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Ontario's Nuclear Fleet to Play Key Role in Province's Energy Plan

POWER WORKERS' UNION

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15:00 ET

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Good News for the Environment and Economy

TORONTO, Oct. 26, 2017 /CNW/ - Today's latest provincial Long-Term Energy Plan (LTEP) confirms the pivotal role nuclear energy will play in Ontario's clean energy future. Recognizing the significant environmental and economic benefits that this safe, reliable generation delivers, the provincial government remains committed to refurbishing all of Ontario's publically-owned nuclear reactors and to the four-year extension of the operations of the Pickering Nuclear Generating Station to 2024.

Ontario's low carbon nuclear fleet, together with the province's hydroelectric stations, provide over 80% of our electricity without smog-causing pollutants and represent one of the world's smallest carbon electricity system footprints. Each year the nuclear fleet helps avoid about 45 million tonnes of CO2. At a carbon price of $18 per tonne, that represents an annual value of $810 million. These two forms of generation are also the province's lowest cost sources and ensure domestic energy security. Ontario, as the primary host of Canada's successful nuclear industry, benefits from tens of thousands of high skill jobs, R&D and high-value exports. The Plan's support for Small Modular Reactor development is another positive step.

"This is good news for Ontario's electricity consumers and our provincial economy. Bruce Power and OPG nuclear stations will continue to provide huge amounts of reliable, affordable, low-carbon electricity, twenty-four hours a day, seven days a week," stated Mel Hyatt, President of the Power Workers' Union. "That means every day, for decades to come, thousands of metric tonnes of greenhouse gas emissions (GHG) will be avoided. It also means tens of thousands of good, high-skilled jobs right here in Ontario." Hyatt noted that this will facilitate the electrification of the economy, zero emission vehicles and public transit further reducing GHG emissions.

The importance of expanding the province's transmission grid is acknowledged in the Plan. Significant investments are required to "harden" Ontario's bulk delivery system and distribution grid given the catastrophic damage caused by recent storms throughout North America. As well, more could be done to recycle existing electricity infrastructure and develop Ontario's vast, renewable low-carbon biomass resources in partnership with First Nation, Metis and local communities.

The LTEP also focuses on investments in distributed energy resources (DER) such as remote hydro, wind, solar, energy storage and microgrids. Experience with

renewable energy in Ontario suggests any investments in DER should be preceded by transparent, comprehensive cost-benefit analyses to determine their ability to add value. Ontario's electricity consumers should be informed about the real costs of these investments.

SOURCE Power Workers' Union

For further information: Media Contact: Paul S Reece, Chief of Staff, Power Workers' Union, 905 308 1602

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pwu@pwu.ca

Organization Profile

Power Workers' Union

The roots of the Power Workers' Union go back to 1944, with the formation of the Employees' Association at Ontario Hydro. Eleven years later, in 1955, the Association became the Ontario Hydro Employees' Union and joined the National Union of Public Service Employees, which merged with the National Union of Public Employees in 1963 to form the Canadian Union of Public Employees (CUPE),...

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LTEP's re-commitment to Pickering 2024 good news for Ontario

NEWS PROVIDED BY
The Society of Energy Professionals
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TORONTO, Oct. 26, 2017 /CNW/ - The Ontario government's decision to re-commit to the continued operation of the Pickering Nuclear Generating Station (NGS) and the refurbishments of Bruce and Darlington stations in the 2017 Long-Term Energy Plan (LTEP) is good news for the province, says The Society of Energy Professionals (SEP).

The SEP welcomes the LTEP's clear commitment to the continued operation of Pickering NGS until 2024. Pickering plays a critical role in providing Ontarians with low-cost energy while helping to meet Ontario's emission targets and keeping the lights on through the Bruce and Darlington station refurbishments.

"Continued operation of Pickering NGS supports good jobs, emission-free energy, and Ontario's economy," says SEP President Scott Travers, who is a professional engineer and MBA with three decades of experience in Ontario's energy sector. "I'm glad to see that the government listened to the experts and made an evidence-based decision on this important issue."

"There were a lot of jobs on the line with this decision," said Society OPG Local

Vice-President Joe Fierro. "Pickering supports 4,500 workers in the Durham Region and pumps $1.3 billion into the local economy. This was the right decision for everyone."

Additionally, SEP welcomes commitments to enhancements to Ontario's transmission system, including investments in the East-West Tie, a new hydro corridor in the western GTA and various projects in northwestern Ontario.

