

QAs – LTEP CONSULTATIONS

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Note:

The Questions and Answers which follow are taken from preparation for Estimates, and are intended to provide staff a general overview of the Ministry's messaging and involvement on a variety of issues.

In addressing questions from the public, you are reminded not to offer detailed information outside your own area of expertise. Instead, introduce the individual to an attending staff member who has more familiarity with the issue raised.

Key Messages

- **We're here today to consult with the public about the Long-Term Energy Plan.**
- **We want to hear people's thoughts about Ontario's energy future.**
- **These public sessions are not the only way to participate in the LTEP process. Here are some other ways to get involved:**
 - **Join the EnergyTalks discussion online at <https://talks.ontario.ca/>**
 - **Submit a comment to the Environmental Registry at www.ebr.gov.on.ca (registry number 012-8840)**
 - **Send an e-mail to: ltep@ontario.ca**
 - **For other media questions, please contact the Ministry of Energy.**

Hydro One

Q. The public has made its opposition to the sale of Hydro One very clear. Why are you pushing ahead instead of pulling back?

The Province remains on track to generate approximately \$9 billion in gross proceeds and other revenue benefits. This includes \$4 billion in net revenue gains that will be invested in infrastructure and \$5 billion to reduce debt. As an example, assuming a long-term interest rate of 3 per cent, \$5 billion in reduced debt would provide annual interest savings of about \$150M.

Net revenue gains from the Province's sale of Hydro One common shares will be dedicated to the Trillium Trust to help fund infrastructure projects that will create jobs and strengthen the economy.

Q. What is the current status of the ownership of Hydro One?

In April 2016 the Province completed a secondary share offering of Hydro One shares, generating approximately \$2 billion in gross proceeds that will now be dedicated to critical investments in transit and infrastructure throughout Ontario and pay down debt.

The government continues to hold approximately 70% of Hydro One and will proceed with future offerings in a careful, staged, and prudent manner, over time reducing the Province's stake to 40% while remaining the largest shareholder.

Q. Won't rates rise as a result of your sale of Hydro One? Isn't the interest of the private sector to increase profit by raising rates?

Hydro One does not set its own electricity rates. Rates continue to be set by the independent Ontario Energy Board (OEB).

Applications from electricity companies like Hydro One are reviewed by the OEB and the OEB makes the final decision.

The government has passed legislation that enhances the Ontario Energy Board's powers to continue to protect electricity ratepayers with respect to cost, consumer protection and reliability.

In addition, Hydro One has hired a dedicated Ombudsman, similar to those found at other public companies. The Ombudsman will receive and investigate customer complaints. Hydro One has appointed Fiona Crean as the Ombudsman of Hydro One.

Q. Hydro One customers continue to experience billing problems. What are you doing to help them?

In proceeding to broaden the ownership of Hydro One, one of the Province's objectives was to promote improved corporate performance, including customer service.

Our understanding is that Hydro One has been working diligently to address the customer service issues raised by the Ontario Ombudsman and to become a more customer-focused organization.

Hydro One has indicated it has improved the quality of their call center interactions through improved training, staffing and performance management.

Q. Is Hydro One planning on acquiring smaller Local Distribution Companies (LDCs)?

Hydro One has continued to consolidate smaller Local Distribution Companies (LDCs) with its acquisitions of Haldimand Hydro, Norfolk Power and Woodstock Hydro. The company also recently announced the acquisition of Orillia Power Distribution.

Hydro One is now a publicly traded company with an independent Board of Directors. Developing and executing on the corporate strategy will be the responsibility of Hydro One's new board and management team. We can't speculate about future decisions made by Hydro One.

Q. How are you going to keep 40 per cent ownership?

The government holds approximately 70 per cent of Hydro One and will proceed with future offerings in a careful, staged, and prudent manner, over time reducing the Province's stake to 40 per cent while remaining the largest shareholder.

Legislation was passed to enable the Province to remain the largest shareholder with at least 40 per cent share ownership in Hydro One – and no other single shareholder or group of shareholders working in concert will be permitted to hold more than 10 per cent of the company's shares.

The Province is required by law to retain 40 per cent of Hydro One's voting securities. If Hydro One issues new shares and dilutes the Province below 40 per cent, the Province must take steps to increase its interest back to at least that level.

Q. Why did you remove Hydro One from the reach of the Auditor General?

Hydro One is now a publicly traded company. Even though the government will remain the largest shareholder, it now has different structures and oversight.

Similar changes occurred when there were shares released to the public for Air Canada, Petro-Canada and CN Rail.

The Province required by law that Hydro One create a dedicated Ombudsman, similar to those found at other public companies. The Ombudsperson will be able to receive and investigate customer complaints. Hydro One has appointed Fiona Crean as the Ombudsman of Hydro One.

Q. Are Hydro One employees captured by the “Sunshine List”? If not, why not?

No. Only public sector employees are included on the Sunshine List.

As a publicly traded company, Hydro One is not captured in the *Public Sector Salary Disclosure Act* (PSSDA) and is not required to report under the PSSDA. However, as a publicly traded company, Hydro One is required to disclose the total compensation levels of the CEO, CFO and three other highest paid executives of the corporation each year.

Agreement with Chiefs of Ontario

Q. What is this deal you’ve made to sell the Chiefs of Ontario Hydro One shares?

In July 2016 the Province and First Nations in Ontario (as represented by the Chiefs-in-Assembly) announced an agreement-in-principle for the Province to sell up to approximately 15 million shares of Hydro One Limited, depending on the level of First Nation participation.

Q. What are the terms of the deal?

The shares would be sold to a new collective investment fund owned by First Nations. The Province will continue to own over 67% of the shares of Hydro One after the sale.

The First Nations investment vehicle would purchase the shares with a 25-year loan provided by Ontario. The interest rate for the loan would be the Province’s relevant borrowing rate, plus 15 basis points.

Q. How will this benefit First Nation communities?

This is a significant opportunity for First Nation communities and represents important progress towards sustainable economic development opportunities for Ontario’s First Nations. One of the cornerstones of ENERGY’s policy framework is supporting and encouraging Indigenous community participation in the energy sector through business partnerships and job creation as a driver for sustainable economic development.

The agreement-in-principle demonstrates the goodwill envisioned by the Political Accord, signed between the Chiefs of Ontario and the Government of Ontario in August 2015, to promote stronger economic relations and is one of many steps on Ontario’s journey of healing and reconciliation with Indigenous peoples.

Q. So what does this deal mean for First Nations?

If ratified, a new investment fund collectively owned by First Nations would be able to buy shares through a loan from the Province at \$18 per share, which is above the Province's book value for the shares.

The Province would also contribute up to \$45 million in cash to the First Nation investment fund over the next three years, depending on the level of First Nation participation, to provide additional seed capital for investment.

Q. Does this deal include Métis communities? If no, why not?

No, this deal does not include Métis communities.

The Métis Nation of Ontario has expressed an interest in a dialogue with the Province in relation to this offering. The Province has also indicated that it is prepared to engage in a dialogue with the Métis in relation to the broadened ownership of Hydro One.

This was described on pages 108 and 172 of the October 2015 Hydro One Supplemented PREP Prospectus.

Hydro One Brampton

Q. Who is involved? What is the status of the merger and sale?

The merger of Hydro One Brampton with PowerStream, Enersource and Horizon is moving forward following shareholder approvals.

The Municipal Councils for the Cities of Barrie, Markham, Vaughan, Mississauga, Hamilton and St. Catharines have all voted to proceed with the merger. The Province has now executed a Share Purchase Agreement with PowerStream Inc., Enersource Hydro Mississauga Inc., and Horizon Utilities Corporation (collectively the Purchasers).

The sale and merger are subject to certain closing conditions of the Share Purchase Agreement, including OEB approval anticipated to occur in late 2016/early 2017.

OEB approval is based on the "no harm" test, requiring the OEB to ensure that the transaction would not have an adverse effect relative to the status quo of each of the Applicants and their customers in keeping with the Board's objectives. An application was filed by the Applicants in April 2016. A public hearing will be held in September, and the final Decision is expected by the end of the year.

Q. Why has the government decided to do this with Hydro One Brampton?

The Province is moving forward with the Premier's Advisory Council on Government Assets recommendation to sell its interest in Hydro One Brampton to three other large utilities – PowerStream, Enersource and Horizon. The Council recommended using Hydro One Brampton as a catalyst for LDC consolidation in the Greater Toronto and Hamilton Area (GTHA), thereby strengthening competition in the electricity distribution sector.

The merger of these three utilities with Hydro One Brampton will create the largest urban electricity distributor in Ontario. The merged entity is expecting to deliver efficiencies and economies of scale while continuing to provide safe, reliable and affordable electricity.

