

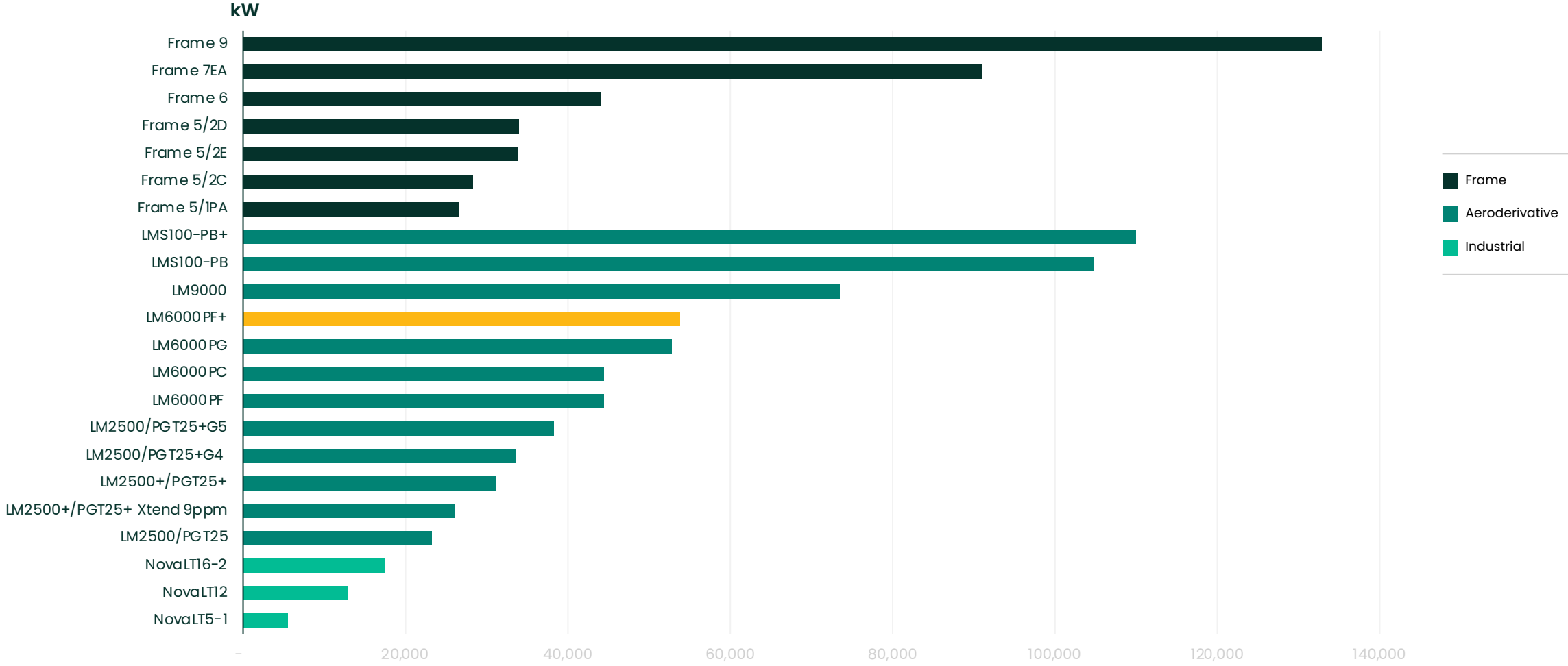
# LM6000PF+ aeroderivative gas turbine

30-year heritage of success  
and lowest cost per kW



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# Industry leader in gas turbine technology



# LM6000PF+

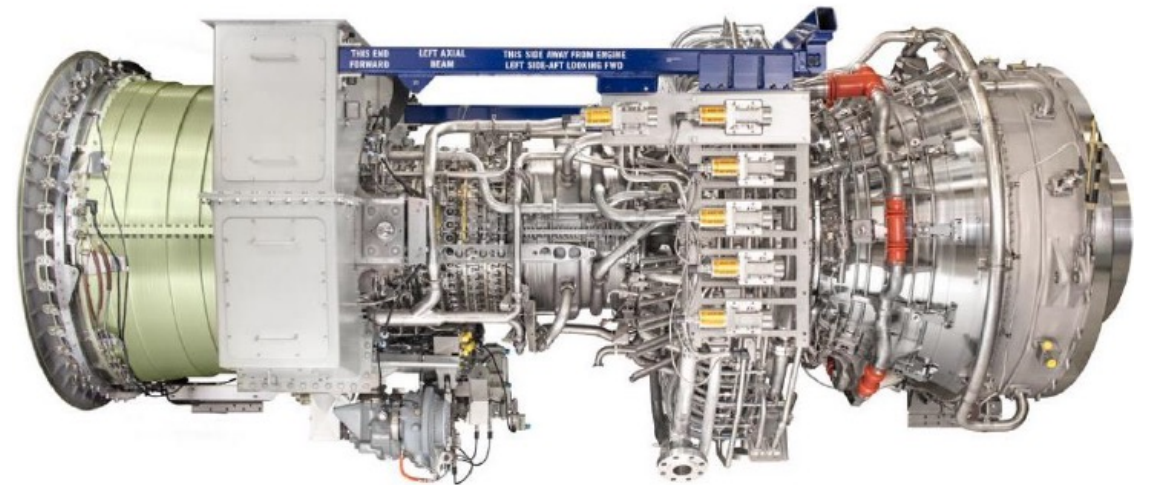
High performance, flexibility and best cost per kW in its power class

With a long, successful history, the LM6000PF+ aeroderivative gas turbine combines our latest innovations with the best proven technologies and operating experience from more than 5,000 aircraft engines with over 450 million flight hours, and over 1,300 LM6000 units with 40+ million operating hours in the last 30 years.

