



## Fact Sheet | Genesee Generating Station Units 1 & 2

### Facility Details

**Location:** Alberta, Canada

**Year Commissioned:** Unit 1 - 1994, Unit 2 - 1989

**Owned/Operated:** 100/100

Located west of Edmonton near Warburg, AB, the Genesee Generating Station consists of Units 1, 2 and 3 which provide over 1,300 MW of baseload generation. Genesee Units 1 & 2 and Genesee Unit 3 are undergoing repowering and coal-to-gas transformations respectively to move off-coal in 2023 and provide Responsible Energy for Tomorrow.

Subject to regulatory approval, Genesee Units 1 and 2 will be repowered to utilize best-in-class natural gas combined cycle (NGCC) technology, positioning them to be the most efficient NGCC units in Canada when complete. The two repowered units will provide an additional 560 megawatts of net capacity totalling 1,360 MW. The units will also be carbon conversion ready and 30% hydrogen ready when repowering is completed and upgradable to 95% hydrogen ready in the future.

### Quick Facts

- Excellent operating history and high availability
- Units regularly run at or near full production capacity
- We're maximizing the flexibility of the units to utilize both natural gas and coal as fuel, which reduces emissions and increases flexibility to respond to market conditions

Pending a successful outcome of the regulatory review, we expect construction to begin in August 2021, with an anticipated in-service date in late 2023 for the repowered Genesee Unit 1 and 2024 for Genesee Unit 2. Units will be converted to run in simple cycle mode before the expected completion of the repowering of each unit.

**For more information about the repowering of Genesee Units 1 & 2, visit [capitalpower.com/repowering](https://capitalpower.com/repowering)**

"Genesee Generating Station consists of some of Alberta's youngest and most efficient thermal generations units. This reliable facility supports the Alberta energy market with baseload power supply and contributes to the economic well-being of the community it operates in. Repowering to best-in-class natural gas units will reduce emissions by 3.4 million tonnes per year and continue to deliver responsible energy for our future."

**Sean Furey, VP, Solid Fuels**

### Fuel Type(s)



Natural Gas



Coal

### Owned Capacity

**860 MW**

### Community Investment and Involvement

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 the Genesee Generating Station:

- We employ more than 200 permanent employees.
- We pay approximately \$5,986,000 in property and linear 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.

### Recent community giving:

- Pioneer Agricultural Society Heritage Day
- Community Easter Egg Hunt
- Family and Community Support Services (FCSS) – Volunteer appreciation; Seniors Week; Summer Programs
- Light Up Warburg
- Thorsby Jr / Sr High School Rodeo
- Leduc County's Genesee Park
- Warburg School
- Warburg Family Halloween Dance
- Thorsby & District Malanka Festival
- Warburg Community BBQ and Chili Cook Off