Q. How much will you make? What is happening to the money made?

The purchasers have agreed to pay \$607 million for Hydro One Brampton Networks Inc., subject to post-closing adjustments.

Ontario will direct all net revenue gains from the province's sale into the Trillium Trust, which, in turn, will be used to fund infrastructure projects that will create jobs and strengthen the economy.

Electricity Prices

Q. For over 100 years Ontario's reliable and affordable power helped build up this province. Now, Ontario residents are paying way more than our neighbours for electricity – and Ontario's manufacturing sector has been destroyed. Why do you continue to implement your expensive energy policies?

We've introduced a number of programs and have taken a number of steps to reduce ratepayer costs:

- Introducing the concept of planned flexibility, or planning the electricity system for a wide range of possibilities, but only committing resources as needs become clearer.
- Introducing wind dispatch to save ratepayers money through more efficient operation of the electricity system and changes to related IESO wind contracts.
- Renegotiating the Green Energy Investment Agreement with Samsung, reducing contract costs by \$3.7 billion
- Deferring the construction of two new nuclear reactors at Darlington Nuclear Generating Station, avoiding an estimated \$15 billion in new construction costs.
- The updated Bruce refurbishment agreement has achieved \$1.7 billion in savings for electricity customers when compared to the forecast in the 2013 LTEP, including deferring the first Bruce nuclear unit refurbishment outage to 2020 (instead of commencing in 2016, as envisaged in 2013 LTEP), to maximize value of the Bruce units. This means a reduction in forecast household electricity bills by about \$66 each year over the next decade.
- Potential ongoing operation of the Pickering Generating Station up to 2024 would save ratepayers as much as \$600 million.
- As a result of lower prices and revised procurement schedules, the first round of Large Renewable Procurement (LRP I) costs were approximately \$1.5 billion lower than the 2013 LTEP forecast. This will save the typical residential electricity consumer an average of approximately \$0.56 per month on their electricity bill, relative to previous forecasts.

- Suspending the second round of the LRP process (LRP II) process and the Energy-from-Waste Standard Offer Program is expected to remove up to \$3.8 billion in costs relative to the LTEP 2013 forecast, meaning the typical residential electricity consumer would avoid an average of approximately \$2.45 on their electricity bill.

The Ontario Rebate for Electricity Consumers Act, 2016 will provide an eight per cent (8%) rebate for consumers eligible for the Regulated Price Plan. It will benefit an estimated 5 million families, farms and small businesses, with an average savings of about \$130 annually or \$11 each month.

This comes into effect on January 1, 2017.

The legislation is one part of a comprehensive package of reforms that will provide benefits to all Ontario electricity consumers.

The second part of this package is for rural customers, who have been especially affected by increasing electricity distribution costs. We are updating the Rural or Remote Rate Protection, providing an additional \$110 million in support.

This represents significant rate relief for approximately 330,000 eligible rural electricity consumers, decreasing total electricity bills by an average of \$540 a year or \$45 each month.

As part of our comprehensive package, Ontario is proposing to expand the Industrial Conservation Initiative (ICI) program, opening it up to more than one thousand newly eligible customers with monthly peak demand greater than one megawatt, down from the 3 MW threshold. In addition, sector restrictions would be removed and smaller institutional and commercial businesses would be eligible to participate.

Expanding participation in the ICI program would reduce electricity bills for new ICI participants who are able to reduce their electricity demand during peak demand periods.

The Ministry of energy is proposing to recycle proceeds from Ontario's cap and trade program to offset the impact of the program on industrial and commercial electricity consumers to keep rates affordable.

On August 25, 2016, the Financial Accountability Officer (FAO) released a report indicating that home energy costs in Ontario are lower than many other Canadian provinces, including Atlantic Canada and Alberta. The report also concluded that from 2010 to 2014, Ontario experienced average increases in home energy costs relative to residents of other provinces.

Q. Ontario businesses have repeatedly expressed concerns over the rising costs of electricity, some have even said they will have to close or leave Ontario. How do you respond to this?

As part of our comprehensive package, Ontario is proposing to expand the ICI program, opening it up to more than one thousand newly eligible customers with monthly peak demand greater than one megawatt, down from the current 3 MW threshold. In addition, sector restrictions would be removed and smaller institutional and commercial businesses would be eligible to participate.

The ICI provides a strong incentive for large electricity consumers to reduce their electricity consumption during peak hours to reduce their bills by up to one-third. When these consumers shift their consumption, they reduce the province's peak demand, which means the ICI has the added benefit of deferring the need to build peaking generation.

Up until now, the ICI eligibility requirements included that consumers needed to have monthly demand exceeding three megawatts (MW). And they have made a difference. Last year, the 300 ICI participants collectively reduced Ontario's peak demand by an estimated 1,000 MW.

Expanding participation in the ICI program would:

- Reduce electricity bills for new ICI participants who are able to reduce their electricity demand during peak demand periods, and
- Reduce cost pressures on the electricity system by empowering more consumers to lower their electricity demand during peak periods.

The Ministry of Energy is proposing to recycle proceeds from Ontario's cap and trade program to offset the impact of the program on industrial and commercial electricity consumers to keep rates affordable.

Under the proposed electricity price mitigation strategy, proceeds would be recycled to commercial and industrial consumers to ensure that cap and trade would result in a benefit to the average industrial and commercial customers

Measures in place to mitigate industrial electricity prices include:

- Industrial Conservation Initiative (ICI);
- Northern Industrial Electricity Rate Program (NIERP);
- Industrial Accelerator Program (IAP);
- SaveONenergy for Business Program; and
- Demand Response.

ICI lowers costs for eligible large electricity consumers (i.e., those with monthly peak demand exceeding 3 MW) that reduce consumption during peak periods. ICI consumers reduce their electricity rates by 25% on average.

Ontario is proposing to expand the ICI program to include more than one thousand (1000) newly eligible customers with monthly peak demand greater than one megawatt, down from the current threshold of three megawatts. In addition, sector restrictions would be removed and smaller institutional and commercial businesses would be eligible to participate.

Expanding participation in the ICI program would:

- Reduce cost pressures on the electricity system by empowering more consumers to lower their electricity demand during peak periods; and
- Reduce electricity bills for new ICI participants who are able to reduce their electricity demand during peak demand periods.

Newly eligible customers would have the opportunity to opt-in to the ICI program.

The Industrial Electricity Incentive (IEI) offers reduced electricity rates for companies starting or expanding operations in Ontario. The Independent Electricity System Operator (IESO) has awarded 22 contracts to energy-intensive companies across the province through the program.

Participants in the Northern Industrial Electricity Rate Program (NIERP) receive a rebate of two cents per kilowatt hour. On average, industrial electricity prices can be reduced by over 20% through the program.

In 2015, the Ontario government announced the commitment to an ongoing NIERP beyond March 2016.

IAP assists eligible transmission-connected companies to fast track capital investment in major energy conservation projects. The program provides financial incentives to encourage investment in innovative process changes and equipment retrofits to reduce electricity consumption on the provincial system and to help companies become more competitive by positively impacting their bottom line.

saveONenergy for Business electricity conservation program offered by local distribution companies, with support from the IESO, – offers distribution-connected customers financial incentives for audits, retrofits and process and systems improvements to help businesses better manage their electricity use.

In addition, the Budget Measures Act 2015 sets a fixed date for removing the DRC from all other electricity users' bills (commercial, industrial and other electricity users) on April 1, 2018, nine months earlier than previously estimated.

Ontario's industrial electricity rates remain competitive with jurisdictions across North America.

Ontario's industrial electricity prices are lower than the U.S. average as reported by the U.S. Energy Information Administration (EIA).

In 2015, large customers paid an average of \$84/MWh according to the most recent Ontario Energy Report.

Q. What is the Global Adjustment?

The cost of electricity is a blend of the wholesale market price known as the Hourly Ontario Energy Price (HOEP) and Global Adjustment (GA).

The vast majority of electricity generators in Ontario are contracted by the Independent Electricity System Operator (IESO) or regulated by the Ontario Energy Board (OEB). These generators are generally paid fixed prices for their output or have contractual minimum revenue requirements to cover their fixed costs.

Wholesale market prices are frequently insufficient to pay for these fixed prices and costs so the excess is collected through the GA. The cost of Ontario's conservation programs are also

recovered via the GA. GA does fluctuate from month to month; however, the all-in commodity price is reasonably stable over time.

GA is calculated based on the difference between total costs related to generating electricity and market revenues from HOEP. These costs must be recovered and GA is the mechanism that does so.

