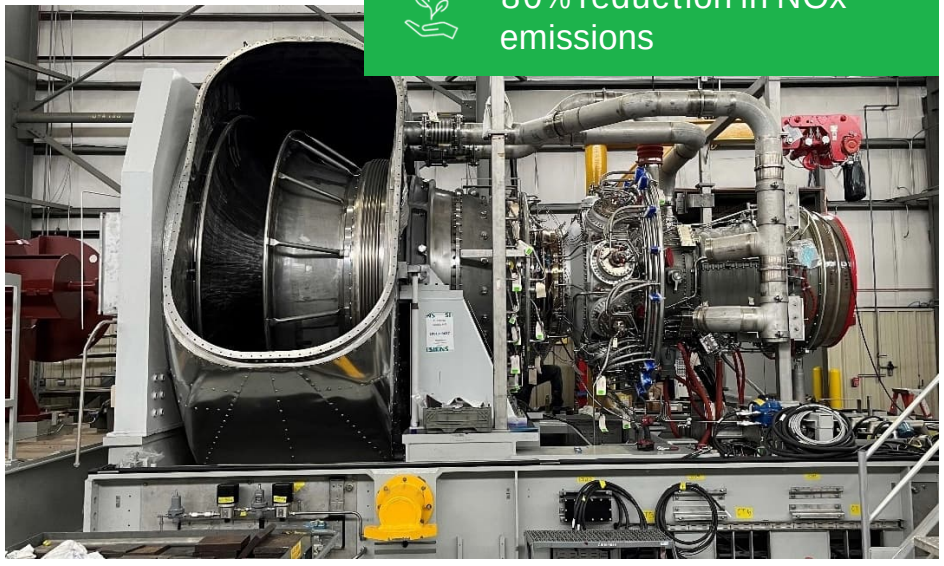
OGT-A35 operates on methanol with 80% less NOx emissions in Aberdeen.



80% reduction in NOx emissions

Project type

Methanol Testing

Fuel shift hybridization | Partnership | Gas turbine | Fuel

Customer Challenge/Driver

To reduce greenhouse gas emissions and achieve net-zero targets, there is an urgent need for sustainable alternatives to traditional fossil fuels in power generation. The Net Zero Technology Centre and Omterra, have demonstrated the viability of methanol as a low-emission fuel in gas turbines, thereby furthering the transition to cleaner energy sources.

Portfolio Elements/Scope

- Omterra utilized 3D printing to produce new components for the OGT-A35 needed for methanol fuel conversion, showing the feasibility of retrofitting existing gas turbines for decarbonized operations.

Customer Benefit

- Proven 80% reduction in NOx emissions compared to other conventional liquid fuels
- Up-to 95% CO_2 reduction
- Enhanced turbine performance, with a power increase of at least 10% when running on methanol, thus providing more energy output
- Ongoing collaboration with the Net Zero Technology Centre to demonstrate the emissions reduction of methanol as a fuel supplied by Proman.

Read More

omterra