



ONTARIO  
SOCIETY OF  
PROFESSIONAL  
ENGINEERS

## About Us

The Ontario Society of Professional Engineers (OSPE) is the voice of the engineering profession in Ontario. We represent the entire engineering community, including professional engineers, engineering graduates and students who work or will work in several of the most strategic sectors of Ontario's economy. We champion the interests of engineers, promote ethical practices and contribute to the advancement of engineering excellence for the benefit of Ontario and Canada.

**#EngineersLead #OSPELeads**



## Our Asks from the Federal Government :

### Develop a Robust National Cybersecurity Strategy

- The federal government should establish a cohesive strategy, with effective provincial enforcement, to ensure a comprehensive and collaborative approach in addressing cybersecurity challenges in the digital landscape.
- Engineers can provide critical insights into creating secure systems and frameworks that protect individuals' privacy while promoting responsible data use.

### Modernize Procurement Processes

- The federal government should adopt a Quality-Based Selection (QBS) approach in procurement processes, prioritizing qualifications, expertise, and inclusivity.
- This will enhance project outcomes, foster innovation, and improve efficiency in engineering services.

### Update the National Building Code

- The federal government should ensure that the National Building Code aligns with the most recent safety standards, energy efficiency criteria, and technological advancements.
- This will promote construction practices that are safe, sustainable, and technologically sophisticated.
- Engineers are qualified professionals in climate-related assessments and can contribute innovative solutions to reduce carbon emissions in building practices, enhance environmental sustainability, and promote resilience.

### Implement a National EV Battery Recycling Plan

- The federal government should work to implement a national electric vehicle battery recycling plan by:
  - Establishing a comprehensive network of collection points across Canada to efficiently gather used EV batteries ensuring convenient accessibility for both urban and rural communities.
  - Investing in research and development to innovate efficient and environmentally-friendly methods for recycling lithium-ion batteries and maximizing recovery of valuable materials such as lithium, cobalt and nickel while minimizing waste and pollution.
  - Fostering partnerships between government agencies, battery manufacturers, automotive companies, and recycling facilities to streamline the recycling process, enforce regulations, and promote sustainable practices.

### Develop a Thermal Network Strategy for Canada

- The federal government should work with provincial governments to develop a Thermal Network (TN) strategy aimed at identifying and supporting areas for thermal network infrastructure investments.
- Thermal networks are district energy systems that harvest, produce, store and distribute heat through a network of insulated, buried water pipes: more than 200 existing district energy systems currently meet about 3% of Canada's total heat demand, but up to 70% of the Canadian population could be serviced by such networks.
- Thermal networks are a crucial consideration as a means of meeting Canada's heating demand and reducing strain place on the grid by electrification.

### Plan for Canada's Energy Future

- The federal government should focus on an energy future that is diverse, sustainable, and affordable for Canadians.
- The federal government should endeavour to increase the representation of engineers of all disciplines within federal working groups and Committees, particularly emphasizing involvement within NRCan's Energy Working Group, to ensure comprehensive consideration of technical expertise and provincial perspectives.
- We encourage the promotion of collaboration efforts between federal and provincial governments to bridge the gap and align strategies, and the adoption of a system-thinking approach and other circular economy principles to effectively address sustainable energy challenges.