GA reflects costs associated with contracted and regulated generation such as nuclear, natural gas and renewables, as well as the cost of conservation programs.

GA is a cost recovery mechanism as well as a charge paid by all electricity consumers in Ontario (i.e., it is included in the "Electricity" line on bills for consumers that participate in the OEB's Regulated Price Plan).

Ontario Electricity Support Program (and end of Ontario Clean Energy Benefit)

Q. Why do ratepayers have to pay to fund the Ontario Electricity Support Program (OESP)? The uptake was slow and applying to it was difficult, so will you admit this program has been a failure?

We are encouraged by the response OESP has received so far. Since launching the OESP in early November, consumers have submitted more than 230,000 applications to the Ontario Energy Board (OEB).

As of October 12, 2016, more than 145,000 of these applications have been approved to receive OESP.

Q. Why do ratepayers have to pay to fund the OESP, especially if they do not benefit and have lost the 10% Ontario Clean Energy Benefit (OCEB) discount? How is this acceptable?

This is a rate relief program funded by all ratepayers for low-income ratepayers who have applied and meet the eligibility requirements.

For many low-income Ontarians, paying their electricity bill can be a challenge. Electricity represents a significantly greater share of their monthly expenses. For households with an annual income of \$20,000 a typical electricity bill could be 10 per cent or more of their income.

The cost to ratepayers is \$0.0011 per kilowatt hour of electricity used for all ratepayers. For the typical residential customer, the amount is less than \$1 per month.

Q. What is the government doing to lower electricity prices if people don't qualify for any lower income programs?

Our government continues to work to ensure a clean, reliable and affordable electricity system for all Ontarians.

The government removed the Debt Retirement Charge (DRC) from residential electricity bills as of January 1, 2016. This will save a typical residential electricity ratepayer who consumes 750 kilowatt hours (kWh) per month about \$65 per year.

Ontario also has a number of programs in place that help consumers manage rising electricity prices, including:

- Northern Ontario Energy Credit;
- Ontario Energy and Property Tax Credit; and
- saveONenergy for Home electricity conservation program.

Q. How much has the government spent on the development of the OESP program?

Costs associated with the implementation of the OESP will be funded through the ratepayers, and will have no impact on the government's fiscal plan.

Nearly \$12 million was spent on program design, implementation and advertising for the Ontario Electricity Support Program.

Q. How many customers have successfully signed up for OESP? Are they already receiving their payments?

As of October 12, 2016, over 145,000 applications had been approved for the Ontario Electricity Support Program (OESP) by the Ontario Energy Board (OEB).

Q. Many of our residents couldn't apply to the program before January 1st because of rollout issues. Will the program be retroactive to January 1st so that applicants can receive the credits for the months they missed?

The Ontario Electricity Support Program (OESP) was not designed to allow for this.

While retroactive payments are not possible, applicants can receive the credit for the full duration of eligibility starting on the date that the credit is first applied to the bill.

For the initial intake period, the Ontario Energy Board (OEB) has randomly staggered eligibility durations to avoid mass re-application every two years. The first eligibility period for an applicant may be between 24 and 36 months and will be communicated through their notice of eligibility. In addition, some recipients like seniors may qualify for the extended program eligibility period of five years.

Smart Meters

Q. In January, the media reported that Hydro One admitted that 36,000 of the smart meters it installed are useless and are reading the meters manually again. How much longer will we be paying for Hydro One's mistakes? How much money has been spent on these useless meters?

In some parts of Hydro One's service territory where the communications network is not strong enough to consistently transmit information, the utility has moved certain customers to manual meter reads where necessary to reduce estimated bills and ensure more accuracy.

This process of transitioning customers whose billing accuracy could not be guaranteed from Time-Of-Use (TOU) back to two-tiered rates began in January 2016 and has been completed.

Q. Will you admit that the smart meter program has been a costly failure and unfairly burdened residents of rural Ontario?

We firmly believe that smart meters are rewarding consumers who shift their consumption to off-peak, are helping LDCs manage their systems more efficiently and enabling our transition to a smarter grid, all of which provides environmental and system benefits.

Smart meters are the base technology for a modern grid which enables us to use emerging technologies and applications such as electric vehicles, electricity storage and other innovations that can make Ontario homes smarter and more energy efficient.

Surplus Generation / Exports / Imports

Q. Ontario is exporting electricity at a much cheaper rate than Ontario residents pay for power. Why is that?

Ontario trades electricity with our neighbouring jurisdictions in Canada and the USA as part of the regular operation of the electricity system. Electricity trading provides additional grid reliability and is consistent with our goal of providing a clean, reliable, and affordable electricity system for all Ontarians.

Ontario exports to our neighbours when we have available power and we are able to rely on imports of power from our neighbours when it is cost-effective. Electricity exports reflect the prevailing market price and are scheduled when it is economic for both Ontario and the associated importing jurisdiction.

In addition, electricity exports create revenue for Ontario's generators, which helps to recoup some of the costs of maintaining their facilities. These are costs that would otherwise be borne by Ontario ratepayers who are paying to ensure that Ontario always has sufficient generating capacity to meet its peak demand.

The Independent Electricity System Operator (IESO) estimates that the benefit to Ontario from electricity trading in 2014 was approximately \$320 million. This amount represents the revenue received by the Province for off-peak electricity exports, as well as revenue received from transmission tariffs for all exports.

Q. Why does the government continue to sign power deals when we have a surplus of power?

While the province is currently in a strong supply position, we will begin taking nuclear units out of service for refurbishment beginning in 2016 as per the 2013 Long-Term Energy Plan (2013 LTEP). There will be a much smaller surplus when refurbishment starts.

- Ontario is committed to investing in a clean, modern and reliable electricity system that reduces greenhouse gas (GHG) emissions and provides cleaner air for this and future generations of Ontarians.
- Between 2005 and 2015, the share of renewable energy in Ontario's electricity supply mix has grown from 26 percent to 40 percent.

- Ontario now has approximately 18,000 MW of solar, wind, bioenergy and hydroelectric capacity contracted or online. Ontario has the most wind and solar photovoltaic (PV) capacity in operation of any jurisdiction in Canada.

The diversity of the current supply mix also insulates Ontario against sudden changes in cost or availability of any one source, and is one of the greatest strengths of Ontario's electricity system.

Nuclear Refurbishment at Darlington Generating Station

Q. Given all the clean hydropower we can import from our neighbours, why do we need to refurbish Darlington and what assurance can you provide that it will be completed on time and on budget?

The government is committed to a diverse energy portfolio that includes nuclear power. It is a reliable, cost-effective source of electricity that does not produce greenhouse gases and will continue to be the backbone of our electricity system.

On October 15, 2016, - consistent with the 2013 LTEP - Ontario Power Generation (OPG) commenced refurbishment of the first nuclear unit at the Darlington Generating Station (i.e., Unit 2) as part of the government's plan to supply reliable emission-free power for the next 40 years.

Refurbishment and continued operation of Darlington up to 2055 will contribute a total of \$90 billion to Ontario's GDP and increase employment by an average of 14,200 jobs annually, including over 2,600 jobs onsite at Darlington. Also, a report by an independent third party highlighted that Darlington refurbishment will help reduce Ontario's greenhouse gas (GHG) emissions to the equivalent of taking two million cars off the road each year. The refurbishment of the four units is expected to involve about 30 million hours of work over 10 years and will support Ontario's globally recognized CANDU nuclear supply chain, with more than 180 companies employing thousands of highly skilled workers.

The budget for the project is \$12.8 billion, about \$1.2 billion less than originally projected by OPG, and all four units are scheduled for completion by 2026.

In order to minimize risk to ratepayers and government, refurbishment of Ontario's nuclear assets will be guided by the principles set out in the 2013 LTEP such as minimizing commercial risk, entrenching

- Appropriate and realistic off-ramps and scoping, and requiring
- OPG to hold its contractors accountable to the nuclear refurbishment schedule and price.

OPG has taken a number of steps to ensure success and minimize risk to ratepayers including detailed planning which commenced in 2010 and concluded at the end of 2015, incorporating lessons learned from other major projects, and building a state-of-the-art full-size reactor mock-up to test specialized tools and train workers.

Furthermore, all costs for the Darlington refurbishment will be subject to review and approval by the Ontario Energy Board (OEB) through a public and transparent process to ensure they are prudently incurred.

To best protect Ontario ratepayers and ensure OPG delivers refurbishment on-time and on-budget, the government has established off-ramps that require OPG to obtain government approval prior to proceeding with each of the remaining unit refurbishments.

