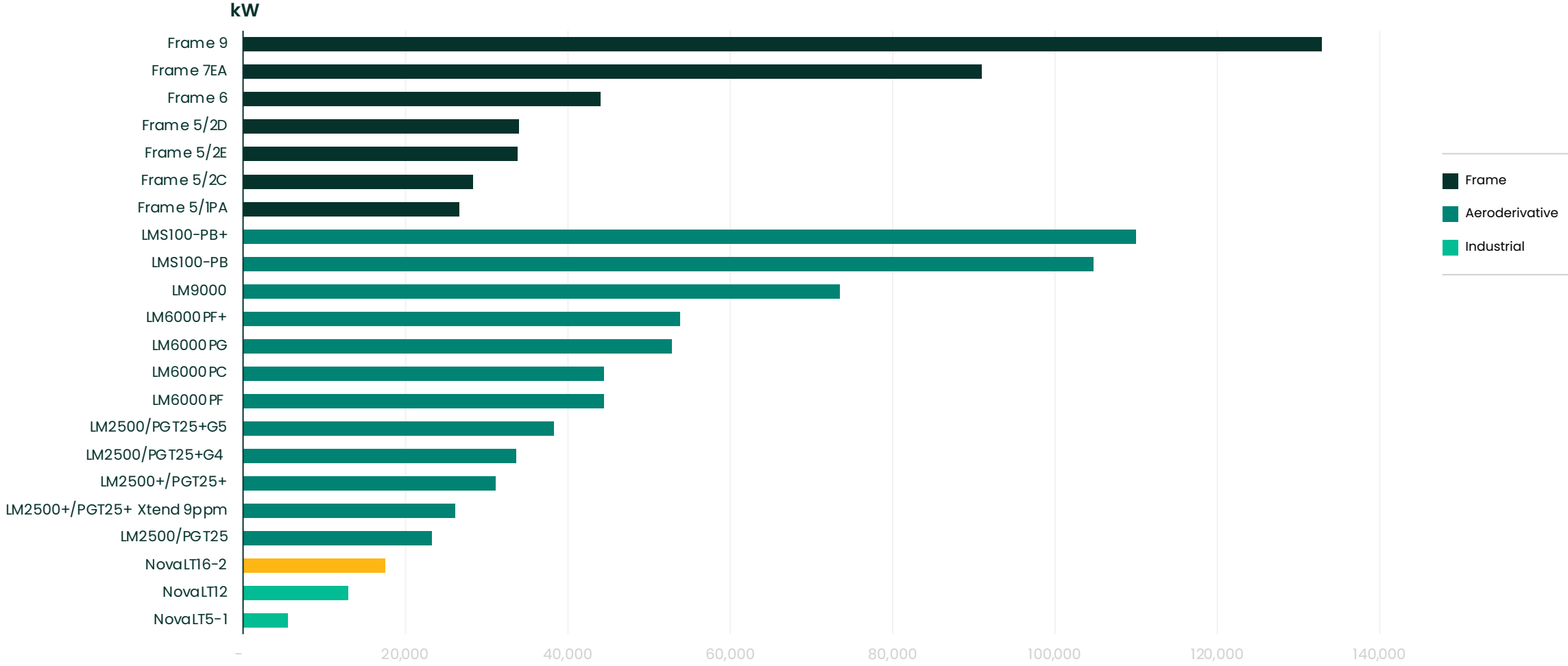


# NovaLT16 gas turbine (17.5 MW, 50/60 Hz)

High efficiency and availability with  
low total cost in power generation  
and mechanical drive

# Industry leader in gas turbine technology



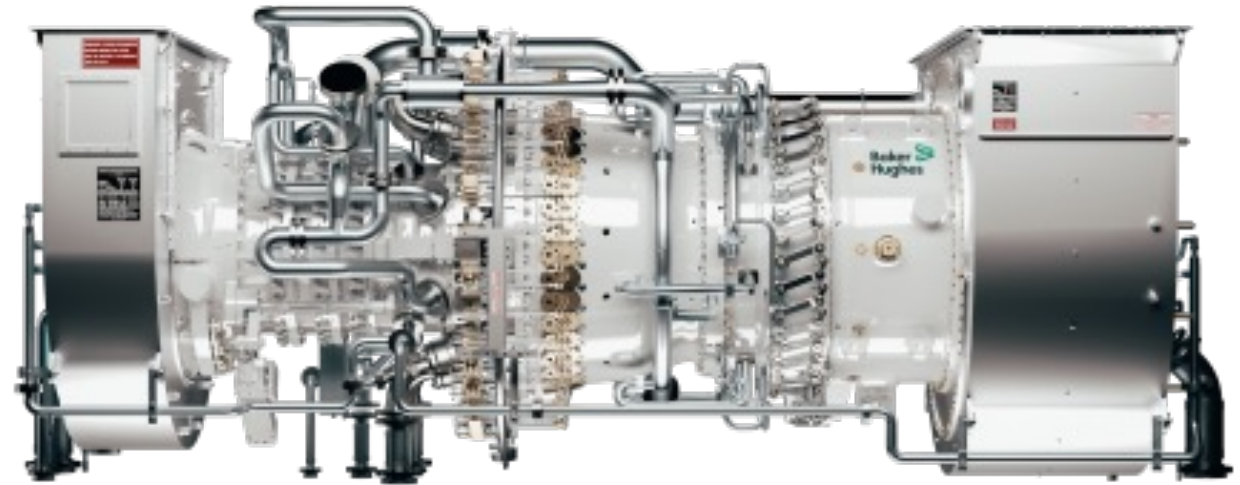
# NovaLT16

Maximum availability and lowest total cost

NovaLT™16 combines innovation with the best technology of our gas turbine experience, with more than 900 units installed and ~80 million fleet hours.