"These transmission investments are good news," said Travers. "Constraints in the current system limit Ontario's ability to transfer clean power between regions even where capacity exists."

Finally, SEP is also pleased that the LTEP contemplates planning for the widespread use of electric vehicles and electrification of rail.

"We are glad to see a realistic forecast of electric vehicle and rail use," said Travers. "But significant policy work is still to be done and significant investment is still to be made to ensure our local distribution systems are ready to harness the potential of clean technologies."

President Scott Travers is available for comment.

The Society of Energy Professionals represents 8,000 professionals in the public, private and regulatory sectors, including engineers, lawyers and accountants.

SOURCE The Society of Energy Professionals

For further information: Adam Chaleff, (647) 500-2394

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http://www.thesociety.ca

Organization Profile

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Canadian Nuclear Association Welcomes Ontario's Long-Term Energy Plan

Français

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OTTAWA, Oct. 26, 2017 /CNW/ - The Canadian Nuclear Association is pleased with the content and direction of Ontario's latest Long-Term Energy Plan (LTEP).

Focusing on the consumer, climate change, cost, reliability and accessibility, this updated LTEP recognizes and supports nuclear power as the central pillar of Ontario's energy future. For over 50 years Ontario's nuclear fleet has been providing Ontarians with clean and reliable baseload energy. The LTEP leverages nuclear's capabilities by reaffirming the government's commitment to refurbishing 10 of Ontario's 18 nuclear reactors to ensure that future generations continue to benefit from the social, economic and environmental advantages that nuclear provides, including enabling the integration of more renewable power into the electricity system. Furthermore, the LTEP reaffirms the government's commitment to extending the Pickering plant's life to 2024 – this will ensure an adequate supply of clean power while other units are being refurbished.

Between October and December 2016, people and organizations across Ontario had the opportunity to provide their feedback through scores of consultation sessions. Based on this input, the resulting LTEP lays out the framework for

Ontario's electricity mix for years to come, identifying nuclear as an important component of its strategy. The LTEP states that "The most cost-effective option for producing the baseload generation the province needs while releasing no GHG emissions is the refurbish Ontario's nuclear generating stations." Furthermore, the LTEP recognizes that "Ontario's expertise in nuclear energy has enabled it to be a leading jurisdiction in nuclear research and nuclear medicine. Ontario can help create new export opportunities for nuclear innovations such as Small Modular Reactors, Nuclear Fuel Research, and Hydrogen Production."

John Barrett, President and CEO of the Canadian Nuclear Association says that this type of public policy is critical to meeting Ontario's and Canada's climate goals: "Not only does nuclear provide the clean baseload power - over 60% of the province's supply – it also acts as an important enabler to the deployment of renewable, but intermittent, sources of electricity. Nuclear fills the supply gaps that cannot currently be bridged by renewables. Nuclear is also an innovation leader, providing yet more benefits in health care, opportunities for exports and electrification of northern and remote communities. We are proud of the social, economic and environmental contributions made by our sector and we look forward to continuing our work with government and other stakeholders to secure the best low-carbon energy mix for our future. Public policy commitment to clean infrastructure investment is essential if we are to meet the challenge of climate change."

Facts:

- Ontario's nuclear fleet meets over 60% of the province's electricity demand
- In 2016, the cost of nuclear power averaged 6.9 cents/kWh, 30% below the provincial average from all sources
- Even following the $26 Billion investment in refurbishment of Ontario's nuclear fleet (4 units at Darlington, 6 at Bruce), OPG expects that the average cost of nuclear to 2050 will be 8 cents/kWh (2016 dollars)
- The nuclear industry in Ontario contributes over $5 billion annually to the national economy and supports 50,000 Ontario jobs
- Refurbishment is expected to create over 30,000 jobs for the duration of the project (concluding in 2033)

About the CNA:

Since 1960, the Canadian Nuclear Association (CNA) has been the national voice of the Canadian nuclear industry. Working alongside our members and all communities of interest, the CNA promotes the industry nationally and internationally, works with governments on policies affecting the sector and works to increase awareness and understanding of the value nuclear technology brings to the environment, economy and the daily life of Canadians.