In addition, the government retained an Independent Oversight Advisor to provide regular updates on the progress of the Darlington Refurbishment project during the planning phase. The Government will continue to ensure effective robust oversight of the project in accordance with the 2013 LTEP principles and has retained an external advisor to provide oversight during the execution phase.

Q. How much has the Darlington Refurbishment cost so far?

Life-to-date capital expenditures for Darlington were \$2,612 million as of June 30, 2016.

The approved project budget for the four-unit refurbishment is \$12.8 billion.

Nuclear Refurbishment at Bruce Generating Station

Q. Can you discuss the government's decision to proceed with nuclear refurbishment? What are the advantages?

Nuclear power currently provides around 60% of the electricity used by Ontarians and the refurbishment of units at the Bruce Nuclear Generating Station will help nuclear continue to be the single largest generation source in Ontario.

Ontario's nuclear reactors are designed to provide electricity generation for approximately 25 – 30 years. Refurbishment and replacement of key reactor and station components is necessary to allow for continued operation for approximately 30 additional years.

Refurbished nuclear is expected to be one of the most cost-effective generation resources available to Ontario for meeting base load requirements.

Existing stations are located in supportive communities with access to high-voltage transmission.

Nuclear generation produces no greenhouse gas emissions.

During refurbishment, Bruce Power will be subject to strict oversight to ensure safety, reliable supply and value for ratepayers.

Q. Why do we need Bruce and how are you going to coordinate Darlington and Bruce to maximize efficiencies, meet deadlines and mitigate ratepayer costs?

The government is committed to nuclear power. It will continue to be the backbone of our electricity system. It is a reliable, cost-effective source of electricity and its generation does not produce greenhouse gases.

The nuclear units at Bruce Power contribute nearly half of Ontario's round-the-clock power and like the nuclear units at Darlington, will also undergo refurbishment starting in the near future.

The 2013 LTEP outlined the importance of collaboration between the Province's two nuclear operators in order to find ratepayer savings.

OPG and Bruce Power have a long-standing relationship as operators of CANDU reactors sharing best practises and information through a range of industry forums. Both organizations, historically and since the release of the 2013 LTEP, have been collaborating in a range of areas that allow both operators collectively to leverage economies of scale to continue to position nuclear power as a low-cost provider of electricity to ratepayers.

Bruce Power is working closely with OPG to share information and lessons learned from previous refurbishments. In November 2015, OPG and Bruce Power signed a Memorandum of Understanding (MOU) on Collaboration during Ontario's Refurbishment Period. This MOU is focused on improving both companies' refurbishment programs.

Q. How much will the power cost?

The initial price under the amended BPRIA was set at \$65.73/MWh, beginning January 1, 2016. In 2020, Bruce Power will begin refurbishment. The initial price will increase as Bruce Power invests capital in each unit's refurbishment. The average price over the life of the contract is estimated to be \$77/MWh, or 7.7 cents per kilowatt hour (kWh).

The price for Bruce Power's generation will be within the range assumed in the 2013 LTEP for refurbished nuclear energy and lower than the average price of electricity generation in Ontario, which in 2015 was \$92/MWh.

The pricing structure in the amended BPRIA is more flexible than in the existing BPRIA and is subject to change based on factors such as Bruce Power's level of investment.

Note that Bruce Power takes all of the execution risk on the refurbishments and the ongoing operational risk of the units. The government also has the opportunity to exercise off-ramps which would change Bruce Power's expected investment in the project and lead to price adjustments.

Pickering Generating Station Operations

Q. Does the province have a plan for the Pickering Generating Station?

Pickering plays an important role in meeting our energy needs.

In 2015, the Pickering Station provided about 14% of Ontario's power and achieved its highest ever level of reliability.

2013 LTEP assumed that Pickering would operate until 2020 before being shut down. Since then, OPG has undertaken technical analysis and assessments on the condition of key equipment and expressed confidence in Pickering's ability to safely operate to 2024.

In January 2016, the Province approved a plan for OPG to complete confirmatory work and seek the necessary regulatory approvals to enable continued operation of the Pickering Generating Station beyond 2020 up to 2024.

OPG will engage with the Canadian Nuclear Safety Commission and the Ontario Energy Board (OEB) to seek approvals required for the continued operation of Pickering Generating Station.

OPG will seek final government approval to proceed with ongoing Pickering operation after receiving all necessary regulatory approvals.

Ongoing operation of Pickering up to 2024 would ensure the province has a reliable source of emission-free replacement baseload electricity during the Darlington Generating Station and initial Bruce Generating Station refurbishments.

If asked about costs:

OPG expects to spend an additional \$307 million between 2016 and 2020 in order to enable ongoing Pickering operation up to 2024. The estimated cost for the 62TWh of additional power from Pickering ongoing operation is about \$65/MWh, significantly lower than the average price of electricity generation in Ontario, which in 2015 was \$92/MWh.

Q. Why did the government decide to explore the ongoing operation of the Pickering station?

Ongoing operation of Pickering up to 2024 would ensure that the province has a reliable source of emission-free replacement baseload electricity during the Darlington and initial Bruce refurbishments.

Ongoing operation would also protect 4,500 jobs across Durham region, save the electricity system up to \$600 million and reduce greenhouse gas (GHG) emissions by at least eight million tonnes.

Q. Is Pickering safe? Wasn't OPG fined over \$30,000 by the Canadian Nuclear Safety Commission (CNSC) in January of this year for failing to comply with licensing conditions?

This was a procedural matter which has no bearing on the safety of the plant or the public. For security reasons, OPG cannot talk about the events in question, but at no point was the safety of the plant ever compromised.

The alleged violations raise notification protocol issues about security measures OPG had in place, not safety violations. All OPG plants continue to operate to the highest security standards.

Ontario Power Generation's Deep Geological Repository (DGR)

Q. A number of environmental organizations have expressed opposition to OPG's proposed Deep Geologic Repository for Low and Intermediate Level Nuclear waste. Does your government still support the project? How do you respond to specific concerns about the risks of storing nuclear waste so close to Lake Huron, one of the largest bodies of surface fresh water in the world and a source of drinking water to millions of Canadians and Americans?

Ontario Power Generation (OPG) has been storing nuclear waste in Ontario safely for over 40 years. Ontario has a strong interest in seeing that nuclear waste continues to be managed in a safe and responsible manner.

OPG's deep geological repository (DGR) proposal for low and intermediate level waste (LILW) has been reviewed by a panel, appointed by the federal nuclear regulator – the Canadian Nuclear Safety Commission (CNSC). This is the most comprehensive form of Environmental Assessment under Canadian legislation.

On May 6, 2015, the Joint Review Panel (JRP) recommended that the former federal Environment Minister approve the license for construction of the LILW DGR.

On February 18, 2016, the federal Minister of Environment asked OPG to conduct and submit additional studies on the proposed DGR before a decision on the JRP's recommendation is made.

The Federal Minister has requested the following studies:

- A study that details the environmental effects of alternative locations for the LILW DGR that are technically and economically feasible;
- Analysis of the cumulative environmental effects of the LILW DGR in light of assessments undertaken by the Nuclear Waste Management Organization (NWMO); and
- Providing an updated list of environmental mitigation commitments.

Renewable Energy

Q. Communities continue to express concerns about wind projects. What is the government doing to address these concerns?

Our government's priority is to build clean, reliable and affordable energy in a way that gives municipalities a stronger voice in renewable energy project development.

In 2014, we directed the Independent Electricity System Operator (IESO) to develop a new competitive procurement process for large renewable projects to ensure local needs and considerations are taken into account. The resulting process, known as Large Renewable Procurement (LRP), required developers to engage with municipalities before a proposal could be considered for an electricity contract.

Engagement with local communities, municipalities and Indigenous communities was central to the first LRP process.

All proposed projects had to satisfy mandatory engagement requirements, including completing a community engagement plan, developing a project website, holding at least one public meeting and initiating one meeting with municipal representatives.

With the first LRP process, our goal was to provide municipalities with a stronger role going forward, but not to provide a veto. We know that when municipalities play an active role in the renewable energy development process, they help to ensure that renewable energy projects meet local needs.

The results of the first LRP process were announced by the IESO in March 2016. In total, 16 projects received contracts, totalling almost 455 MW of new renewable generation capacity. Of the 16 LRP I projects that received contracts, more than 80 percent include participation from one or more Indigenous communities, including five projects with more than 50 percent First Nation participation. In addition, 75 percent of successful LRP I proposals received support from local municipalities and more than 60 percent had support from abutting landowners.

It is important to note that renewable energy developers need to meet a number of contractual requirements, as well as environmental and permitting approvals, before they can begin construction on their projects. These approvals include additional community engagement requirements and provide further opportunities for communities to express any concerns they may have about the proposed projects.

