



# CCEI: Canadian Centre for Energy Information

**Mary Beth Garneau**  
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**2019**



Delivering insight through data for a better Canada



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# Why Canada needs a Centre for Energy Information

- Polarization of energy/environment debates aggravated by multiple and often conflicting data sources
- Data duplication, respondent burden, and general confusion from multiple sources of similar data
- Incoherent data and inconsistencies across sources
- Difficult to find Canadian energy data and substitution of data from international sources



The screenshot shows a CBC news article from January 27, 2019, titled "Experts urge Ottawa to fix Canada's data deficit" by Tavia Grant and Eric Andrew-Gee. The article discusses the challenges of fragmented public data in Canada, citing a report from The Globe and Mail. It highlights the need for a centralized data system to improve transparency and decision-making. A sidebar on the right features a related article titled "Why Canada needs better information about all the energy it produces" with a photo of an oil pumpjack. The article text includes a quote from an analyst: "Imagine trying to drive a car while having only the rear-view mirror." and mentions that a lack of information about the energy sector has long been an issue for analysts and economists.

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## Experts urge Ottawa to fix Canada's data deficit

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TAVIA GRANT AND ERIC ANDREW-GEE  
PUBLISHED JANUARY 27, 2019  
UPDATED JANUARY 28, 2019  
12 COMMENTS

Canada could fix gaps in public data by improving provinces, copying ideas from other countries and legislation that stifle access to information, according to Canada workers and international experts.

The Globe and Mail spent six months examining the reasons why our public-data system is so problematic and the problems stem from data, such as health records and not comparable – a desire by some government Canada to lock it away – and out-of-date acts or

**In the dark: The cost of Canada's data deficit**

Around the same time, the federal public service produced a set of recommendations that are available to government. A report published in November at the request of the government, including Anil Arora, chief statistician, in the management of public data in Canada.

"Managing, using and sharing data will be crucial for the government is not set up to treat data as a strategic asset," says the report.

### Why Canada needs better information about all the energy it produces

f in t w g y

"Imagine trying to drive a car while having only the rear-view mirror," analyst says

Tony Seskus · CBC News · Posted: Feb 27, 2019 12:48 PM ET | Last Updated: February 27



A pumpjack works at a well head on an oil and gas installation in Alberta. Faced with the difficult job of assessing the impact of oil production cuts, industry watchers are renewing calls for better access to robust information about Canada's energy sector. (Jeff McIntosh/The Canadian Press)

A lack of information about Canada's energy sector has long been an issue for those trying to gauge how the system is working — from analysts to economists to public policy researchers.

There are several government organizations that compile energy-related data such as Statistics Canada, the National Energy Board, Alberta Energy Regulator and Natural Resources Canada.

But there's no single, official source of up-to-date, comprehensive information on topics related to oil and gas production, renewable energy use, and the environmental impact of the sector, for instance.