Our members are actively involved and are leaders in Canada's production of uranium and nuclear power and are taking leadership roles in the research, design, construction, operation and support to nuclear facilities and technologies.

www.cna.ca

SOURCE Canadian Nuclear Association

For further information: Paul Hébert, Director, Communications, Canadian Nuclear Association, Email: hebertp@cna.ca, 613-237-4262 x106

Related Links

http://www.cna.ca

Organization Profile

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Ontario doubles down on obsolete nuclear – and you're paying for it

October 26, 2017 Bulletins

Ontario doubles down on obsolete nuclear – and you're paying for it

In its just released *Long Term Energy Plan*, the Wynne government has doubled down on its plan to rebuild 10 aging nuclear reactors. The price tag for this dubious plan is a whopper — a **55% increase** in residential electricity rates by 2032 (pg. 28).

This high-cost, high-risk plan flies in the face of worldwide trends, where many countries are moving away from nuclear energy and embracing ever lower-cost renewable sources instead. In fact, in 2016 worldwide wind power output grew by 16% and solar by 30%, while nuclear grew by just 1.4% (largely due to China). Nuclear reactors actually produced only about half as much of the world's electricity supply in 2016 as they did 20 years earlier, a clear sign of an industry in steady decline.

And it's not like Ontario does't have other options. For starters, we live next door to a renewable energy superpower – Quebec. And Quebec has offered to supply Ontario with clean renewable energy at one-third the cost of power from rebuilt reactors. This is power that is available around the clock in every season of the year. Taking Quebec's offer could lower Ontario's electricity costs by **$12 billion** over the next 20 years, but the Wynne government apparently prefers to bet on always-over-budget nuclear projects instead.

Meanwhile, the first stages of the Darlington Nuclear rebuild project are already massively over budget while Ontario Power Generation seeks to continue operating the high-cost, 46-year-old Pickering Nuclear station despite it being surrounded by more than two million people and its power no longer needed.

In the U.S., South Carolina pulled the plug on construction of two nuclear reactors at a cost to ratepayers of billions of dollars. And giant nuclear builders Westinghouse and Areva have both gone essentially bankrupt (with Areva being bailed out by the French government just as Ontario had to bail out the old Ontario Hydro after it became mired in nuclear debt).

Ontario's fixation with obsolete nuclear energy is to say the least puzzling, but what is clear is that this fixation is going to cost us dearly.

Please sign our petition calling on Premier Wynne to make a deal with Quebec to lower our electricity costs and to open the way for a modern renewable energy system. And please forward this onto your friends. Thank you.

Angela Bischoff, Outreach Director

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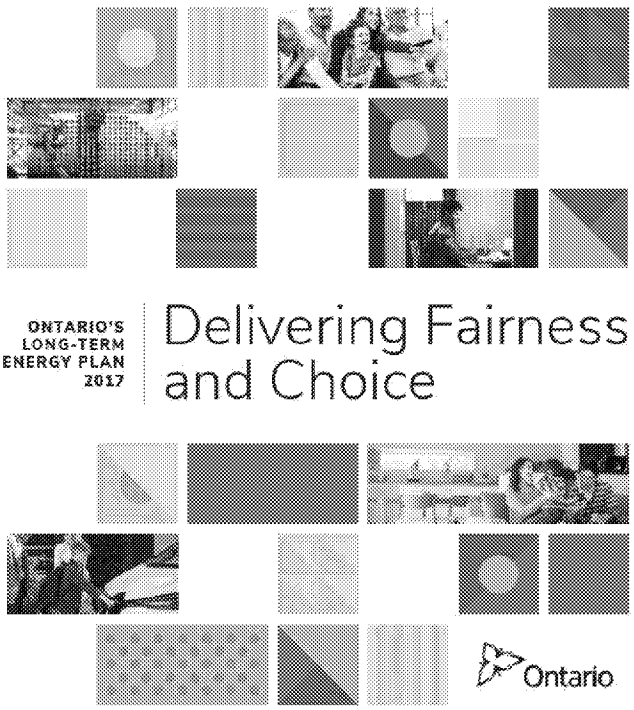
Ontario confirms Bruce Power's role in Long-Term Energy Plan

26
October 2017



The Government of Ontario has reconfirmed its long-term electricity supply policy that will see Bruce Power, and nuclear, play an important role in the province's energy sector for decades.

The 2017 Long-Term Energy Plan was released today after a year of public consultation and government review. The plan reiterates the importance of Bruce Power's Life-Extension Program, which will see the site provide low-cost, carbon-free and reliable electricity through 2064.

