



Energy

Oshawa's location within Durham Region, Ontario's Energy Capital, coupled with the local presence of innovative companies and relevant post-secondary programs have established Energy as a prominent economic sector in Oshawa. Oshawa continues to see the emergence of sustainable energy start-up companies. Oshawa offers direct **access** to the world's marketplace, a **talent** pipeline of college and university graduates and great business cost **value**.

Access

Oshawa is the largest municipality within the Region of Durham and the eastern gateway to the Greater Toronto Area. Oshawa businesses enjoy direct access to Canada's largest market through a connected, integrated and multi-modal transportation system.

Distance to Markets and Borders

Downtown Toronto, ON

60 km / 37 mi

Toronto Pearson International Airport

70 km / 43 mi

Queenston, ON / Lewiston, NY (border)

184 km / 114 mi

Fort Erie, ON / Buffalo, NY (border)

218 km / 136 mi

Windsor, ON / Detroit, MI (border)

424 km / 263 mi

Montreal, QC

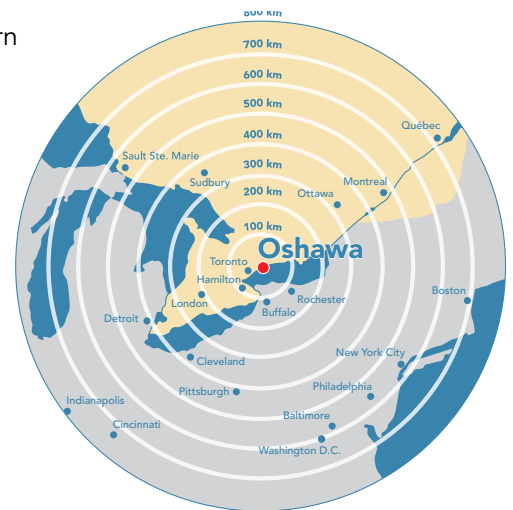
485 km / 301 mi

New York City, NY

804 km / 500 mi

Chicago, IL

865 km / 537 mi



Durham Region Educational Attainment



Total Population
Aged 25-64
349,954



College or equivalent
95,549



University
79,925



Bachelors Degree
44,415



Above Bachelors
Degree
20,833

Japanese Solar Power Pilot Project

Oshawa PUC, Panasonic Eco Solutions and Tabuchi Electric, along with the City of Oshawa, are working together on a solar power pilot project funded by the Japanese government to outfit 30 Oshawa homes with rooftop solar PV systems that will be combined with energy storage and an energy management program.

1,042
Apprenticeships
at Durham College
support the Energy
Sector (2015–2016)

Talent

Thriving business relies on skilled talent and Oshawa's talent measures up. Oshawa welcomes thousands of bright-minded students each year to three top ranking post-secondary institutions, not to mention being located within the academic powerhouse of the Greater Toronto Area with a total of 10 post-secondary institutions within a 60 minute commute.

Energy Workforce Stats [Oshawa 2014]

Description	# of Jobs
Specialty Trade Contractors	3,980
Professional, Scientific and Technical Services	3,810
Utilities	1,940
Repair and Maintenance	1050
Chemical Manufacturing	455
Heavy and Civil Engineering Construction	400
Machinery Manufacturing	360
Electrical Equipment, Appliance and Component Manufacturing	215
Total	12,210

Source: Statistics Canada, provided by the Durham Workforce Authority

Local Post-Secondary Institutions Supporting Energy Sector

The University of Ontario Institute of Technology (UOIT) – Energy Systems and Nuclear Science Research Centre (ERC) enables leading-edge research in clean and green technologies. The facility houses UOIT's educational programs and research in geothermal, hydraulics, hydrogen, natural gas, smartgrid, electrical power systems, nuclear, solar and wind energy technologies.

UOIT has announced plans for a new \$100 million Centre for Advanced Research, Innovation and Entrepreneurship (CARIE). CARIE will act as a catalyst for a new cluster of advanced manufacturing research and development in strategic industries such as nuclear, electrical and alternative energy systems, automotive and transportation, new materials and robotics.