In particular, large renewable energy projects are subject to the Renewable Energy Approval (REA) process, which requires developers to consult with the public, municipalities and Indigenous communities and includes clear requirements to protect human health and the natural environment.

The REA process is administered by the Ministry of the Environment and Climate Change (MOECC), and has specific requirements that must be met by developers in order to ensure protection of Ontario residents. These requirements can vary depending on the type of renewable energy project, but may include:

- stringent noise limits that are based on a 40 decibel (dB) noise guideline, as recommended by the World Health Organization to be protective of human health;
- minimum noise setbacks for wind projects – at least 550 metres from neighbouring homes and other buildings;
- setbacks from property lines, public roads and railways and some natural heritage features; and
- addressing potential negative effects on birds and bats and their habitats during the planning, construction and operation of projects.

In order to facilitate active municipal involvement in the renewable energy development process, in 2015 the Ministry released an updated guide for municipalities that, among other things, describes how renewable energy projects are developed in Ontario and provides an overview of the regulatory approval processes involved in project development. This guide is available on the Ministry of Energy's website.

In addition, as confirmed by the IESO in the Ontario Planning Outlook (OPO), Ontario has a strong supply of reliable power for the foreseeable future and there is no need to procure a large amount of additional power at this time. As a result, on September 27, 2016, Ontario suspended the second round of its LRP process and the Energy-from-Waste Standard Offer Program.

This decision is expected to remove up to \$3.8 billion in electricity system costs relative to Ontario's 2013 Long-Term Energy Plan (LTEP) forecast, meaning the typical residential electricity consumer would avoid an average of approximately \$2.45 on their electricity bill. We are also committed to working with local communities, municipalities and Indigenous communities to ensure there is meaningful involvement in electricity system planning while maintaining the reliability of the electricity system.

Q. What do you say to the citizens of Community X, who made their opposition to Project X known? Why don't their concerns matter to you?

We listened to municipal concerns about the way larger Feed-in Tariff projects were being procured, and responded to those concerns with the competitive LRP process.

The first phase of LRP (LRP I) was launched in 2014 and was designed to provide municipalities, communities and the public with a stronger voice and additional opportunities to participate in the development of large renewable energy projects.

On March 10, 2016 the IESO released a list of 16 contracts that were offered under LRP I. These contract offers represent almost 455 MW of energy generation capacity, which will contribute to the province's renewable energy targets.

The IESO indicates that for LRP I, local support – either from the municipality, a First Nation and/or Métis community and/or from landowners abutting the project – was a factor in project evaluation. However, municipality and community support was not a mandatory requirement for a project to be successful. One of the goals of the LRP process was to provide municipalities with a stronger role going forward, but not to provide a veto.

It is important to acknowledge that there were successful LRP I projects that did not have the formal support of the municipality where they are going to be located. It is vital that project developers continue to actively engage with municipalities about these projects and continue to seek their support. We know that when municipalities play an active role in the renewable energy development process, they help to ensure that projects meet community needs.

In addition, successful LRP I proponents will have to obtain all required licenses and approvals, such as a Renewable Energy Approval (REA) or an Environmental Assessment before they can start construction on their projects. The environmental approval processes include additional community engagement requirements, and provide further opportunities for communities to express any concerns that they may have about the proposed project.

Q. How many of these contracts for large renewable projects are being offered in municipalities and communities that support them?

Of the 16 contracted LRP I projects, more than 80 per cent include participation from one or more First Nation communities, including five projects with more than 50 per cent First Nation participation.

75 per cent of the successful LRP I proposals received support from local municipalities and more than 60 per cent of successful proposals had support from at least 75 per cent of abutting landowners.

The full list of contract offers, including project locations and contact information, can be viewed on the IESO's website: www.ieso.ca/Documents/generation-procurement/lrp/lrp-1-final/LRP-I-RFP-Selected-Proponents-List.pdf.

Q. How will the suspension of LRP II impact green energy jobs in Ontario? What about manufacturers in the Samsung agreement?

Ontario is a global leader in clean energy development. We have attracted both Ontario-based and international companies to produce renewable energy in the province.

Ontario firms are now poised to export their products and expertise as other jurisdictions accelerate their efforts to procure clean energy technologies following the 2015 United Nations Climate Change Conference in Paris (COP21).

The Ministry is working with industry partners to develop and support trade initiatives that will strengthen international relationships and produce new business opportunities. This way, Ontario can leverage its growing energy innovation expertise for the benefit of Ontarians.

Ontario is also continuing to procure further renewable energy generation capacity to meet the targets established in the 2013 Long-Term Energy Plan, including:

- The FIT program for projects larger than 10 kW and generally up to 500 kW; and
- The microFIT program for projects 10 kW and smaller.

The government is also in the midst of developing an updated and streamlined net metering program, which will support customer choice in generating clean, renewable energy; align with value to the electricity system; and enable innovative technologies and customer-utility relationships.

Q. How will the suspension of LRP II affect the LTEP targets for renewable power?

The Ministry of Energy will launch LTEP consultations later this fall, which will provide an opportunity for a province-wide discussion on future energy demand and the need to meet that demand with clean, reliable, affordable supply. The next LTEP is scheduled to be released in Spring 2017.

Our government recognizes the sound, prudent long-term energy planning is essential to a clean, reliable and affordable energy future.

Ontario has about 18,000 MW of wind, solar, bioenergy and waterpower renewable generation contracted or online.

At the end of 2015, Ontario's installed wind capacity represented almost 40% of all installed wind capacity in Canada. Ontario is home to more than 99% of all installed solar PV capacity in Canada.

As confirmed in the Ontario Planning Outlook (OPO), Ontario has one of the cleanest and most reliable grids in North America. We also have one of the most reliable grids, one that is well-positioned to meet provincial needs until the mid-2020s and there is no need to procure a large amount of additional electricity supply at this time.

Q. Why is the government bringing so much expensive green power online?

Ontario is committed to investing in a clean, modern and reliable electricity system that reduces greenhouse gas (GHG) emissions and provides cleaner air for this and future generations of Ontarians.

- Ontario has approximately 15,900 MW of wind, solar, bioenergy and hydroelectricity energy online and approximately 2,300 MW of additional contracted renewable capacity that is yet to come online.
- Between 2005 and 2015, the share of renewable energy in Ontario's electricity supply mix has grown from 26 percent to 40 percent.

We have fulfilled our commitment to replace coal-fired generation with cleaner sources of energy, which not only benefits our environment but also the health of Ontarians.

The diversity of the current supply mix also insulates Ontario against sudden changes in cost or availability of any one source, and is one of the greatest strengths of Ontario's electricity system.

Each of the supply mix elements, including waterpower, nuclear, natural gas, non-hydro renewables, conservation and clean imports, plays a unique role in delivering a reliable and cost-effective source of energy to Ontarians.

Feed-In Tariff (FIT) prices have been reduced by at least \$1.9 billion through annual price reviews, and as a result of lower prices and revised procurement schedules, LRP I costs were approximately \$1.5 billion lower than the 2013 LTEP forecast. The suspension of the LRP II process and the Energy-from-Waste Program is expected to save up to \$3.8 billion in costs, equivalent to a \$2.45 per month reduction on a typical residential electricity bill.

Regional Planning and Siting

Q. What is the government doing to ensure that regional needs are considered in the province's Long Term Energy Plan?

Regional planning is the link between provincial and local electricity planning. It overlaps with and supports bulk system planning and distribution level planning. Regional needs and interests identified through the regional planning are assessed through the regional planning process to ensure all of Ontario's 21 electricity regions have access to the electricity they require over the short, medium, and long terms (1-5, 5-10, 10-20+ years).

While regional planning has been happening for some time, in 2013 the Ontario Energy Board (OEB) made amendments to the Transmission and Distribution System Codes and the former OPA's license to adopt a formalized process. The process ensures that transmitters, distributors, and the IESO work together to identify solutions to regional electricity needs.

The formalized process is complemented by a joint former OPA/IESO report, *Engaging Local Communities in Ontario's Electricity Planning Continuum*, which guides improved community engagement and infrastructure siting practices..

The first cycle of planning is underway or complete in all 21 electricity regions in Ontario. Electricity needs review has now been completed in all regions, and planning completed in 17, with the remaining four to be finalized by 2017. 13 sub-regional Integrated Regional Resource Plans (IRRPs) have been released to date. Electricity needs review will be triggered again in 5 year cycles or sooner, if needs arise.

Q. A new line to Pickle Lake was first identified as a priority in the 2010 LTEP, and then again in 2013. Why are you just doing this now? Why has this taken so long?