RELATED RESOURCES

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What people are saying about Bruce Power's role in the LTEP

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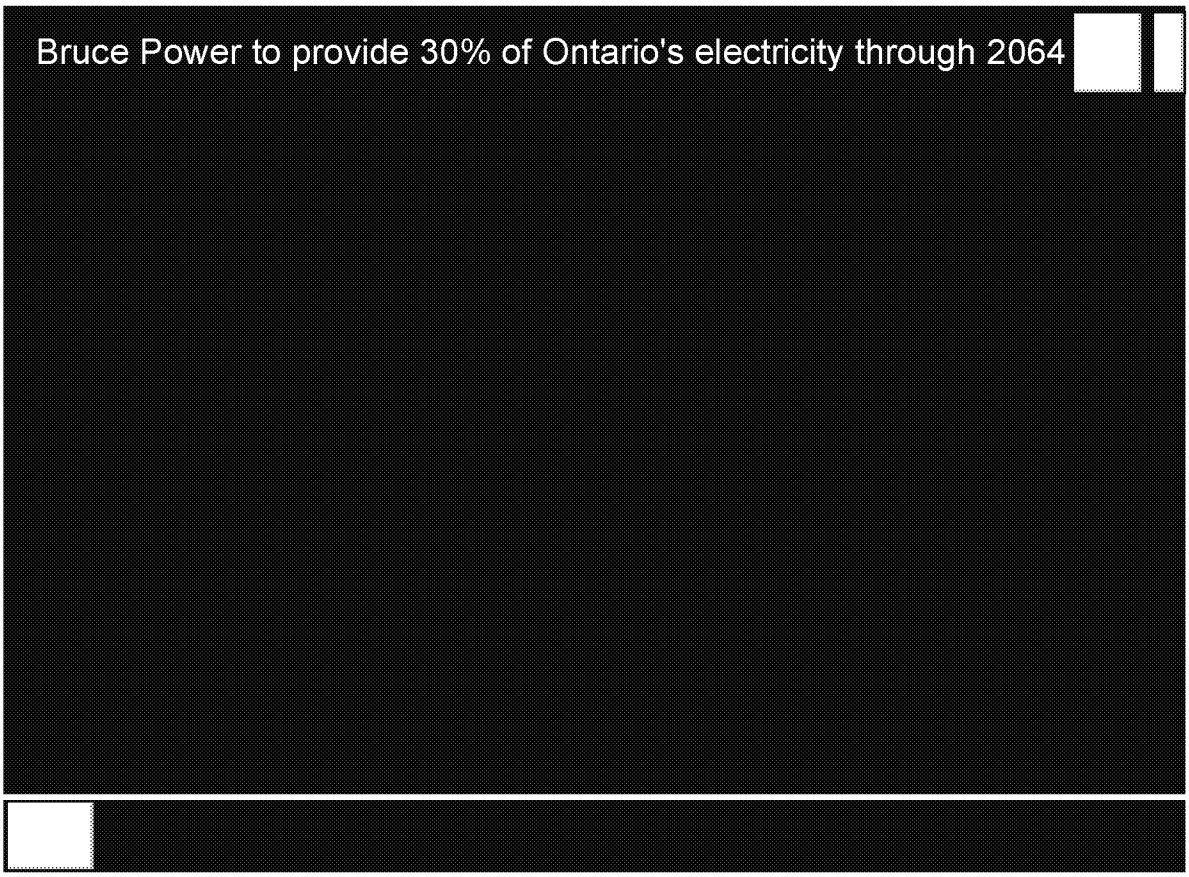
Mike Rencheck, Bruce Power's President and CEO, said it is important to have stable government policy in place so Bruce Power can make long-term investments to secure low-cost electricity for families and businesses.

"We are encouraged by the trust the government continues to have in Bruce Power to provide over 30 per cent of Ontario's electricity at 30 per cent less than the average cost to generate residential power, while producing zero carbon emissions," Rencheck said. "Our Life-Extension Program, which began on Jan. 1, 2016, is on time and on budget, and continues to boost Ontario's economy in every corner of the province."



The government also recognized Bruce Power's other attributes, including its production of medical isotopes, which save lives in Ontario and around the world. Bruce Power's investment programs and operations also create and sustain 22,000 jobs directly and indirectly each year, while injecting $4 billion into the economy annually, all while keeping Ontario's air clean and providing low-cost electricity.

