

waterpower

Ontario's Primary Source of Renewable Energy

Today, Ontario's waterpower resources comprise about a quarter of the province's energy supply and 90% of Ontario's renewable energy supply – with an installed capacity of almost 9,000 MW.



A Key to Keeping Electricity Affordable

- Ontario's existing facilities moderate provincial electricity prices.
- Across Canada, the larger the percentage of electricity that comes from waterpower, the lower the residential price.
- Waterpower's durability means future generations will benefit from affordable waterpower, as we do today.

An Energy-efficient Source of Electricity

- The average facility converts kinetic energy to electric energy at a rate of between 75% and 95%.
- A typical waterpower generating facility has a long life cycle of between 75 and 100 years.
- The average energy payback ratio (energy required vs. energy produced) is by far the highest among all sources.

Realizing the Potential for Clean, Renewable Waterpower

- An inventory of waterpower potential in Ontario identified 2,000 sites with basic hydraulic conditions (regularly flowing water and change in elevation) to produce waterpower energy.
- More than 210 sites are in production.
- Distance to the transmission grid, other natural resource values, and the demand for renewable energy are important factors in realizing waterpower potential.

Sustainable Energy: An Asset for the Future

- Like other natural resources, Ontario's waterpower resources must be managed and developed to meet present needs and the requirements of future generations.
- The waterpower potential that remains in Ontario should be treated as an asset that can continue to contribute energy, now and in the future.
- Acknowledging and protecting this potential will increase our energy options for the future.



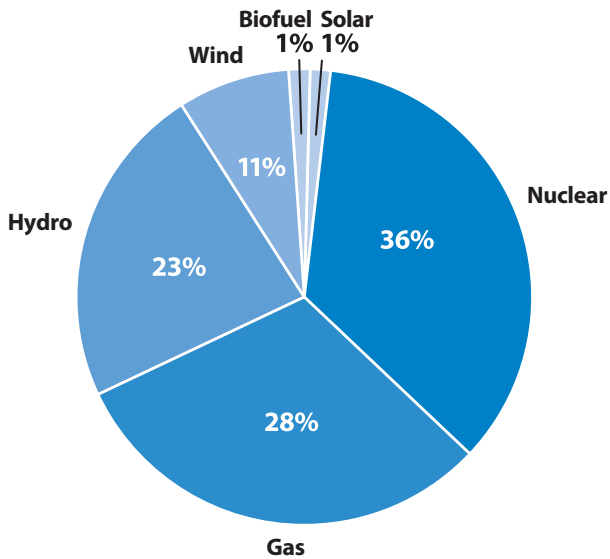
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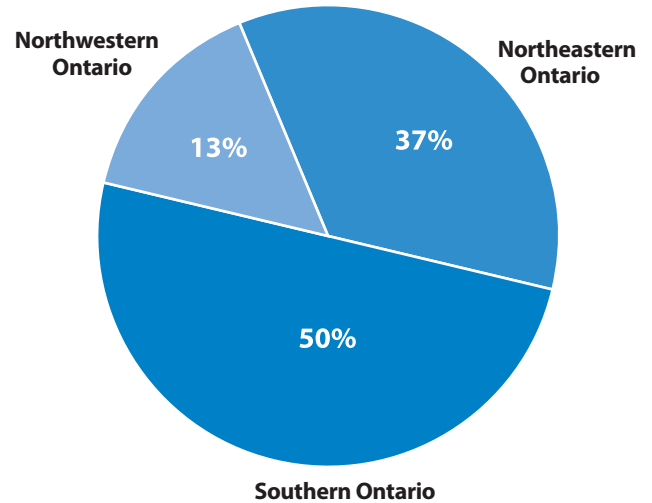
Ontario Waterpower Facts

Energy Supply

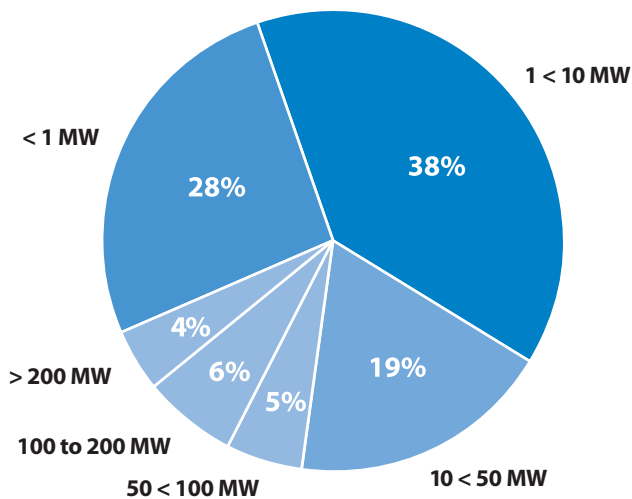


*IESO Generating resources as of November 27, 2014. Note: Most solar facilities in Ontario are currently connected to the distribution system. Several grid-connected solar facilities are commissioning (injecting energy into the grid) and will become fully in-service in 2015.

Waterpower Facility Location



Facility by Capacity



Waterpower Facilities: Years in Production