Ontario is working diligently towards delivering on its 2013 LTEP commitment to connect remote First Nation communities in Northwestern Ontario to the electricity grid. The construction of a transmission line to Pickle Lake is one part of a larger undertaking, as this project will enable the connection of remote First Nations communities to Ontario's electricity grid.

New electricity transmission projects are proponent driven in Ontario and timelines are largely driven by forces outside of the Ministry's control. These projects generally have a long lead time, taking into account planning, a variety of external approvals required and a thorough consultation process.

Once possible transmission solutions are identified, ENERGY works with various stakeholders to gather input. On this particular project, for example, extensive consultation meetings took place to address concerns and challenges.

Q. Twenty-one of Ontario's 25 remote communities have been identified as priority projects in the 2013 LTEP. Sixteen are being connected with this project. How were these communities chosen?

The Independent Electricity System Operator's (IESO) analysis indicated that there is a strong economic case to grid-connect 21 remote First Nation communities. A draft Remote Community Connection Report was issued by the IESO in 2014, which contained details of this analysis.

Watay Power currently has 16 of these 21 communities in its partnership. Ontario's priority remains the connection of all 21 remote First Nation communities that are economic to connect, as identified in Ontario's 2013 Long-Term Energy Plan (2013 LTEP).

Q. What are the costs associated with this project? Will ratepayers be on the hook?

Provincial ratepayers currently subsidize costly diesel generation in remote communities. The Ministry of Energy estimates that the connection of these communities to the grid will result in cost savings over the life of the project.

Ontario continues to work with the federal government on cost sharing arrangements for the project to ensure fair and equitable funding.

Ontario has also made regulatory amendments that will allow for a portion of the costs of the remote connection project to be recovered from provincial ratepayers.

Q. The government has been criticized for not holding consultations with Indigenous communities about issues which directly affect them. Did consultations take place?

The Ministry of Energy held consultations on the proposed policy supports for the remote connection project in Sioux Lookout, Thunder Bay, Dryden, Toronto and Mishkeegogamang FN in January and February of 2016.

Consultations took place with potentially affected Indigenous communities on actions that could be taken to reduce regulatory barriers and move the project forward in a timely and efficient manner, including identifying a transmitter.

Q. What are you going to do to reduce diesel use in the four communities that are not economic to connect to the grid?

Reducing diesel-reliance in remote Ontario First Nation communities is a high priority for this government, both to improve social and economic outcomes in communities, and to reduce greenhouse gas emissions.

Ontario is supporting the four communities that are not economic to connect to the grid by providing support for innovative projects that will support health and wellbeing and economic growth by reducing reliance on diesel fuel and enabling stable, predictable sources of power.

Ontario is supporting Whitesand First Nation as they pursue a 3.6 MW biomass generation facility and wood pellet plant. The project will have a number of benefits including local job creation and reduced diesel use leading to reduced greenhouse gas emissions.

In August 2015, the Northern Ontario Heritage Fund Corporation (NOHFC) announced \$2.5 million in funding to support Fort Severn in developing, with Canadian Solar, a commercial-scale renewable energy micro-grid that will utilize storage, solar and wind technology.

Ontario is exploring options for supporting Gull Bay and Weenusk as they develop advanced renewable solar powered energy microgrids.

While we undertake this work with our remote First Nation communities, Ontario is also actively working with our provincial and territorial counterparts through the Pan Canadian Taskforce on Reducing Diesel in Remote Communities.

Conservation First

Q. Why are there no interim conservation targets in the 2013 LTTP?

Our long term conservation target of 30 TWh in 2032 and our goal to use demand response to meet 10% of peak demand by 2025 (approximately 2,400 MW) demonstrates a long-term commitment to conservation.

Ontario established a target of 7 TWh in 2020 to be achieved through conservation and energy efficiency programs delivered by local distribution companies under the Conservation First

Framework, to assist the province in achieving its long-term conservation target of 30 TWh in 2032.

The amount of conservation achieved each year can vary depending on several factors including the state of the economy, the demand for electricity, and the price of fuels.

We want to ensure we have flexibility in our conservation investments so we can meet changing system conditions over the 20-year planning period.

Q. Why is there no peak demand target?

The 2013 LTEP established a goal of aiming to use demand response to meet 10% of peak demand by 2025, equivalent to approximately 2,400 MW under forecast conditions.

Achieving this goal is supported by a number of demand response initiatives aimed at reducing peak demand, including time-of-use pricing, IESO's demand response auction, the Industrial Conservation Initiative and dispatchable customer loads under contract in the IESO administered market.

In December, 2015, the IESO held its first demand response auction. About 390 MW were procured for the summer commitment period (May 2016 to October 2016) and about 400 MW for the winter commitment period (November 2016 to April 2017).

Q. Why do we need energy conservation in a strong supply situation?

Electricity conservation and energy efficiency provide persisting, long lasting savings which decrease the demand for electricity over the long-term.

Conservation and energy efficiency are the cleanest and most cost-effective energy resource, providing multiple benefits to Ontarians:

- Helping families and businesses manage their energy bills and improve their home comfort and quality of life.
- Reducing strain on our electricity system and the need to build expensive energy infrastructure, mitigating upward pressure on electricity prices.
- Reducing greenhouse gas (GHG) emissions and air pollution, contributing to a cleaner future for our children and grandchildren.

Ontario has been working for several years to create a culture of conservation by encouraging individuals and businesses to use energy wisely and at the same time building sector knowledge and capacity to deliver conservation and energy efficiency programs.

Between 2005 and 2014, Ontarians conserved:

- 9.9 TWh of electricity, enough to power the cities of Ottawa and Windsor in 2014.
- 3,628 MW—equivalent to more than the peak demand of Mississauga, Brampton and Ottawa combined in 2014.

Conservation requires a long-term planning commitment and uninterrupted delivery to be effective.

Much like building new generation, you can't wait until the demand has materialized to start planning to meet it.

Conservation and energy efficiency are delivering electricity at a lower cost than any form of supply. Historically, for every \$1 invested in energy efficiency, Ontario has avoided about \$2 in costs to the electricity system.

Q. With the billions of dollars already invested in conservation what has been the impact on rate-payers?

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- Helping families and businesses manage their energy bills and improve their home comfort and quality of life.
- Reducing strain on our electricity system and the need to build expensive energy infrastructure, mitigating upward pressure on electricity prices.
- Reducing greenhouse gas (GHG) emissions and air pollution, contributing to a cleaner future for our children and grandchildren.

Ontarians are making progress in putting conservation first. Between 2005 and 2014, Ontarians conserved 9.9 TWh of electricity—enough to power the cities of Ottawa and Windsor in 2014.

Historically, for every \$1 invested in electricity conservation, Ontario has avoided about \$2 in costs to the electricity system.

Q. A recent report by the Fraser Institute found that the government's energy conservation programs are wasting public dollars and don't lower the cost of electricity. The report specifically challenges the government's claim that "between 2006 and 2011, investing \$2 billion in conservation allowed Ontario to avoid more than \$4 billion in new supply costs". How would you respond to the report's criticisms?

Conservation and energy efficiency provide persisting, long lasting savings which decrease the demand for electricity over the long term. Ontario has been working for over a decade to create a culture of conservation by encouraging individuals and businesses to use energy wisely and at the same time building sector knowledge and capacity to deliver conservation and energy efficiency programs.

The Independent Electricity System Operator (IESO), which is responsible for overseeing the delivery of electricity conservation programs in Ontario, uses industry-standard tests to screen conservation program proposals for cost-effectiveness, and to evaluate, measure and verify the associated electricity and peak demand savings.

With a few exceptions, such as programs for low-income households, all programs under the current framework are required to be cost-effective to receive approval to be delivered.

The Independent Electricity System Operator conducts rigorous independent third-party evaluations of the conservation and energy efficiency programs it funds to ensure the programs are meeting their goals.

The government intends to ensure that conservation will be considered before building new generation and transmission facilities, and will be the preferred choice wherever cost effective. Between 2005 and 2014, Ontarians conserved:

- 9.9 TWh of electricity, enough to power the cities of Ottawa and Windsor in 2014.
- 3,628 MW—equivalent to more than the peak demand of Mississauga, Brampton and Ottawa combined in 2014.

Historically, for every \$1 invested in electricity conservation, Ontario has avoided about \$2 in costs to the electricity system.

Q. Ontario has previously given LDCs conservation targets that they were unable to meet. What makes you think LDCs will be able to meet these new ones the government has set out? Are the targets unachievable?

Ontario established an aggressive but achievable long-term conservation target of 30 TWh in 2032.

