



OPFLEX* STEAM TURBINE AGILITY

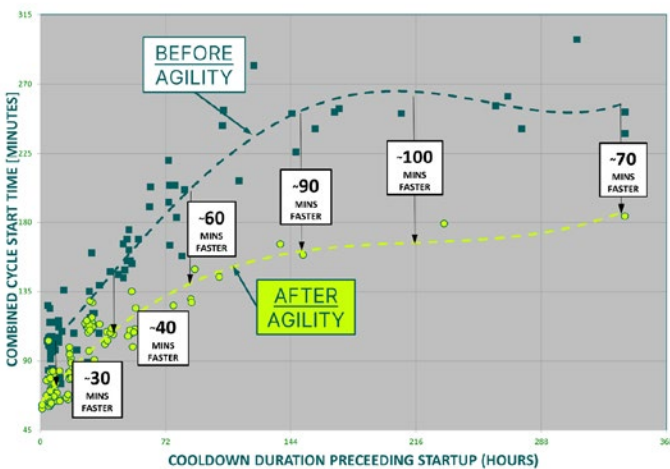
A start-up solution for combined cycle plants

Opflex* Steam Turbine AGILITY is a streamlined system solution that improves startup efficiency in combined cycle power plants through collaboration with plant operators. It leverages innovative control modules and modern steam turbine control features to address real-world challenges, transforming generic operational logic into tailored strategies for managing startup life consumption, lowering startup costs, and reducing transient emissions. AGILITY increases automation, standardizes startup processes thereby reducing manual variability, and aims to lower transient CO and NOx emissions while reducing startup costs and managing life consumption.

Key Features†

- Tuned auto start schedules
- Customized rotor stress targets
- Improved steam turbine roll permissives
- Use of interstage attemperators during daily starts
- “Flex hot start”

† Control system limitations may apply



Key Benefits

- **Availability/Reliability** – improved startup reliability. Reduces potential for missing generation during peak periods.
- **Efficiency** – less fuel consumption during each startup. Up to \$9,000 in fuel savings per start.
- **Flexibility** - faster hot, warm, & cold start times. Up to 57% reduction in startup time. Potentially improve your position in the merit order
- **Transient Emission** – reduced by up to 35% on NOx & CO annually.
- **Predictability** – limited start time variation. More predictable & repeatable combined cycle start times.
- **Reliability/Lifecycle Optimization** – Improved balance between startup time and steam turbine rotor life, helping support both operational performance and long-term equipment reliability.
- **Workforce Capability** – Significant increase in operations staff knowledge, improving decision-making and startup execution.

Proven Technology

- 25 installations since 2008, 2 planned (*26)
- 50Hz & 60Hz, 1×1, 2×1, 3×1, OEM power plants
- 4.7k+ Combined Cycle start-up hours saved
- \$15M+ customer fuel saved

Up to 57% Saved start time
1-2 Year Payback since 2008

To learn more about this offering, contact your GE Vernova sales representative or visit governova.com/gas-power/services/steam-turbines/upgrades/flexibility.

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