



The Role of the B.C. Government in Fostering the Growth of the Energy Efficiency and Conservation Industry

BC ACE Annual Meeting

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Benefits of a thriving EEC Industry

BC's **Green Building and Energy Efficiency sector** contributed an estimated **\$8.4 billion** in **gross domestic product** (\$5.5 billion direct and \$2.9 billion indirect) and **76,450 full-time equivalent jobs** (46,290 direct and 30,160 indirect) in 2011. (Globe Advisors 2012)

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"B.C.'s clean technology industry represents world-leading innovations and solutions for industries around the globe. For British Columbia that means long-term, high-paying jobs in a sector that continues to grow year over year."

- Premier Christy Clark



Four Provincial Energy Efficiency Arenas

1. Oversight of Utility DSM
2. Codes and Standards Development
3. Provincial Programs
4. Public Sector Leadership

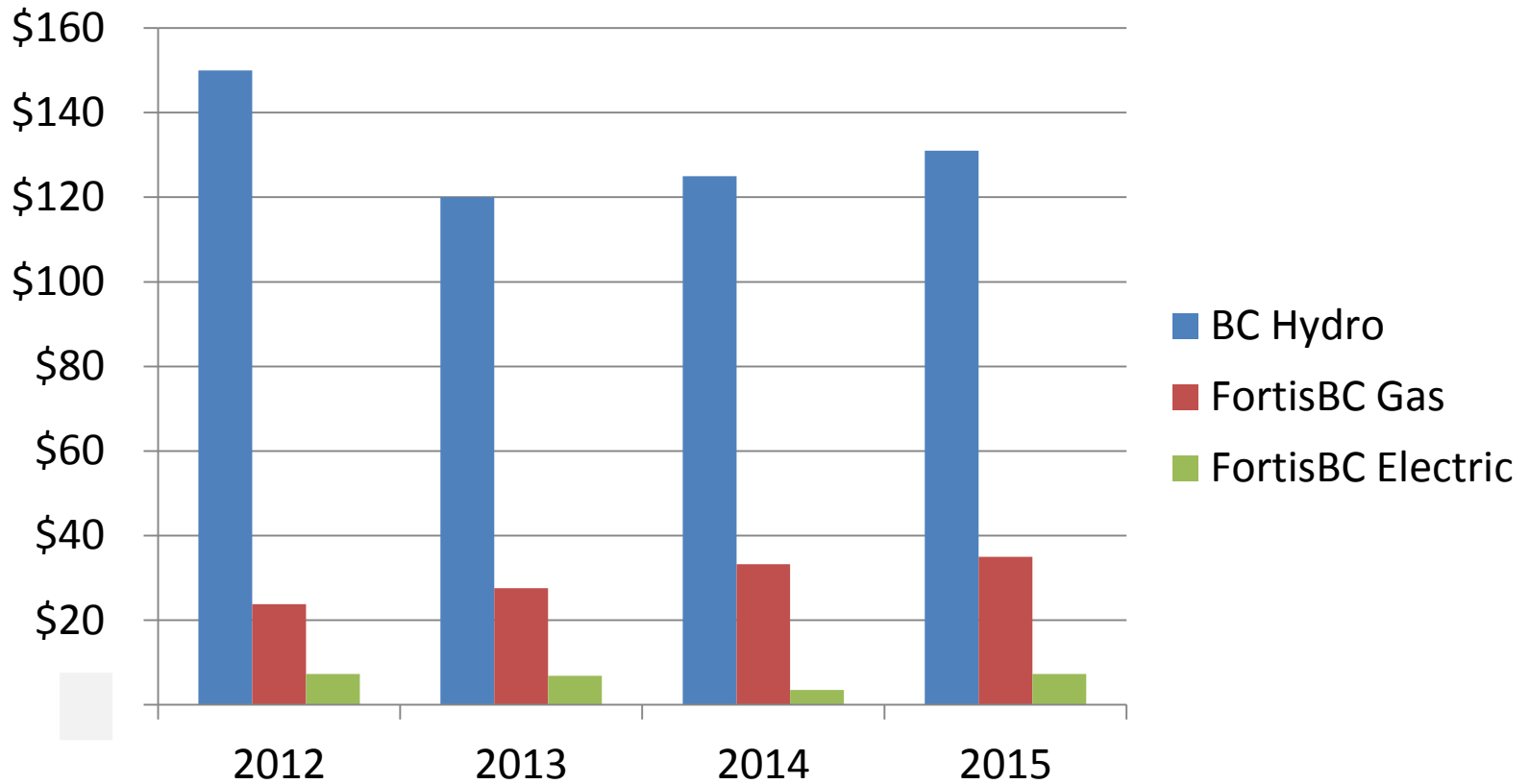


1. *Overseeing Utility DSM*

- ***Utilities Commission Act***
 - Ensures that utilities' prioritize cost-effective DSM in their short-term and long-term planning
 - Allows utilities to earn a reasonable rate of return on DSM expenditures
 - Requires utilities to annually report on DSM performance
- ***DSM Regulation***
 - Sets the terms for how utilities and the BCUC assess the cost-effectiveness of DSM programs and portfolios
- ***Clean Energy Act***
 - 66% DSM target for BC Hydro
 - Government Review of BC Hydro's IRP



Annual Utility DSM Expenditures (\$M)





Implications of Robust, Cost-Effective DSM Portfolios for the EEC Industry:

Investments in energy efficiency create jobs - **every \$1M invested in efficiency upgrades generates 35 person-years of employment.** (BC Hydro Power Smart Employment Impacts 2010)



2. Codes and Standards Development

- **Market Transformation Approach**
 - Identify priority products and measures for regulation with our regional and national partners
 - Work with utilities to minimize barriers to their adoption (e.g. through incentives, information, etc.)
 - Regulate when products or measures have sufficient **awareness, availability, accessibility, affordability and acceptance**
- **Energy Efficiency Standards Regulation – Amendment 5:** new and updates energy efficiency standards for small battery charging systems, household appliances and gas resulting in **263 GWh of energy savings by 2020**
- Work with the **Office of Housing and Construction standards** to advance energy codes



Implications of C&S Development for the EEC Industry:

High energy efficiency standards in the residential, commercial/institutional and industrial sectors **will return \$3 to \$5 for every 1\$ invested**, increase Canada's annual **GDP** by up to **\$48 billion** and **create up to 304,000 jobs per year**. (Environment Northeast and Acadia Center 2014)



3. Government Funded Program Development

\$2.2M in ICE Fund EEC Programs Approved in F2015

- **ISO 50001 Implementation Incentive**
- **Passive House Training Subsidy**
- **Home Energy Performance Professional Accreditation Funding**
- **Oil Furnace to Electric Heat Pump Incentive**
- **Heat Pump Water Heater Field Research**
- **Window Market Study Funding**
- **Grant to FortisBC for Development of EDX for Portfolio Manager**
- **High Performance Window R&D&C Incentive**



4. Advance Public Sector Leadership

- New Provincially owned or leased buildings must be **LEED gold or equivalent.**
- **Carbon-neutral Capital Program** helps schools, universities, colleges and hospitals reduce energy costs
- Energy Benchmarking - **Portfolio Manager Pilots** Underway



Opportunities for Future Collaboration:

- Continued BC ACE – MEM Engagement
- Climate Action Plan 2.0?



Thank You

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