Between 2011 and 2014 LDCs collectively exceeded the provincial electricity saving target, achieving 109 per cent of the target or 6,553 gigawatt-hours (GWh) of electricity savings, and achieved 70 per cent of the peak demand reduction target, generating 928 megawatts (MW) of demand reduction for the province.

Ontario's electric utilities are expected to achieve a combined 7 TWh of electricity savings in 2020 under the new Conservation First Framework to assist the province in achieving its long-term conservation target of 30 TWh in 2032.

Q. The government is planning to implement a required Home Energy Rating and Disclosure (HER&D) initiative. The ability to require HER&D has been available to the government since passage of the *Green Energy Act* (GEA) in 2009. Why is ENERGY exploring a HER&D initiative at this time?

Home Energy Rating and Disclosure (HER&D) involves the evaluation of a home's performance, and the disclosure of the home's performance report or rating to a prospective buyer at the time of listing or sale. The evaluation of a home's energy performance is useful information for both sellers and buyers to identify and compare the energy efficiency of properties and encourage energy efficiency improvements and GHG emission reductions. Sellers can use the audit to identify areas for cost effective energy improvements prior to sale. Buyers can consider energy retrofits to increase energy efficiency.

Previously, and most recently in 2015, the province sought feedback on a potential HER&D initiative in Ontario. There was and continues to be significant support and benefits associated with proceeding with this initiatives.

In June 2016, Ontario released its Climate Change Action Plan (CCAP) that describes the actions the province will take over the next five years to reduce GHG pollution and help move to

a prosperous low carbon economy. Ontario's CCAP committed the province to developing a HER&D program to support GHG reductions in the building sector.

Q. If an energy audit is required before a home can be listed for sale, will the audit delay the sale of a home?

This Fall, the Ministry of Energy plans to continue to engage with key stakeholders and government partners to help inform the development of a proposed HER&D program. Auditor market capacity, particularly in rural areas is an example of a program element that will need to be examined and addressed as the implementation plan is developed.

Green Investment Fund (GIF)

Q. Why is ENERGY providing \$100 million from the Green Investment Fund (GIF) to enhance the existing home energy audits and retrofit programs offered by Enbridge Gas Distribution and Union Gas?

Ontario is committed to taking action on climate change mitigation and adaptation while building a low-carbon economy. This \$100 million investment will help eligible homeowners across the province improve the energy efficiency of their homes, reduce their energy bills and cut greenhouse gas emissions. Working in partnership with Enbridge Gas Distribution and Union Gas allows us to leverage their extensive experience in delivering energy efficiency programs. Enbridge and Union have been delivering natural gas conservation programs in the province for over 20 years.

The government is working with Enbridge and Union to ensure the Green Investment Fund home energy audits and retrofit programs are offered province-wide (i.e. outside of Union and Enbridge service territories) and to homeowners who heat their homes with other fuels, such as oil, propane and wood. This investment is expected to enable audits and retrofits of approximately 37,000 homes and save approximately 1.6 Megatonnes (Mt) of cumulative lifetime greenhouse gas emissions, contributing to the province's GHG emissions reductions targets.

Funding will reward real, measureable actions by homeowners to reduce their carbon footprint, like replacing furnaces and water heaters and upgrading insulation. Homeowners will also conserve energy and save money on their energy bills.

Q. Who is eligible for these programs and what are the eligibility requirements?

Homeowners across the province who heat their homes with natural gas and other fuels, such as oil, propane and wood, will have access to these programs, allowing these homeowners to improve the energy efficiency of their homes, save money on their energy bills and reduce greenhouse gas emissions.

Q. How will the government measure the success of this program? How will you be able to tell if participation in the audit and retrofit programs are related to the GIF investment?

Success of the program will be based on several factors including the ability to reduce GHG emissions in the residential sector. Specific audits for each participating home will outline the actions undertaken through the program and associated energy savings.

The natural gas utilities report on a number of performance measures, such as:

- Program participation
- Cost effectiveness
- Annual incremental energy savings
- Cumulative lifetime GHG savings

Q. What kind of accountability will there be? Will the government or the Ontario Energy Board have the ability to provide oversight of how these private companies use the GIF funding?

Funding provided to Enbridge Gas Distribution and Union Gas is overseen by the Ministry of Energy and governed by the principles and reporting mechanisms outlined in the Transfer Payment Agreements.

Enbridge Gas Distribution and Union Gas are required to report on program performance and costs.

The Ontario Energy Board will continue to provide oversight of programs and spending for natural gas related programs delivered under the Demand-Side Management Framework.

Q. How are the programs offered by Union and Enbridge different?

Both programs require a pre and post audit and offer many similar retrofit measure incentives (furnaces, insulation, window, etc.).

The Enbridge Gas Distribution incentive structure is performance based, which means to qualify for retrofit rebates (and the cost of the post-renovation audit), a homeowner must achieve a minimum 15% annual gas or alternative fuel savings. The maximum incentive level including audit rebates is \$2,100.

The Union Gas incentive structure is measure based, which means that a homeowner is paid for each measure installed, up to a maximum of \$5,000. Union participants must complete both the pre- and the post-renovation audits to receive any rebates (audit and retrofit rebates). Typical incentives are in a similar range for both the Enbridge Gas Distribution and Union Gas programs.

Pipelines

Q. How is the ministry ensuring Ontario's interests are protected when it comes to pipeline projects?

The government must ensure the province's interests are taken into account.

The Minister of Energy asked the OEB to undertake consultations and complete a report on Energy East. The OEB's report was released in August 2015 and will inform Ontario's participation in the upcoming federal regulatory process for Energy East.

When it comes to pipeline projects that can span thousands of kilometers, across several provinces, such as TransCanada's Energy East proposal, it is vital that all governments take the time to hear from experts, community and municipal leaders, Indigenous communities and groups, business leaders and other impacted groups to ensure that all voices can be heard during the regulatory process.

Additionally, the government will evaluate oil and natural gas energy pipeline projects using the following six principles:

- Pipelines must meet the highest available technical standards for public safety and environmental protection;
- Pipelines must have world leading contingency planning and emergency response programs;
- Proponents and governments must fulfill their duty to consult obligations with Aboriginal communities;
- Local municipalities must be consulted;
- Projects should provide demonstrable economic benefits and opportunities to the people of Ontario, over both the short and long term; and
- Economic and environmental risks and responsibilities, including remediation, should be borne exclusively by the pipeline companies, who must also provide financial assurance demonstrating their capability to respond to leaks and spills.

In November 2014, Ontario and Quebec agreed on these as joint principles and added the need to take into account the interests of natural gas consumers and greenhouse gas emissions.

Q. Does Ontario support TransCanada's proposed Energy East project?

Ontario is committed to ensuring that Energy East is in the best interest of Ontarians, which includes ensuring safety for the people of Ontario, protecting the environment, maintaining the reliability of Ontario's natural gas supply and establishing future benefits for the economy.

Ontario's position on Energy East will be based on a careful evaluation of TransCanada's National Energy Board (NEB) submission.

Ontario has been proactive in its approach to Energy East. In the 2013 Long-Term Energy Plan (2013 LTEP), Ontario set out six principles for how the government evaluates oil and natural gas energy pipeline projects.

In November 2013, the province asked the Ontario Energy Board (OEB) to undertake a province-wide public consultation and review of the Energy East project. The OEB report released August 13, 2015 will inform Ontario's participation in the NEB regulatory proceeding. The report provides advice on ensuring an appropriate balance between the economic and environmental risks of the project and the expected benefits for Ontarians.

In November 2014, Ontario and Québec formed a Working Group to identify common interests and positions concerning the project.

Disconnections

Q. Ontario residents, especially in rural areas, are finding their electricity bills are higher than ever. What is the government doing about this?

The government understands the financial pressures that rising hydro costs are putting on some Ontarians.

Our government continues to ensure a clean, reliable and affordable electricity system for all Ontarians.

The delivery charge on consumer bills includes the cost of delivering electricity from generating stations across the Province to homes and businesses via the high voltage (transmission) and low voltage (distribution) electricity systems and also includes the cost of distribution system losses.

The cost of distributing power to lower-density rural and remote areas is much higher than for urban and higher density areas.

To help offset the higher costs to distribute electricity to Ontario residents who live in rural or remote locations, eligible customers receive a credit on their bills under the Rural or Remote Rate Protection (RRRP) framework.

RRRP provides rate protection for customers living in low-density areas– including Hydro One's R2 customers, customers of Algoma Power and customers of Hydro One Remote Communities and James Bay First Nation LDCs.

Electricity rates are set by the Ontario Energy Board (OEB).

