



Energy Council of Canada
Conseil canadien de l'énergie

ECC and The Canadian Energy Strategy

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Chair

Energy Council of Canada

CCRE Energy Leaders Roundtable

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Working TOGETHER on ENERGY



Who We Are

- Canada's national vehicle for strategic thinking, networking and studies on national and global energy issues.
- Marking its 90th anniversary, founding member of World Energy Council since 1923. WEC extends the ECC reach beyond Canadian borders to global stage.
- Mission is to forge a better understanding of energy issues to best shape the energy sector for the benefit of all Canadians.
- A core Energy Council value is the sustainable supply and use of energy.
 - Current and future supply must be secured and infrastructure reliable.
 - Energy must also be accessible and affordable.
 - It must also be environmentally sustainable with supply and demand-side efficiencies and the development of renewable and low-carbon sources.
- Annually, since 2001, we have recognized the Canadian Energy Person of the Year. Just a reminder that nominations are now open for this prestigious award.
- We also support research in partnership with WEC and universities in Canada.



Priorities for 2014

- In 2014, the Energy Council is focusing on four priorities:
 - Advancing the energy dialogue in Canada.
 - Engaging key stakeholders and finding points of consensus.
 - Facilitating informed public policy discussion.
 - Recognizing outstanding achievements in the energy industry.
- Canada hosts the WEC North American Forum in Calgary in late June. Key themes:
 - Energy trade diversification as North American approaches energy self-sufficiency.
 - Changing business paradigm for electricity utilities – Are “we” ready?
- Regional Roundtables building to 2014 Canadian Energy Summit and N.A. Forum.
- Federal/Provincial/Territorial Energy and Mines Ministers conference is in Sudbury.



Report to the Council of the Federation

- Originates from ECC 2013 Canadian Energy Summit
 - Ontario Premier Kathleen Wynne was the keynote speaker.
 - ECC Report submitted report with further engagement to follow.
- The lead for formation of a Canadian Energy Strategy by the Council was given to three Co-Chair Premiers – Alberta's Alison Redford, Tom Marshall of Newfoundland and Labrador, and Greg Selinger of Manitoba – and their working groups.
 - Delivering Energy to People – led by Alberta;
 - Sustainability and Conservation – led by Manitoba;
 - Technology and Innovation – led by Newfoundland and Labrador.
- ECC Summit agenda followed the same three session approach.



Delivering Energy to People

- Key Findings:
 - Strategy has to address energy within Canada, and Canada as international supplier.
 - Comprehensive view means linking energy with environment and workforce strategies.
 - Economic and environmental implications of a strategy that considers production, distribution and use of energy is crucial. Transportation will figure in debate.
 - The federal government and the provinces must work together on an energy strategy.
 - Inclusive engagement of communities on decisions about our energy systems is key.
 - Public concerns over environmental protection and safety are significant.
 - Connecting remote communities to electricity grid improves environment and raises the prospects for economic opportunity.



Sustainability and Conservation

- Key Findings:
 - Consensus is sustainability and conservation are needed; question is how to do it?
 - Strategy should encompass the whole energy equation – production, use, storage.
 - Smart grid technology enables improved control and efficiency of the electricity grid.
 - Government policy design can be used to promote and support things such as battery storage, increased use of natural gas vehicles, clean-tech and micro-grid technologies.
 - Improving Canadians' energy literacy, including on various forms of supply such as renewables, nuclear and fossil fuels, advances debate and economic understanding.
 - Canada's climate and technology mean global growth potential for smart meters.



Technology and Innovation

- Key Findings:
 - Investments for the future are needed today – technology, infrastructure, workforce.
 - Accelerate the development and deployment of research and technologies that advance more efficient production, transmission and use of clean and conventional energy.
 - More flexible workforce training, mobility and transferability across Canada is needed.
 - Aligning regulatory requirements across jurisdictions will promote innovation and R&D.
 - Public funding and private capacity can help underutilized groups fill unmet needs.
 - Clean-tech and micro-grid technologies offer Canada a great competitive advantage.



Premier Wynne's Speech

- Ontario Premier Kathleen Wynne, 2013 Chair of the Council of the Federation, opened the Summit with a keynote address. Her main points:
 - There is a great appetite in Canada for action on a national energy strategy.
 - The objective is balancing interests of consumers, industry and the environment.
 - Energy considerations that exist within each province also exist across the country.
 - Canadians take for granted having electricity, and that energy will be affordable.
 - The reality is otherwise and depends on where in the country they are.
- At the heart of the strategy is a three-prong approach:
 - Invest in people;
 - Invest in infrastructure;
 - Invest so business can thrive.



Wynne's Speech (cont.)

