Clean Energy BC
POWERING GENERATIONS 2019
LEGACY TO THE FUTURE
Trail, BC
June 4th - 6th
www.cleanenergybc.org
Building the Clean Economy: Job Opportunities with CleanBC

Clean Energy BC Conference
June 5, 2019 / Trail, BC

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Senior Director
Clean Economy Sectors:

- Clean power supply & storage
- Industrial energy & process efficiency
- Clean transportation
- Materials & waste / resource management

BC’s clean economy (2016):

- 94,000 Direct Jobs
- $13.5B GDP
Rising Consumption & Resource Challenges
Aging Infrastructure & Need for Renewal
Competitiveness & Job Opportunities
Climate Change Risk & Resiliency
Growth of the Clean Economy

Trends & Drivers
# CleanBC Climate Strategy

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<th>Sector</th>
<th>CleanBC Policy Goals / Targets</th>
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| **Buildings & Infrastructure** | By 2030, GHG emissions from buildings to drop by 40%  
  - All new building to be net-zero energy ready by 2032  
  - 70,000 homes and 10 million m² of commercial buildings retrofitted to use electricity in space heating by 2030  
  - 60% of homes and 40% of commercial buildings heated by electricity  
  - Public buildings reduce GHG emissions by 50% by 2030  
  - Less diesel and more biofuels and renewables for communities |
| **Transportation**       | By 2030, fossil fuel use for transportation has dropped 20%  
  - 30% all new light-duty car and truck sales will be ZEVs by 2030 / 100% by 2040  
  - Production of 650 million litres of renewable fuels per year by 2030  
  - 20% reduction in carbon intensity of transportation fuels by 2030 (Low Carbon Fuel Standard)  
  - Reduce GHG emissions 40% from BC Government vehicles |
| **Cleaner Industry**     |  
  - Reduce industrial GHG emissions by 2.5 Mt per year (Industry Fund, electrification, CCS)  
  - 15% renewable gas / RNG in the natural gas pipeline by 2030  
  - Reduce methane emissions from the natural gas sector by 45% by 2025 |
| **Waste-as-a-Resource**  |  
  - 95% of organic waste diverted (including municipal, industrial, and agricultural) from landfills by 2030  
  - 75% of landfill methane captured by 2030 |
| **Others**               |  
  - TBD |
The remaining reductions achieved through initiatives such as:

- Improving community planning, active transportation, and transit
- Cleaner heavy-duty vehicles and freight
- Significantly increasing industrial electrification
- Maintaining a resilient agricultural sector
- Investing in technology and innovation
## BC’s CLEAN ECONOMY WORKFORCE OPPORTUNITIES TO 2030

### Clean Power Generation, Distribution & Storage

- Electricity generation
- Smart grid & transmission infrastructure
- Energy storage

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### Clean Transportation

- Renewable & low-carbon fuels
- Public transit & smart mobility
- Low-carbon & electric vehicles
- Transportation infrastructure & goods movement (incl. rail)
- Land use planning

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### Green Buildings & Resilient Infrastructure

- Building design & engineering
- Construction & renovation
- Land use & urban planning
- Resilient infrastructure development

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### Industrial Energy & Process Efficiency

- Energy & process efficiency technologies
- Carbon capture, storage / sequestration & utilization
- Waste heat recovery
- Bio-products & fuel switching

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### Materials & Waste / Resource Management

- Methane capture, organics management & composting
- Advanced chemistry
- Materials management & recycling

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CONSIDERATIONS FOR LEVERAGING THE WORKFORCE OPPORTUNITIES

- Addressing Skill Gaps (Technical & Non-technical)
- Enhancing Recruitment & Retention Strategies
- Access to Training for Rural & Remote Areas
- Increasing Experiential & Life-long Learning Opportunities
- Driving Demand for Training & Quality Work
Thank you!

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