The OEB is an independent regulator with a mandate to protect the interests of Ontario's electricity consumers.

The government has passed legislation that enhances the OEB's powers to continue to protect electricity ratepayers with respect to cost, consumer protection and reliability. The government recognizes that for low-income Ontarians, paying their electricity bill can be a challenge.

To ease this, the Ontario Energy Board (OEB) has developed the Ontario Electricity Support Program (OESP), which provides an ongoing rate reduction directly on the bills of low-income electricity consumers who have applied and meet the eligibility requirements.

OESP credit amount qualified customers receive is based on household income and household size.

Monthly credits range from \$30 to \$50. Customers with unique electricity needs could be eligible for a higher level of assistance.

Other assistance for low-income energy consumers is provided through the Ontario Energy and Property Tax Credit (OEPTC) and Northern Ontario Energy Credit (NOEC).

Q. Why are rural Ontarians paying such high delivery charges?

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Q. How are electricity prices set? Is there a formal process?

The Ontario Energy Board is the independent electricity regulator for Ontario and is responsible for setting Regulated Price Plan (RPP) rates twice a year so Ontarians know what to expect.

RPP prices are based on a projection of the cost to supply electricity over the upcoming 12-month period and a forecast of electricity consumption.

Q. People are losing their access to electricity completely because of your ruinous energy policies. What do you have to say about the increasing number of disconnections?

The government understands the financial pressures that rising hydro costs are putting on some Ontarians.

The Ontario Energy Board (OEB), as the independent regulator of Ontario’s energy sector, is responsible for regulating the disconnections process.

Electricity consumers enter into a contractual relationship with a utility for their supply of electricity and consumers are responsible for paying for the energy they consume.

Without this ability to disconnect non-paying customers, utilities could be faced with higher levels of delinquent payments, increasing the costs to all energy consumers.

The OEB has strengthened the customer service codes which govern utility actions regarding customers in default of payment.

Q. What are the rules for disconnection?

Disconnections are used as a last resort, since utilities are interested in maintaining all of their paying customers.

The OEB has strengthened the customer service codes which govern utility actions regarding customers in default of payment.

Utilities are responsible for providing at least ten days' notice prior to a disconnection, to allow the customer time to pay their outstanding balance. In instances where the customer is unable to pay the amount owed, they have the option to enter into a payment plan with the distributor.

Utilities are also required to make a reasonable effort to contact a customer a final time at least 48 hours before disconnection.

Q. Is disconnection allowed in the winter months?

Disconnection for non-payment of electricity bills is authorized under section 31 of the *Electricity Act, 1998*, and may include a disconnection during the winter months.

Similarly, the natural gas utilities may disconnect customers during the winter for non-payment of their bill.

In practice, utilities have always been very reluctant to disconnect residential customers during the winter, and try to work out compromises such as the installation of a load limiter or timed service interrupter. These devices limit the power available to the customer, and hence the utility's liability, but allow the customer to use a small amount of power.

The government has recently introduced measures that would, if passed, provide the OEB with the power to make rules or licence conditions respecting the periods of time during which gas or electricity utilities could not disconnect electricity or gas service to low-volume consumers.

Q. How many customers have been disconnected in the province this year?

The government understands the financial pressures that rising electricity costs are putting on some Ontarians and continues to work hard to help Ontarians manage their electricity costs.

Utilities began reporting in 2014 showing their 2013 data. This information is available to the public on request.

These figures show that on average a little over 1 per cent of residential customers (or about 54,000 customers) have been disconnected in each of the last three years.

As part of the OEB's commitment to consumer protection, we put into place robust rules that electricity utilities must follow if they disconnect a residential consumer.

Climate Change Action Plan (CCAP)

Q. How will the electricity sector be affected by cap and trade?

Ontario has been taking strong climate-positive actions for years, such as successfully eliminating coal as a source of electricity generation and developing a long-term energy plan that focuses on a safe, clean, reliable and affordable energy future.

The elimination of coal-fired generation represents a 30 Mt reduction in greenhouse gas emissions since 2003. Ontario's electricity sector is now over 90% emissions free. As a result of

these efforts, Ontario's electricity system is in a strong position as we move forward with implementing the province's cap and trade program.

Under the cap and trade program design, Ontario's natural gas distributors (i.e., Enbridge Gas and Union Gas) will be the "point of regulation" for Ontario's natural gas-fired electricity generators and users that are not directly covered under the program (i.e., those emitting less than the 10,000 t CO₂ opt-in threshold). This means that natural gas distributors will purchase allowances to cover emissions of natural gas-fired electricity generators and other consumers that are not directly covered under cap and trade.

As a regulated entity, costs incurred by gas distributors to comply with the cap and trade program would be passed on to natural gas consumers once reviewed and approved by the Ontario Energy Board (OEB).

Q. Are you really going to ban natural gas as part of the Climate Change Action Plan?

Natural gas remains a clean, reliable option, and it will continue to play a critical role in Ontario's energy mix.

In 2015, we announced a \$230 million investment to expand access to natural gas through rural Ontario.

Through the release of Ontario's Climate Change Action Plan, we are continuing our commitment to expand gas into northern and rural communities.

We are also looking at opportunities to lower the carbon intensity of our natural gas system through the inclusion of renewable natural gas. In May we announced we will be investing up to \$100 million in cap and trade proceeds over four years to support the introduction of renewable natural gas.

Q. Will Ontario consumers face increased electricity costs because of cap and trade?

As outlined in the 2016 Budget, the government intends to recycle a portion of the cap and trade auction proceeds to fund committed investments in electricity sector initiatives that reduce greenhouse gases (GHGs) such as conservation programs.

The government will also take steps to ensure that the net impact of cap and trade would not result in an overall increase in electricity costs for average commercial and industrial consumers, and that there would be a modest benefit of up to \$2 per month, on average, to residential consumers.

To address the 2016 Budget commitment, a range of approaches are being considered.

A final decision has not yet been made.

Q. Will Ontario consumers face increased fuel costs because of cap and trade?

Cap and trade is expected to increase the average cost per household heating with natural gas by approximately \$5.00 per month.

The 2016 Budget estimated that in 2017 cap and trade would lead to an increase in the cost of a cubic meter of natural gas by 3.3 cents.

This is a modest increase on a fuel that is currently at a very low price.

On March 10, 2016, the Ontario Energy Board (OEB) announced a consultation process to develop a regulatory framework for natural gas distributors' cap and trade compliance plans. The OEB encouraged all interested parties to participate in the consultation process.

Natural Gas Cap and Trade Charges

Q. Why has the Ontario Energy Board (OEB) decided to include the Cap and Trade charge as part of the delivery charge on the bills of natural gas customers? Isn't this just a tax that is being buried in utility bills?

There are a number of reasons for the decision:

- The costs of complying with the new Ontario cap and trade program are part of the ongoing operations of the natural gas utilities. Ongoing operations costs are included in the delivery line on utility bills.
- Cap and trade costs are similar to conservation program costs. Both are designed to encourage consumers to reduce their usage. The costs of energy conservation programs are included in the delivery charge, and are not broken out. The inclusion of cap and tradetrade costs in the delivery line follows this model.
- Research conducted by the OEB shows that consumers want simpler bills and information that helps them manage their costs. The research shows that, when reviewing their monthly bills, consumers focus their attention on the amount they consumed and the total bill price; little attention is paid to specific bill line items.
- A review of other jurisdictions with cap and trade programs indicates there isn't a standard approach to bill presentment;

Q. Industry sources and opposition parties are suggesting that the OEB has made its decision not to include cap and trade costs on the gas customer bill to help the government hide this new tax. Did the government tell the OEB to bury the cap and trade costs in the delivery line of the bill? Isn't the OEB supposed to make independent decisions?

The OEB oversees the province's electricity and natural gas sectors through effective, fair and transparent regulation. The OEB makes independent decisions, keeping in mind the interests of energy consumers.

It's the OEB's job to make sure that customers get a fair and reasonable rate – that's what we've done. Customer protection and ensuring customers are well informed is our purpose for the framework we are developing and the letter we've issued today.

The OEB is developing the regulatory framework to facilitate the recovery of cap and trade costs using our regular open, transparent and public process.

Q. If the cap and trade costs are not presented on a separate line on the natural gas bill, how will consumers be aware of the new costs?

To help with consumer education, the OEB will provide key communications messages for the natural gas utilities to use in their full range of customer communications so that all consumers get clear and consistent information on the implementation of the cap and trade program.

Natural gas distributors are best positioned to educate their customers about provincial cap and trade costs, energy conservation programs, and how they can help to reduce the effects of climate change, through the customer communications that they currently use.