- Canada's energy supply mix is being diversified.
 - Moving off coal;
 - Mix ranges from nuclear to natural gas to hydro, wind and solar;
 - Conservation a key pursuit and technology is increasing smart grid development.
- Energy strategy must challenge assumptions regarding clean air, fossil fuels, lifestyle.
- It must look at our energy transmission systems – how it's delivered, where and when.
- An energy strategy needs to create reliable service to off-grid communities, including many First Nations communities, as well as to those on the grid.
- The provinces, through the Council of the Federation, are taking a leadership role.
- The Premiers are targeting the summer of 2014 for final Canadian Energy Strategy.



Conclusion

- Implementation of a Canadian energy strategy will rely upon all the players in the energy equation – industry, government, academe, labour, users, and all of society.
- We need to start with a reasonable scenario that requires an innovative solution.
- We must develop a vision of what's possible and an integrated energy strategy to take advantage of the tremendous energy resources that Canada has available.
- If we want to design an integrated energy system, we need to take the time to understand that system and give industry experts an agenda for innovation.

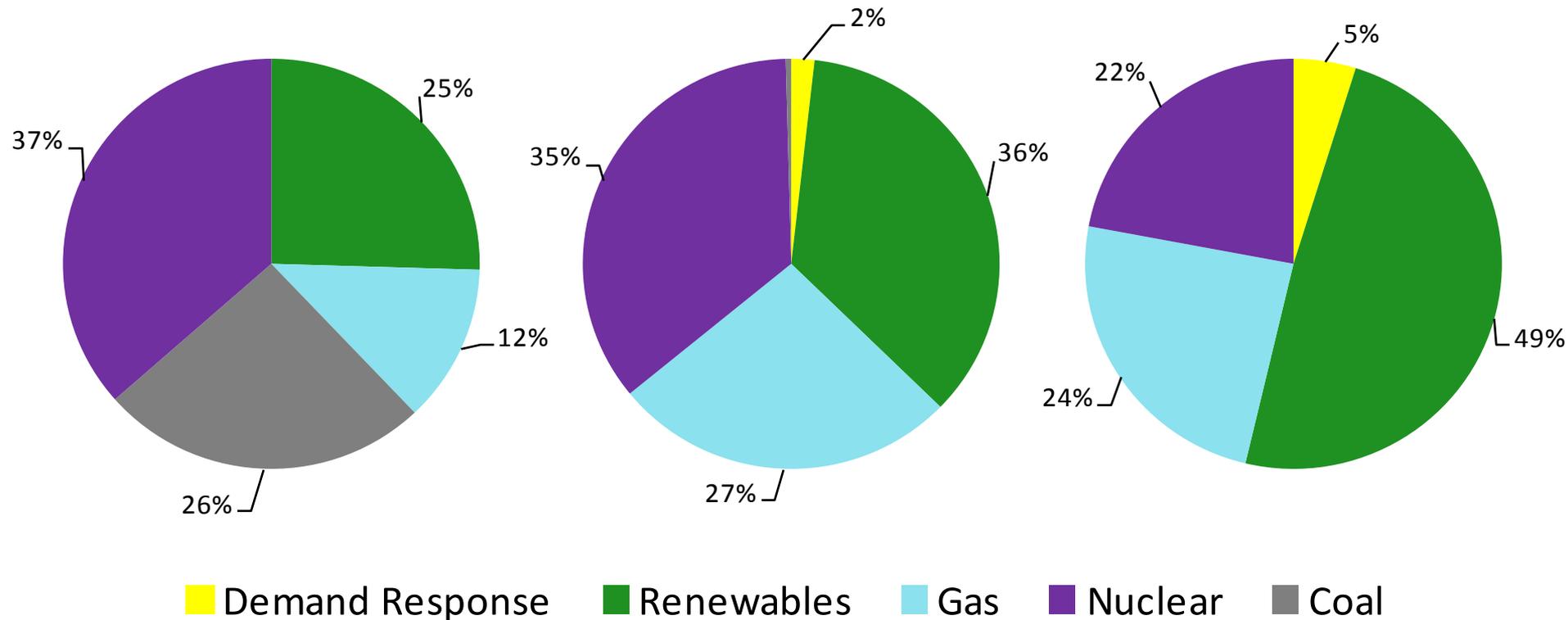
“Having a shared vision of how we can sustainably produce, distribute and use energy in Canada for Canadians and for the world, developing a strategy to deliver that vision, and then putting in place policies and regulations that align with the strategy will lead to significantly enhanced environmental, social and financial benefits for Canadians.” – Report to the Council of the Federation, January 2014

Ontario's Supply Mix: Past, Present and Future

2000 - 18,769 MW

2014 - 36,481 MW

2030 - 40,927 MW



Note: Installed resources at time of Summer Peak