



Fact Sheet | Goreway Power Station

Facility Details

Location: Ontario, Canada

Year Commissioned: 2009

Owned/Operated: 100/100

Located in Brampton, Ontario, the Goreway Power Station is an 875 MW natural gas fueled, combined cycle facility. The facility can provide electricity to Ontario's power grid 24 hours per day, 7 days per week, but primarily operates during intermediate and peak demand periods. Capital Power acquired Goreway Power Station in June 2019 from Goreway Power Station Holdings Inc., which is jointly owned by JERA Co. Inc., and Toyota Tsusho Corporation. The facility has a 20-year Accelerated Clean Energy Supply Contract expiring in June 2029 with the Ontario Independent Electricity System Operator (IESO).

Quick Facts

State-of-the-art emission controls

- By combining the best qualities of clean-burning natural gas with state-of-the-art emission controls, such as Selective Catalytic Reduction (SCR) to reduce smog-forming NOx emissions, the facility's stack emissions are well below regulatory requirements and only a small fraction of the emission rates of existing coal-fired power plants
 - NOx emissions are considerably less than 8.5% of the allowable limit
 - CO₂ emissions are considerably less than one third of the allowable limit
 - SO₂ emissions are less than 1% of the allowable limit

Noise control

- More than \$10 million invested in noise abatement equipment and building layout design to reduce or eliminate typical noise associated with electricity generation
- Noise emissions were extensively modeled and validated to confirm compliance with the Ontario Ministry of Environment and Climate Change (MOECC) Environmental Compliance Approval (ECA)

Fuel Type(s)



Natural Gas

Owned Capacity

875 MW

Water use

- Steam exhausted from the facility's steam turbine is directed to a dry air-cooled condenser (ACC), where it is condensed and recycled back to the heat recovery boilers as feedwater and therefore using less than 5% make-up

Biodiversity and habitat stewardship

- Facility's design and site layout were developed with careful attention to ensure existing natural habitats are preserved (only 21% of the 20-hectare site developed)
- Buildings and support facilities are situated to avoid impact to Mimico Creek and its floodplain area that crosses the westerly section of the property
- Facility's setback from Goreway Drive preserves the existing natural area along the easterly portion of the site with trees, wetland, meadow and stream
- To augment the site's existing natural features and to provide additional visual screening, additional features have been introduced across the site including a storm water management pond, berms, a variety of plants, shrubs and tree plantings

Community Investment

At Capital Power, we contribute to the communities in which we operate with the aim of building a sustainable future for all. We engage our neighbours, consider their interests and build real relationships. We aim to source supplies and services locally for our operations, as well as hire from the community. At Goreway Power Station:

- We pay approximately \$1,000,000 in property tax each year, contributing annually to community tax bases, supporting the improvement of infrastructure, roadways, and community services.

We give back where we live and work by supporting local organizations and our employees' community participation through our corporate giving programs.