"By extending the life of the Bruce site, Ontario will have the stable, reliable, low-cost and clean energy foundation needed to further pursue modernization and decarbonization of the province's electricity system and economy," Rencheck added. "Nuclear will provide the backbone Ontario needs to meet and exceed its emissions targets, while benefitting families and businesses as a low-cost, reliable source of electricity through 2064."

The LTEP, which is reviewed every four years, is available for download here.

About Bruce Power

Formed in 2001, Bruce Power is an electricity company based in Bruce County, Ontario. We are powered by our people. Our 4,200 employees are the foundation of our accomplishments and are proud of the role they play in safely delivering clean, reliable, low-cost nuclear power to families and businesses across the province. Bruce Power has worked hard to build strong roots in Ontario and is committed to protecting the environment and supporting the communities in which we live. Learn more at www.brucepower.com and follow us on Facebook, Twitter, LinkedIn, Instagram and YouTube.

For more information, contact:

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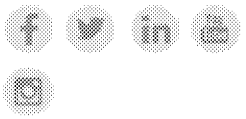

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Historic First Nations-led Transmission Project Gets Major Boost from Ontario's Long-Term Energy Plan

Marketwired
Thu Oct 26 2017

Wataynikaneyap Power Welcomes Government's Recommitment to Connect Remote First Nations Communities in Ontario

TORONTO, ONTARIO—(Marketwired - Oct. 26, 2017) - One of the largest and most transformative transmission projects in Ontario's history got a major boost today when the Ontario Government reinforced its support for the project, known as Wataynikaneyap Power, in its 2017 Long-Term Energy Plan.

The project was first outlined by the Ontario Government in its 2013 Long-Term Energy Plan when it identified the need to connect remote First Nations communities to the electricity grid as a priority. The Ontario Government designated Wataynikaneyap Power as the transmission company to complete the project in 2016, amending the Rural Remote Rate Protection (RRRP) to help fund the project.

"We are incredibly encouraged by the Ontario Government's ongoing support for the project and look forward to the day when we can tie into the provincial electricity grid and provide our communities with safe, reliable and clean energy," says Margaret Kenequanash, CEO for Wataynikaneyap Power. "Connection to the grid will open the door for us to start building the infrastructure we so desperately need."

Wataynikaneyap Power is a First Nations-led project that will revitalize 22 remote First Nations communities in northwestern Ontario. Seventeen of these communities are currently off the grid, relying on very expensive diesel to power their homes and businesses - a situation that has become financially unsustainable, environmentally risky, and unable to meet community needs. This project will enable communities to move away from relying on expensive and undependable diesel plants that produce significant GHG emissions with no capacity to keep up with growth.

With 1,800 kilometres of transmission lines to be built at a cost of roughly $1.35 billion (2015), it's a partnership on a massive scale that has the ability to define the very future of these communities. Without access to reliable power, everything from education, health services, to safe drinking water and the ability to connect new homes and build other critical infrastructure has been hampered.

The 2017 Long-Term Energy Plan anticipates construction of a new line to Pickle Lake by 2020 to support these connections, with the first phase of work scheduled to start in January 2019. In the meantime, work has already begun to connect Pikangikum First Nation, one of the 22 First Nations who are part of Wataynikaneyap Power, to Ontario's power grid after a $60 million funding announcement earlier this summer by the Government of Canada.

Wataynikaneyap Power PM, a wholly owned subsidiary of FortisOntario Inc., is the Project Manager (PM) for Wataynikaneyap Power.

"This is a positive development for the project and assists in advancing Wataynikaneyap Power through the next regulatory and permitting milestones," says Scott Hawkes, President and CEO of FortisOntario Inc. and Wataynikaneyap Power PM. "It's now critical that the Federal Government and the Ontario Government reach a timely agreement on the larger funding framework so the project can file its leave to construct in a timely manner with the Ontario Energy Board to ensure the project remains on schedule."