With 53.8 MW shaft power and over 42% simple-cycle efficiency, this turbine can quickly ramp up and down to match demanding operating requirements.

## Key features

- Double co-axial shafts for loaded startup capability
- Compressor has 5 low-pressure and 14 high-pressure stages for outstanding efficiency, and adjustable vanes for best operating flexibility
- Well-proven dry low emissions (DLE 1.5) combustion system
- 2-stage high-pressure turbine and 5-stage low-pressure turbine with optimized airfoils for high efficiency and reduced CO<sub>2</sub> emissions

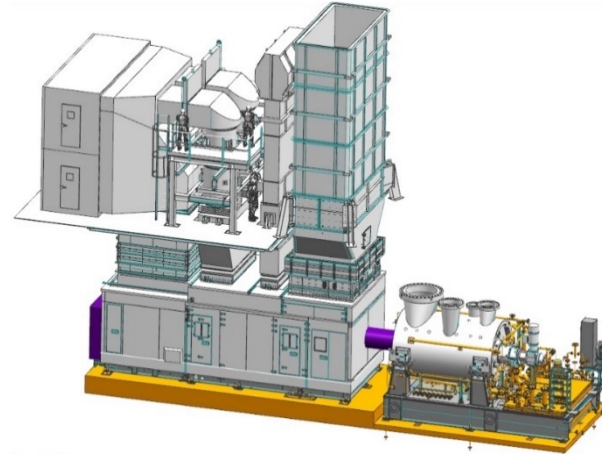




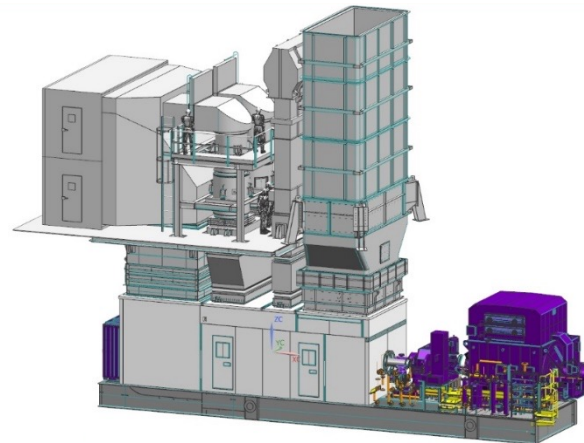
# Package

## Onshore and offshore solutions

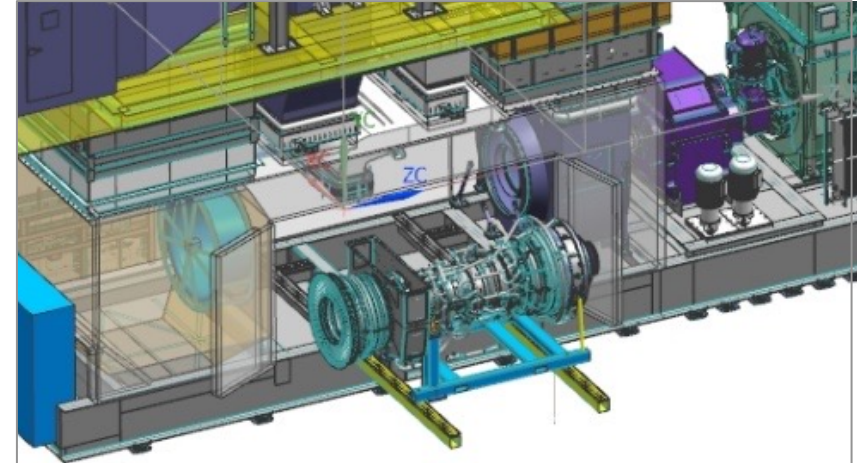
- Optimized slide-off turbine design with mini-skid concept for engine swap in less than 24 hours for maximized availability
- Multipoint AVM for lightweight single-lift design and uniformly distributed load
- Remote I/O panel available
- Aerosol fire-protection system to minimize footprint and weight by eliminating interconnecting piping and cables



Onshore mechanical drive



Offshore single-lift power generation



Mini-skid for engine swap

# LM6000 PF+ datasheet

## Mechanical drive

<b>Power</b>	MW	53.8
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<b>Efficiency</b>	%	42
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<b>NOx</b>	ppm	25
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<b>Exhaust</b>	°C	498
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<b>Speed</b>	rpm	3,930
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## Power generation

<b>Power</b>	MWe	52.5
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<b>Efficiency</b>	%	41
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<b>NOx</b>	ppm	25
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<b>Exhaust</b>	°C	496
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<b>Speed</b>	rpm	3,930
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## Single-lift power generation package

<b>LxWxH</b>	m	20x5
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<b>Weight</b>	ton	280
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## Gas turbine package

<b>LxWxH</b>	m	12x4.8
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<b>Weight</b>	ton	160
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## Main inspections

<b>HGP</b>	hr	25,000
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<b>Major insp.</b>	hr	50,000
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## Capability highlights

- Ideal for LNG mechanical drive application thanks to start-up capability with pressurized LNG compressor, without helper motor assistance
- Reduced CO<sub>2</sub> emissions thanks to the high simple-cycle efficiency
- Dry low emission (DLE 1.5) technology fore less than 25 ppm NOx emissions at 75% to 100% load
- 40 to 60 MWI fuel flexibility with more than 10%/min rate of change
- Experienced burning 9% vol H<sub>2</sub>



DLE technology

# Projects

## LNG mechanical drive



Australia

## Petrochemical power generation



South Korea