Durham College School of Skilled Trades, Apprenticeship and Renewable Technology focuses on the energy sector and offers unique programs in a living lab environment with 350 rooftop solar panels, six vertical wind turbines and 35 geothermal wells located on the campus. Programs include a Renewable Energy Technician and Power Engineering Programs.

12,210

Labour Force in
Oshawa working in
the Energy Sector

18,425

Labour Force in Durham
Region working in the
Energy Sector

University of Ontario Institute of Technology (UOIT) Programs:

- Chemistry (B.Sc.)
- Electrical Engineering (B.Eng.)
- Health Physics and Radiation Science (B.Eng.)
- Materials Science (M.Sc., PhD.)
- Mechanical Engineering (B.Eng., M.ASc., M.Eng., PhD.)
- Modeling and Computation Science (M.Sc., PhD.)
- Nuclear Engineering (B.Eng., M.ASc., M.Eng., PhD.)
- Nuclear Technology (GDip)
- Physics (B.Sc.)

Durham College Programs:

- Construction Carpentry – Sustainable
- Energy Systems Engineering Technology
- Renewable Energy Technician

Talent Recruitment

Resources are available to assist companies accessing skilled professionals – from candidate pre-screening, job fairs, links to specialized training and training cost incentives.

Value

Oshawa companies enjoy the benefits associated with doing business in Ontario, Canada. Canada offers a lower cost environment for Energy companies than the USA, Germany, Italy, Australia or Japan, according to KPMG's Competitive Alternatives 2014. Canada has been globally recognized for its stable and sound banking system. Locally, Oshawa offers development incentives, affordable real estate and business-friendly services.

Incentives for Growth

- Apprenticeship Job Creation Tax Credit (AJCTC)
- Conservation Fund
- Feed-in Tariff Program (FIT) – Ontario Power Authority
- Industrial Research Assistance Program (IRAP)
- Innovation Demonstration Fund
- Scientific Research & Experimental Development (SR & ED)
- Sustainable Development Technology Canada – NextGen Biofuels Fund

Oshawa Companies	Durham Region Companies
Enbridge Inc.	Aecon Group Inc.
En-Pro International	Areva Canada
EV Fern	Black and McDonald
GDS Technologies	Durham-York Energy Centre
H2O Power	Eco-Tec
Just Energy	Hydro One
Lakeridge Precision	Intellimeter Canada Inc.
Ontario Power Generation (OPG)	Siemens Canada
Oshawa PUC Networks	Veridian Corporation



Business Testimonial Spark Commercialization and Innovation Centre

The City of Oshawa is an exceptional place where innovation meets start-up entrepreneurship. In the last 12 months Spark Centre, working closely with the City, has built a start-up ecosystem centre which houses over 30 innovative companies, and has seen over 150 companies visit. The City of Oshawa provides all the resources for new companies to start grow and succeed including knowledgeable professionals, access to a talented employment base, a deep post secondary student base, and a municipal structure focused on rapid business approaches.

Dennis Croft

President and CEO
Spark Centre

www.sparkcentre.org





The Clean Energy Research Laboratory (CERL) is a world-class facility. As part of the Faculty of Engineering and Applied Science, CERL is a cutting-edge laboratory that will pioneer clean energy research and potentially uncover major solutions to the problem of climate change. CERL's mission is to develop clean energy technologies and move them from laboratory to commercial and industrial application. <http://cerl.uoit.ca>



Within a one hour commute, the City of Toronto has a labour force of over **3 million** people with **201,000** people working in the Energy Sector.



Connect With Us...

Oshawa's Economic Development Office provides information and services to help business grow and prosper. From real estate professionals and site selectors to business owners both large and small, our team can help facilitate your project and expedite the site selection process.


Whether you are just starting out, expanding, consolidating or relocating your company, you can rely on our team of professionals to help make your decisions easier, faster and more effective. We have the connections to help you with:

- site location assistance
- information and statistics
- streamlining the development approvals process
- business problem-solving
- business and community contacts
- industry and business networks
- access to community improvement incentives

We know that each client is unique and we tailor our services to meet your specific business needs.

Economic Development Services

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Oshawa's 5 Key Sectors