About Wataynikaneyap Power:

Wataynikaneyap Power is a licensed transmission company equally owned by 22 First Nation communities (51%), in partnership with Fortis Inc. (49%). FortisOntario Inc., a wholly owned subsidiary of Fortis Inc. and an electricity transmission and distribution utility holding company based in Ontario, acts as the project manager. To connect remote First Nations communities to the electrical grid, Wataynikaneyap Power will develop and operate approximately 1,800 kilometres of 230 kV, 115 kV, and 44 kV lines in northwestern Ontario. When complete, the project is expected to save over $1 billion over the next 40 years compared to continued diesel generation. The project will also result in over 6.6 million tonnes of avoided CO2 greenhouse gas emissions, increase economic development opportunities and improve the social and living conditions for remote community residents. More information about Wataynikaneyap Power can be found at www.wataypower.ca

About FortisOntario:

FortisOntario Inc. is an electric utility, which owns and operates Canadian Niagara Power Inc., Cornwall Street Railway Light & Power Company Ltd. and Algoma Power Inc., serving a combined 65,000 customers. FortisOntario Inc. also owns regulated transmission assets with approximately 3,430 kilometres of distribution and transmission lines. FortisOntario is a subsidiary of Fortis Inc., a leader in the North American regulated electric and gas utility industry. For further information visit www.fortisinc.com.

Media Contact:

John Cutfeet, Communications Officer

Wataynikaneyap Power

807-738-0935

cutfeetj@hotmail.com

Jeff Silverstein

Sussex Strategy Group

416-879-4353

jsilverstein@sussex-strategy.com

Kristine Carmichael, Director of Corporate and

Customer Services, FortisOntario Inc.

905-994-3637

kristine.carmichael@fortisontario.com

Length: 734 words

Ontario on the Right Path to Creating a More Efficient, Effective Energy Grid

Marketwired
Thu Oct 26 2017

Opus One Solutions Applauds Long-Term Energy Plan Commitments

TORONTO, ONTARIO—(Marketwired - Oc. 26, 2017) - Opus One Solutions, a leader in smart grid software solutions and services, applauds the Government of Ontario's Long-Term Energy Plan (LTEP). The Government is placing Ontario in a leadership position by enabling and unlocking the benefits of Distributed Energy Resources (DER) using grid modernization and customer empowerment, thereby finding greater efficiencies in the provincial energy market.

In particular, the company is encouraged to see the focus on non-wires alternatives and integrated planning as an avenue for cost-effective and efficient grid management for utilities and customers.

"Innovation and integration of clean, renewable energy sources within the traditional distribution network are the way of the future," says Joshua Wong, President and CEO of Opus One Solutions. "Minister Thibeault and his Government's Long-Term Energy Plan's commitments illustrate that Ontario recognizes the urgency and necessity of finding more sustainable, reliable, efficient, and cost-effective solutions."

Opus One provides a suite of solutions via its GridOS® platform that allows utility partners to use integrated planning, real-time data and model-based planning tools to analyze energy supply and demand, optimize available grid resources, and maximize capacity. This information and integration is becoming increasingly important as utilities plan and manage higher penetrations of solar, energy storage, demand response, electric vehicles, and other distributed energy resources (DERs).

"The Long-Term Energy Plan charts a path forward into a decentralized, digitized, decarbonized, and democratized energy future, supporting the Province's and Canada's Climate Change objectives," says Hari Subramaniam, Chief of Strategic Growth and Policy.

Transactive Energy is the key to enabling the proliferation of DERs and unlocking their true potential across the energy value chain by allowing them to participate and provide services in Ontario's electricity market. This will facilitate new business models, such as community owned DERs and virtual net metering, thereby encouraging new market participants and greater customer choice.

"Opus One Solutions is a leader in the creation of the world's first Transactive Energy platform as part of the New York Reforming Energy Vision initiative. We are looking forward to further enhancing this technology in the Ontario market," adds Subramaniam.

Opus One is focused on connecting the distributed energy network and helping utilities better manage their energy resources through its innovative software intelligence solutions.

With today's announcements, the company sees even more opportunities to work with utilities, other energy partners and consumers in Ontario to create a more efficient and effective distributed energy grid that increases reliability reduces carbon emissions and electricity costs.

About Opus One Solutions

Opus One Solutions is a software engineering and solutions company with the vision of a distributed energy network. Opus One's intelligent energy networking platform,

GridOS®, optimizes complex power flows so that it can deliver real-time energy management and integrated planning to distribution utilities and other managers of distributed energy assets. GridOS is modular, scalable, and integrates seamlessly with existing data systems to unlock greater potential for distributed energy resources, including renewable generation, energy storage, and responsive demand. GridOS also facilitates the management of microgrids - from homes to businesses to communities - for unparalleled grid resiliency and value to the electricity customer.

Website: www.opusonesolutions.com

Twitter: @OpusOneSolns

Media Contact:

Colleen Ryan

(647) 232-6867

cryan@sussex-strategy.com

Length: 536 words