Designed to minimize environmental impact, the combustion system is capable of reducing CO<sub>2</sub> and NO<sub>x</sub> emissions down to 15 ppm—and single-digit NO<sub>x</sub> emissions are available on request.

The engine architecture is equipped with variable nozzle guide vanes, which eliminates bleeding and enables the highest efficiency at part load, reducing CO<sub>2</sub> footprint.

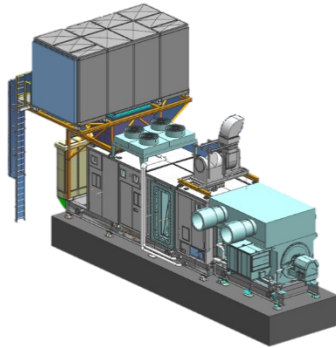


## Key features

- 37.5% efficiency in mechanical drive; up to 84% thermal efficiency in combined heat and power
- Flexible operation to 50% of rated speed; ideal in mechanical drive—can start with fully pressurized compressor
- 35,000 hours maintenance interval drives lower costs—automapping eliminates seasonal DLN tuning and intermediate boroscopic inspections

# Package

## Power generation



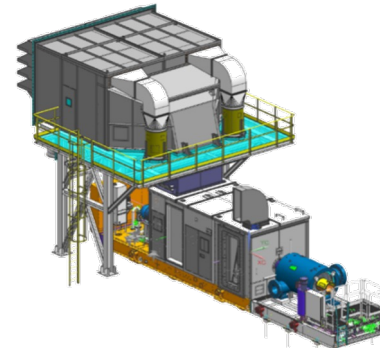
### Main skids

- Gas turbine and main auxiliary systems
- Electric generator and gearbox
  - Total footprint: 15.62 x 3.15 m
  - Total weight: GT skid + EG skid: 134.2 tons

### Upper deck

- Filter house, ventilation system, and ducting
- Negative pressure ventilation: 1 x 100% fan

## Mechanical drive



### Main skids

- Gas turbine and main auxiliary systems
- Centrifugal compressor and seal gas panel
  - Total footprint: 18.2 x 3.15 m

### Upper deck

- Filter house, ventilation system, and ducting
- Positive pressure ventilation:
  - 2 x 100% AC motor-driven axial fans
  - (1 main + 1 standby)

## Applications

- Onshore and offshore
- Pipeline, gas storage
- Industrial, and combined heat and power
- Referenced in:
  - Extreme environments (artic and desert)
  - Single and dual fuel
  - Pipeline, industrial power generation, gas compression

## Fast installation and commissioning

- Single-lift package
- Train loop-checks and flushing performed at factory (with UCS job software)
- Shipping standard
- Multi-skills on site



# Datasheet

## Power generation

<b>Power</b>	MWe	16.9
<b>Efficiency</b>	%	36.4
<b>NOx</b>	ppm	15*
<b>Exhaust</b>	°C	495
<b>Speed</b>	RPM	7,800

## Mechanical drive

<b>Power</b>	MWe	17.5
<b>Efficiency</b>	%	37.4
<b>NOx</b>	ppm	15*
<b>Exhaust</b>	°C	495
<b>Speed</b>	RPM	7,800

## Package—power gen

<b>LxWxH</b>	m	15.62x3.15x9.52
<b>Weight</b>	tons	134

## Package—mech drive

<b>LxWxH</b>	m	12.5x3.15x4.1
<b>Weight</b>	tons	52.9

- Single annular combustor technology
- Dry low emission combustion system, capable of <15 ppm NOx at 15% O<sub>2</sub>, from 50% to 100% load (9ppm NOx available)
- Max availability: engine swap in 3 days, no intermediate boroscopic inspections
- No seasonal DLN tuning: initial DLN tuning during commissioning (90% shorter than traditional system) and on a four-year basis thereafter (via remote connection)
- No need for gas composition analysis system
- Gas only and dual fuel (gas + liquid) capability
- 44–57 MWI fuel flexibility, experience recorded outside these limits
- Up to 100% vol H<sub>2</sub> capability, tested on combustion chamber

## Main inspections

<b>HGP</b>	hrs	35,000
<b>Major insp.</b>	hrs	70,000

\* 9ppm upon request

ISO conditions with natural gas fuel, ambient temperature 15°C, no inlet or exhaust losses, sea level, 60% relative humidity.  
Mechanical Package dimensions driven equipment excluded.