
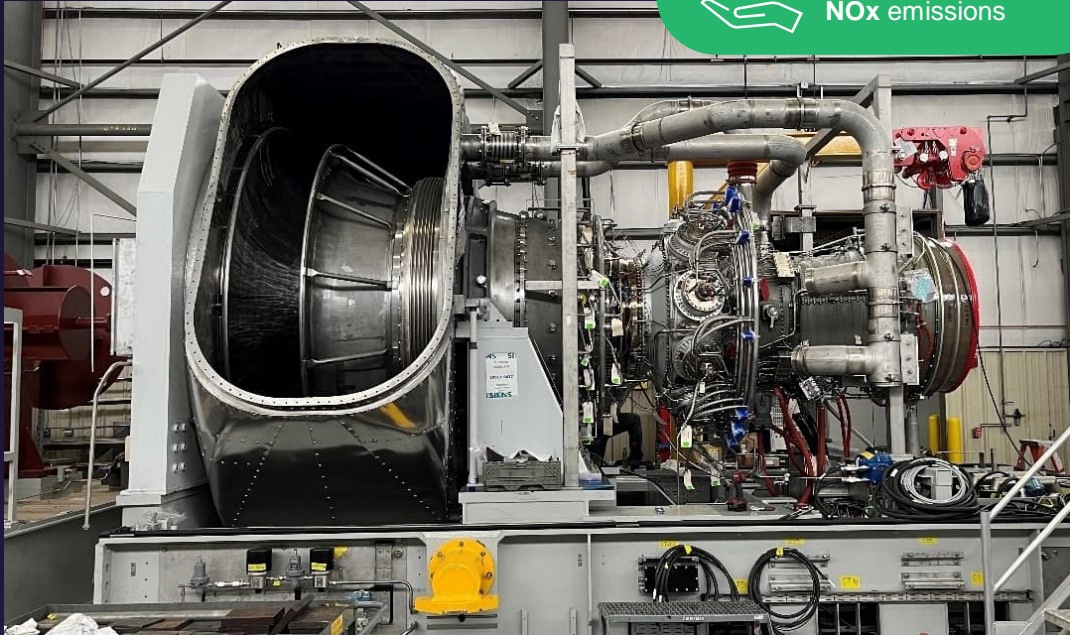


SGT-A35 operates on methanol with 80% less NOx emissions in Aberdeen



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 **Siemens Energy**, 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

- **Siemens Energy** utilized **3D printing** to produce **new components** for the **SGT-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% CO₂ 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.

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