

LEGISLATIVE RETURN

SUBMITTED BY: Hon. Ranj Pillai, MINISTER OF ENERGY, MINES AND RESOURCES

1. On April 11, 2018, Kate White, Member for Takhini-Kopper King

asked the following oral question at page(s) _____ of Hansard

submitted the following written question – WQ No. _____

gave notice of the following motion for the production of papers – MPP No. 9

MPP No. 9 adopted March 13, 2018 as an order of the House. full.

RE: government-led renewable energy programs since December 3, 2016



OR

2. This legislative return relates to a matter outstanding from discussion related to:

on _____ at page(s) _____ of Hansard.

The response is as follows:

Enclosed.

March 12/2019
Date

R Pillai
Signature

Motion for the Production of Papers No. 9 for Wednesday, April 11, 2018: "That this House do issue an order for the return of a list of government led renewable energy projects that have been initiated by the Government of Yukon since December 3, 2016."

Initiative name	Short description	Date initiated
Yukon First Nation Energy Capacity Development Project	<p>The Government of Yukon is supporting the development of First Nation-led community energy projects through the implementation of a capacity development project.</p> <p>The project will work with Teslin Tlingit Council, Champagne and Aishihik First Nations, and White River First Nation to model community capacity for each First Nation. Funding is also available to participating First Nations to support capacity improvements.</p> <p>Project learnings will be synthesized into a best practices guide for supporting First Nations in the future.</p>	2018 to present
Solar Panels in Communities with Diesel-Generated Electricity	<p>The Government of Yukon is supporting the installation of solar energy in communities that rely on diesel-generated electricity.</p> <p>Facilities in Beaver Creek and Burwash Landing have seen recent installations, with more facilities being considered for Old Crow, Swift River and Watson Lake. On August 23, 2018, the Government of Yukon announced a \$500,000 investment for the installation of a 940-kilowatt solar array in Old Crow.</p> <p>The application of renewable electricity generation in these areas will result in a direct reduction of greenhouse gas emissions.</p>	2018 to present

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<p>Integrated Renewable Energy Initiative, Yukon Development Corporation</p>	<p>The Integrated Renewable Energy Initiative is a program to support and encourage local/community participation in the commercial-scale generation of electrical or heat energy from renewable sources. The initiative has an annual budget of \$1.5 million. Applications have already been received for a number of renewable projects:</p> <ul style="list-style-type: none"> • Teslin Tlingit Council — district biomass system • Carcross/Tagish First Nation — wind generation (up to 20 megawatts) • Kwanlin Dün First Nation — wind generation (up to 3.6 megawatts) • Kluane First Nation — wind generation (up to 285 kilowatts) • ORO Enterprises — run-of-river hydro (up to 2 megawatts) • Vuntut Gwitchin First Nation — solar generation (up to 940 kilowatts) <p>In addition, substantial interest from other potential project advocates has been shown.</p>	<p>2018 to present</p>
<p>Moosehide Photovoltaic (Solar) Energy System with Tr'ondëk Hwëch'in</p>	<p>The Government of Yukon is working with Tr'ondëk Hwëch'in to install a new photovoltaic (solar) energy system for the Moosehide community near Dawson. The project is fully owned by the First Nation.</p>	<p>2018 to present</p>

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	<p>Funding has been approved under the Canada-Yukon Small Communities Fund. The construction contract was awarded to Solvest Inc. in August 2018. Construction is substantially complete and commissioning is expected to take place in spring 2019.</p> <p>The installed capacity of this project is 18.3 kilowatts (photovoltaic capacity), 67 kilowatt-hours of battery storage and 35 kilowatts of diesel.</p>	
<p>First Nation Biomass Projects</p>	<p>Since 2016, the Government of Yukon has received funding from the Government of Canada to provide funds for five biomass projects with the intent of benefitting First Nations with economic development objectives related to forestry.</p> <p>The Government of Yukon completed three projects in 2016/17 in collaboration with Teslin Tlingit Council, Champagne and Aishihik First Nations, and Vuntut Gwitchin First Nation.</p> <p>Another five projects were finished in 2017/18 in collaboration with Selkirk First Nation, Tr'ondëk Hwëch'in, Vuntut Gwitchin First Nation and Kluane First Nation.</p> <p>Based on this work, the Government of Yukon has secured \$1 million from the Indigenous Forestry Initiative (NRCan) to support continued First Nation-led biomass project development until March 31, 2021.</p>	<p>2017 to present</p>

