



Efficient, flexible, modular NovaLT12 gas turbine

NovaLT™12 from Baker Hughes, a GE company (BHGE), pushes the boundaries of the Nova family to a new level. It's designed for the highest efficiency and availability—and outshines market peers in total cost of ownership.

The standard model delivers 12.6 MW, while there will be design options for power requirements from 10.5 MW to 13.9 MW.

It draws on key design features from our widely referenced heavy-duty gas turbines, as well as the more recent NovaLT16 and NovaLT5 units. In particular, the standardization and modularization factors established by our highly successful NovaLT development program significantly reduce customized engineering needs, which means our delivery time is faster—and so is your time to first revenue.

Innovation and co-creation

Success of the NovaLT turbine family is rooted in FastWorks, an entrepreneurial approach to efficient resource allocation and speed to market.

The first NovaLT design also involved a lot of customer collaboration from the beginning, so the entire family is rooted in practical in-field requirements.

NovaLT turbines also draw on the unique advantages of GE Store, that contain proven technologies and designs from across the entire GE organization, including BHGE, Aviation, Energy, and Global Research Centers.

Key specifications

These values are for mechanical drive with natural gas, liquid fuel, or dual fuel. Power and efficiency values for generator terminals are available on request.

Power output	12.6 MW*
Efficiency @ full load	36.5%
Efficiency @ 70% load	32%
LP shaft rated speed	8,900 rpm
NOx emissions	15 ppm
DLN turndown	50% or better
Engine swap	24 hours
MTBM	35 kh
Availability	98.6%

* Will include design options for different power needs from 10.5 MW to 13.9 MW

Features and benefits

- Simplified engine architecture and maintenance through optimization of purging and cooling
- Increased operating flexibility with inner and outer baffle redesign for more tunable dynamic behavior
- Increased efficiency with new HPT end-wall contouring
- Improved manufacturing time and consistency by using standardized parts common to NovaLT16 (e.g. brgs, bolts, NGV system)—leading to shorter delivery time

Key applications

- Oil and gas midstream
- Mechanical drive
- Power generation

EXW cycle: 36 weeks

Installation: 8 weeks

Retrofittable: Fr3, GE10, PGT10



NovaLT12 NovaLT16

Highest efficiency in its power range—with a 12% smaller footprint than the NovaLT16 gas turbine



Modular platform strategy

Design flexibility

Our NovaLT platform consists of various modular components that can be swapped in or out depending on the application and turbine size. The pre-designed package can therefore accommodate three different turbine sizes (5, 12, 16 MW) with minimal engineering work.

Uniform speed and quality

Regardless of turbine size, customers in any application benefit from NovaLT's fleet-wide experience and upgrades, use of proven technologies, as well as standardized installation and maintenance practices.

Forward thinking

From the engine to the entire package, choosing a NovaLT product means that you can easily take advantage of future upgrades and advanced technology injection.

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