ENERGY EFFICIENCY

Reduction at source  |  Recovery of energy  |  Replacement of equipment

QUÉBEC ASSETS

- **2030 Energy Policy**
  - Enhance energy efficiency by 15%
  - Reduce the consumption of petroleum products by 40%

- **A carbon price** will encourage consumers to use resources more efficiently

- Development of expertise in **northern climates**

- **Transition énergétique Québec** coordinates government initiatives and programs

- Challenge: low cost electricity from renewable sources

Quebec energy consumption by sector of activity in 2014

<table>
<thead>
<tr>
<th>Sector</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry</td>
<td>35%</td>
</tr>
<tr>
<td>Building</td>
<td>30%</td>
</tr>
<tr>
<td>Transport</td>
<td>28%</td>
</tr>
<tr>
<td>Other</td>
<td>7%</td>
</tr>
</tbody>
</table>

Research and organizations

- CanmetENERGY - Natural Resources Canada
- Chair in Energy Sector Management - HEC Montréal
- Industrial Research Chair in energy technology and energy efficiency (T3E) - École de Technologie Supérieure
- Chair de recherche de l'Université Concordia en Énergie et Environnement
- Institut de l'environnement, du développement durable et de l'économie circulaire (Institut EDDEC)
- Institut de Recherche d'Hydro-Québec (IREQ)
- Association Québécoise pour la Maîtrise de l'Énergie (AQME)
- Canadian Energy Efficiency Alliance (CEEA)
- Coop Carbone

* Chair in Energy Sector Management – HEC Montréal (2016)
Atis Technologies supplies the industrial and food processing sectors with solutions that greatly reduce energy consumption and increase profitability by combining renewable energy with effective energy management. Atis Technologies has developed energy management and control systems that optimize performance and deliver results.

Carnot Réfrigération designs and manufactures high-end, energy efficient systems using environmentally friendly methods. It specializes in CO2 refrigeration systems with heat recovery for supermarkets, refrigerated warehouses and arenas, as well as air conditioning for server rooms.

Ecosystem is an award-winning, independent design-build firm offering turnkey construction and retrofit projects in Canada and the U.S. The company designs and delivers high-performance infrastructures in the institutional, commercial, municipal, industrial, and real estate sectors.

Energere is a leading energy services company (ESCo) that provides innovative solutions to increase energy efficiency and reduce operating and maintenance expenses of buildings, in the institutional, industrial, commercial and municipal sectors.

The hybrid compressed air energy storage solution developed by Sigma Energy Storage resolves several issues in a number of situations. It stores the intermittent power generated by renewable energies, making it more predictable; it reduces excess diesel-generated power, cutting fuel consumption by 30%; and it provides an alternative to investing in building more electric power facilities to meet peak demand.

Ubios has designed a home automation system to control energy consumption, temperature, and most importantly, prevent water damage. With its modular platform, this system increases security, optimizes comfort and helps save on utility and insurance bills.

Vizimax develops and manufactures products to optimize the production, transportation and consumption of energy. The company helps its customers measure, control and switch equipment to meet energy sector challenges such as infrastructure durability, new technology support, renewable energy use and the optimization of existing assets.