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	<p>The Government of Yukon is currently supporting five projects:</p> <ol style="list-style-type: none">1. An evaluation of energy options available to Champagne and Aishihik First Nations as they plan their Matatana Resort;2. The feasibility of developing a district heating system in the Tr'ondëk Subdivision in collaboration with Tr'ondëk Hwëch'in;3. The viability of installing a biomass heating system in the Kwanlin Dün Cultural Centre in collaboration with Kwanlin Dün First Nation;4. A strategic plan to support Liard First Nation in the development of a biomass economy in Watson Lake; and5. The installation of a biomass boiler in the Carcross/Tagish First Nation Infrastructure Building. <p>The funding agreement signed with NRCan will enable the Government of Yukon to continue to offer capacity development services to First Nations in the form of four plans or studies per year. It will also allow the operationalization of six small biomass systems and a tour of successful biomass projects in Yukon and Alaska as a part of the Yukon/Alaska Wood Energy Conference in Fairbanks in April 2019.</p>	
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<p>Teslin Biomass Project</p>	<p>The Government of Yukon and the Government of Canada provided funding to the Teslin Tlingit Council for the installation of a district biomass heating system to provide heat to 13 of its commercial buildings in Teslin.</p> <p>The project is expected to create three full-time jobs and 15 part-time harvesters in addition to the 26 local contractors required to construct the facilities and systems.</p>	<p>2017</p>
<p>Geothermal Assessment</p>	<p>The Government of Yukon is working to identify regions for geothermal resource exploration. This work includes the drilling of deep monitoring wells to measure ground temperature.</p> <p>The Yukon Geological Survey worked with Ta'an Kwäch'än Council, through its development corporation, to drill the first well in the Takhini Hot Springs area in November 2017. Results reveal unusually high temperatures at 500 metres depth. The Yukon Geological Survey worked with Ross River Dena Council, through its development corporation, to drill another monitoring well in March 2018 in the Ross River area, with data showing only a slightly elevated geothermal gradient. The Yukon Geological Survey is considering redeploying the Ross River instrumentation to an existing mineral exploration hole in the Dawson range.</p>	<p>2017 to present</p>

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<p>Integrated Strategy on Climate Change, Energy and Green Economy (partnership with First Nation and municipal governments)</p>	<p>Partnering with First Nation and municipal governments, the Government of Yukon is developing a new integrated Yukon strategy that will address climate change, energy and green economy, which will replace the 2009 Energy Strategy for Yukon and Climate Change Action Plan.</p> <p>It is expected that this overarching strategy will lead to a number of renewable energy projects, similar to how the Energy Strategy for Yukon and Climate Change Action Plan led to specific actions and initiatives.</p>	<p>2017 to present</p>
<p>First Nation Solar Micro-Generation Partnership</p>	<p>The Government of Yukon has acquired funding from Indigenous and Northern Affairs Canada to install a number of micro-generation projects on Yukon First Nation buildings, including:</p> <ul style="list-style-type: none"> • In 2016/17, the Government of Yukon worked with three Yukon First Nations (Carcross/Tagish First Nation, First Nation of Na-Cho Nyäk Dun and Tr'ondëk Hwëch'in) to install 81.9 kilowatts of solar photovoltaic on four commercial buildings across the territory. • In 2017/18, the Government of Yukon worked with the Champagne and Aishihik First Nations and the White River First Nation to install an additional 76 kilowatts of solar photovoltaic on their administration buildings. 	<p>2016 to present</p>

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	<ul style="list-style-type: none"> In 2018/19, the Government of Yukon is committed to installing an additional 37.4 kilowatts on the Selkirk Centre in collaboration with Selkirk Development Corporation and 5-6 kilowatts of solar to support the operations of the off-grid Ethel Lake Culture Camp collaboration with the First Nation of Na-Cho Nyäk Dun. 	
Renewable energy planning, Yukon Energy Corporation	<p>Yukon Energy Corporation continues to invest in exploring and planning for new renewable energy generation. Projects currently underway include:</p> <ul style="list-style-type: none"> Actively investigating the feasibility of wind in high-potential sites in the territory; Pre-feasibility work to evaluate the potential for small hydro projects. These projects take advantage of fast-flowing rivers to generate electricity without requiring significant need for storage; and Feasibility and planning work. 	2016 to present
Micro-Generation Program	<p>The Micro-Generation Program provides the opportunity for individuals and small businesses, as existing utility customers, to generate their own electricity from renewable energy sources and sell their unused electricity to the grid.</p> <p>From December 3, 2016 to September 14, 2018, 94 micro-generation systems were installed, generating over</p>	2016 to present

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	<p>1,000 megawatt-hours of electricity per year. From September 15, 2018 to February 21, 2019, another approximately 48 systems totalling about 500 kilowatts (0.5 megawatts) were added. These systems have the capacity to generate 500 megawatt-hours annually.</p>	
<p>Independent Power Production Policy</p>	<p>The Independent Power Production Policy was fully implemented in January 2019, allowing First Nation governments, communities and entrepreneurs to generate renewable energy and feed new electricity into the electrical grid to help meet local demands.</p> <p>In January, the Government of Yukon adopted a new regulation that exempts independent power producers from being considered a utility. We also issued a rate structure that will form the basis for future electricity purchase agreements negotiated between the utilities and the independent power production proponents. We worked with ATCO Electric Yukon, Yukon Energy Corporation and Yukon Development Corporation to develop regulations, standards and purchase rates required for the independent production of electricity.</p> <p>The Government of Yukon amended the Independent Power Production Policy in October 2018 by removing natural gas as a qualifying energy source. This makes it a true green energy policy.</p>	<p>January 2019 (full implementation); October 2018 (policy amended to remove natural gas); 2015 (policy first released)</p>