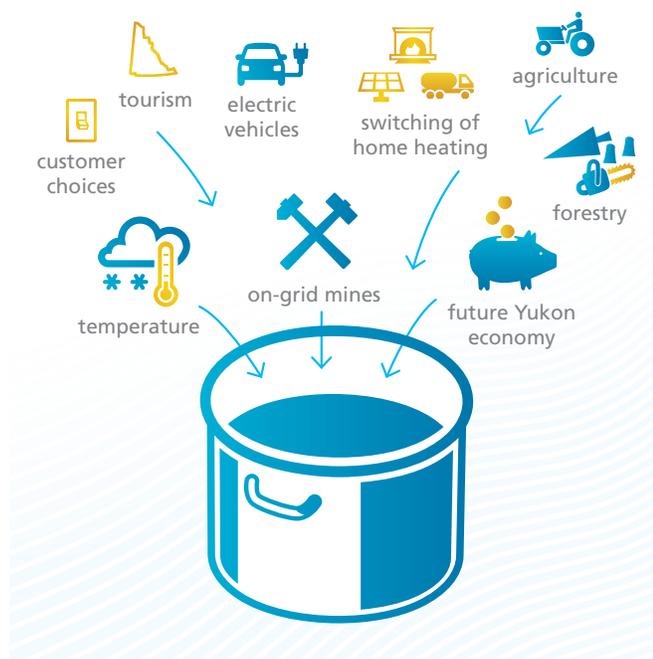


Progress to Date

Over the last few months, we have been focused on determining how much electricity we will need to the year 2035. We considered several factors:

- Future economic activity (mining, tourism, forestry, agriculture, government spending, etc.)
- Temperature/climate change
- Consumer habits
- Future electrification (electric vehicles and home heating fuel switching)

Recipe for a load forecast



We have also developed a set of criteria by which we will use to fairly weigh the pros and cons of each potential new energy option. We will consider technical (how much electricity can be produced and when), financial (the cost of the electricity) as well as the following environmental and socio-economic attributes:

- Animals, fish and their habitat
- Project footprint
- Pollution
- Traditional lifestyle
- Tourism/recreation
- Heritage resources
- Cultural and community well-being
- Economic growth/jobs

Yukon Energy is working with the Yukon government's Bureau of Statistics to develop a survey that a random set of Yukoners (approximately 5,000) will be asked to complete in April. Each question in the survey will link back to one or more of the attributes, giving us a sense of what is most important to Yukoners when planning for the territory's electricity future.

What We've Learned So Far

- Mining and government transfer payments are the key drivers that influence economic activity, and ultimately, electricity demand. Mines connecting to the grid will be the primary factor in determining how much electricity we will need to provide.
- Temperature/climate change is expected to have some impact, but not a significant one.
- Electric vehicles and home heating fuel switching are also not expected to be major influencers in terms of how much electricity Yukon will need over the next two decades.

Next Steps

- Determine the gap between how much electricity we can produce and how much will be needed.
- Finalize the attributes, and finalize and execute the survey.
- We will come back to you in the early summer with a list of possible energy options, and the results of the survey.

Want more information?



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