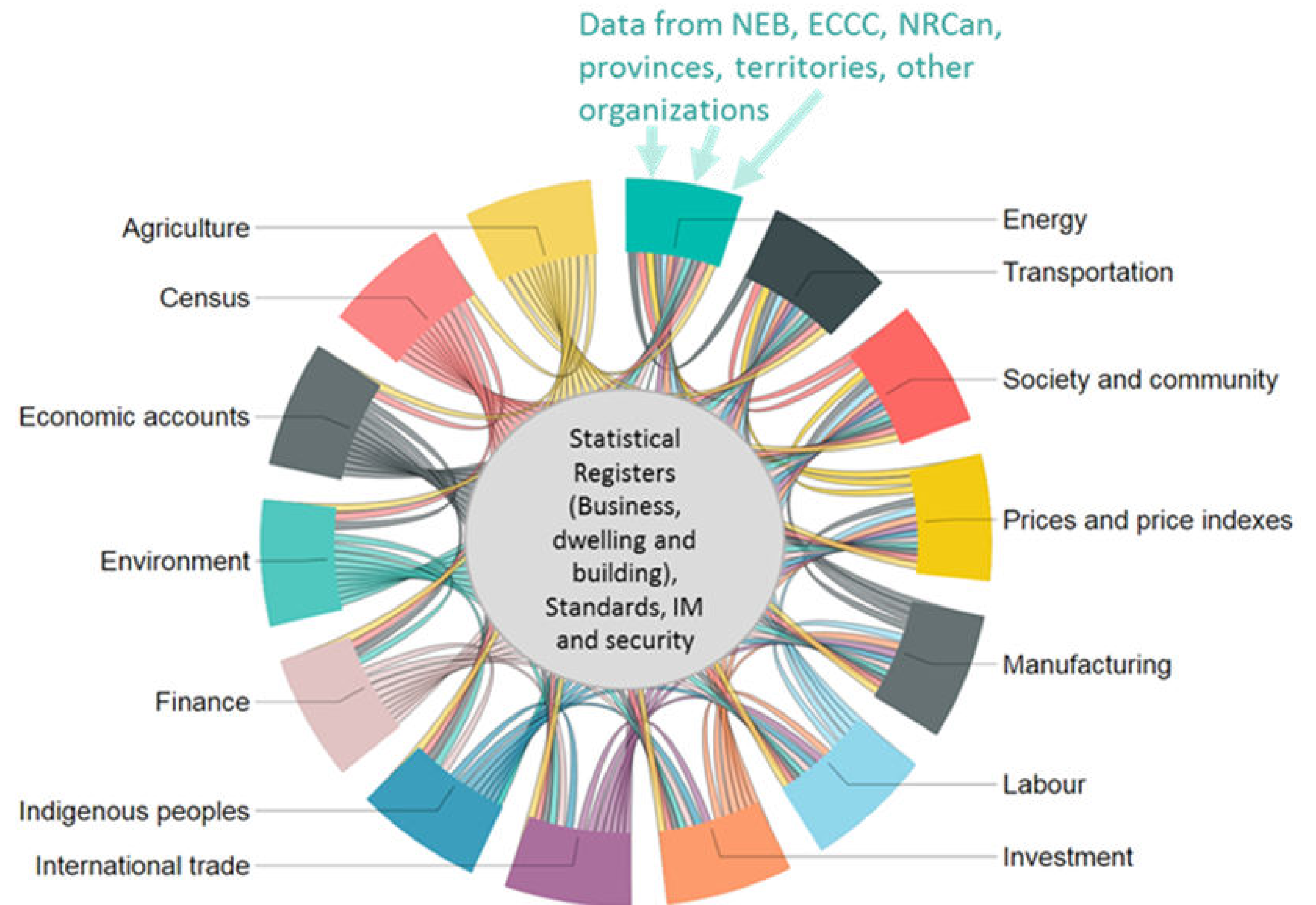


## CCEI: Canadian Centre for Energy Information

- Budget 2019 provides Natural Resources Canada with \$15.2 million over five years, with \$3.4 million per year ongoing, to establish a virtual Canadian Centre for Energy Information (the Centre) delivered by Statistics Canada.
- The Centre is a partnership between Natural Resources Canada (NRCan) and Statistics Canada
- In delivering the CCEI, Statistics Canada will be an arms-length arbitrator of energy statistics with no direct ministerial involvement in methodological or technical issues.



# Statistics Canada Value Proposition



# Vision of the CCEI

## One-stop access

- User-centric design
- Compile and reconcile energy data

## Better information

- Make energy information more complete, coherent and timely by addressing data gaps.

## Collaborative governance

- Meeting the needs of diverse stakeholders via inclusive governance.



Infographics, dashboards and maps



Data with ability to:

- Query
- Manipulate
- Visualize
- Download
- Model and forecast



Analytical products and models such as:

- Supply forecasts
- GHG projections
- Provincial profiles
- Market snapshots

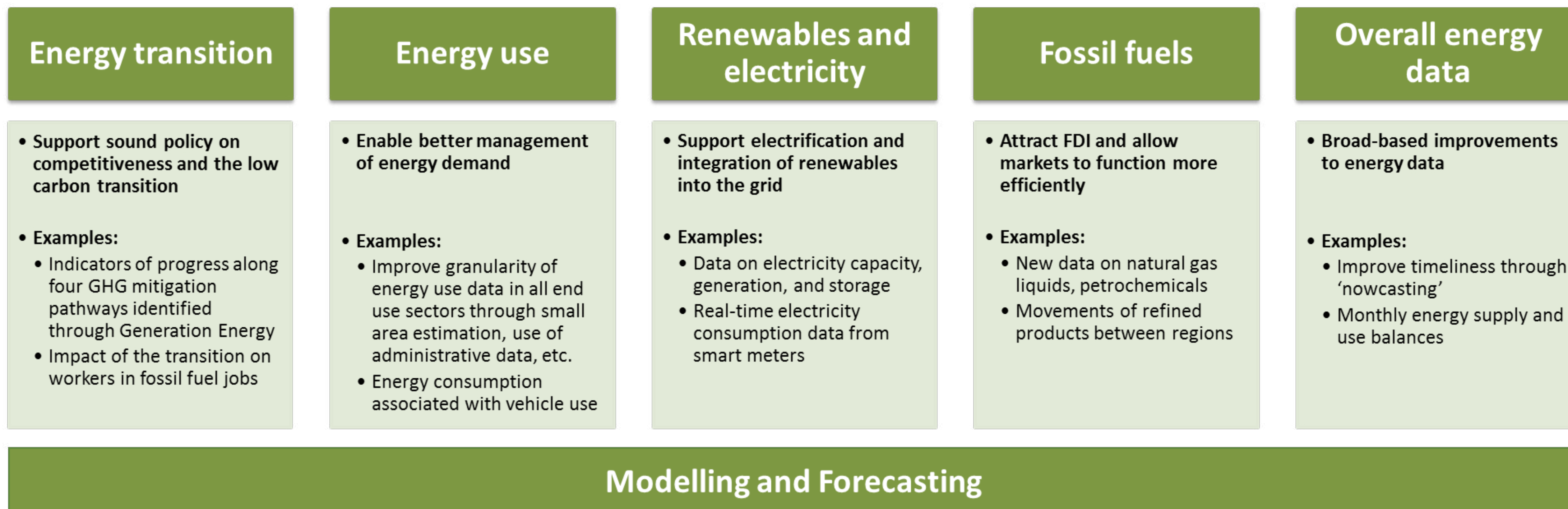


Virtual data labs

- Provides remote microdata access
- Collaboration
- Share code



## Better information – Filling data gaps



# Standing up the CCEI - Deliverables and Foundational

June 2020 – Launch Website						
Website user experience	<ul style="list-style-type: none"><li>• Modern, user-tested design and layout</li><li>• Energy transformation frame</li></ul>		<ul style="list-style-type: none"><li>• Customization to different user types</li></ul>			
Website content and tools	<ul style="list-style-type: none"><li>• Data visualizations, infographics, and analytical reports on a range of energy transformation issues</li></ul>		<ul style="list-style-type: none"><li>• Expanded dashboards</li><li>• First products related to modelling</li><li>• Secure microdata access</li><li>• Cloud-based collaboration space</li></ul>	<ul style="list-style-type: none"><li>• Data visualization tools</li><li>• Geospatial features</li><li>• Calculators to examine impacts of energy investments, policies, trends</li></ul>		
Integrated and improved energy data	<ul style="list-style-type: none"><li>• Integration of some federal data that is currently scattered (e.g., NRCan Energy Facts)</li><li>• New data to inform the low-carbon transition<ul style="list-style-type: none"><li>○ Electricity generation from biomass</li><li>○ GHG intensity by PT</li><li>○ GHGs by commodity</li><li>○ More monthly data on energy supply/disposition</li></ul></li></ul>		<ul style="list-style-type: none"><li>• Continued integration of existing federal data</li><li>• Begin and gradually complete integration of existing PT data</li><li>• Address priority data gaps identified through engagement and governance</li></ul>			
Visible – New website, data, content, and tools						
Less Visible – Foundational work						
Website	<ul style="list-style-type: none"><li>• Consultations on user types</li></ul>				<ul style="list-style-type: none"><li>• Roll-out of tools to align with modernization of StatCan infrastructure</li></ul>	
Integrated data	<ul style="list-style-type: none"><li>• Development of common data standards</li><li>• Data integration strategy (metadata, definitions, data management)</li></ul>				<ul style="list-style-type: none"><li>• Prioritization of PT and other external data</li><li>• On the ground work with PTs (e.g., IT specifications, developing concordances)</li></ul>	
Improved energy data	<ul style="list-style-type: none"><li>• Gather input on priority data gaps through engagement</li></ul>				<ul style="list-style-type: none"><li>• Scoping studies, data collection, data integration, etc.</li></ul>	
Modelling products	<ul style="list-style-type: none"><li>• Discussion with federal partners</li><li>• Consult with modelling community to identify needs</li></ul>				<ul style="list-style-type: none"><li>• Development of modelling standards &amp; documentation for consensus forecasts</li></ul>	





## Linkage with modelling

- Access to data
  - Data standards and metadata
  - Open data
  - Virtual Data Labs (Research Data Centres)
- Data gaps
- Collaborative space
- Standards for transparency
- Publish results
- Interactive tools



Thank you

**Mary Beth Garneau**

Chief Energy Statistics Officer  
Canadian Centre for Energy Information  
Statistics Canada

[marybeth.garneau@canada.ca](mailto:marybeth.garneau@canada.ca)

613-951-0469