

## Flexible, efficient and fast

The AE94.2 gas turbine is a benchmark for both operational and fuel flexibility.

It is designed to manage nonconventional fuels (naphtha, crude and heavy fuel oil, low BTU gases, hydrogen rich fuels, coal gases, dwell gases, etc.).

The AE94.2 is also fast, reaching baseload condition in less than 15 minutes and with a fast load ramp that makes it suitable for grid support and peak plants as well.

## Environmental sustainable

The Minimum Environmental Load has been reduced keeping NOx and CO emissions well below current legal limits. Dry Low NOx combustion available for both gas and oil mode results in no need of water injection under any operating conditions, with high benefits for Customer as to energy saving and Environment.

## Smart maintenance approach

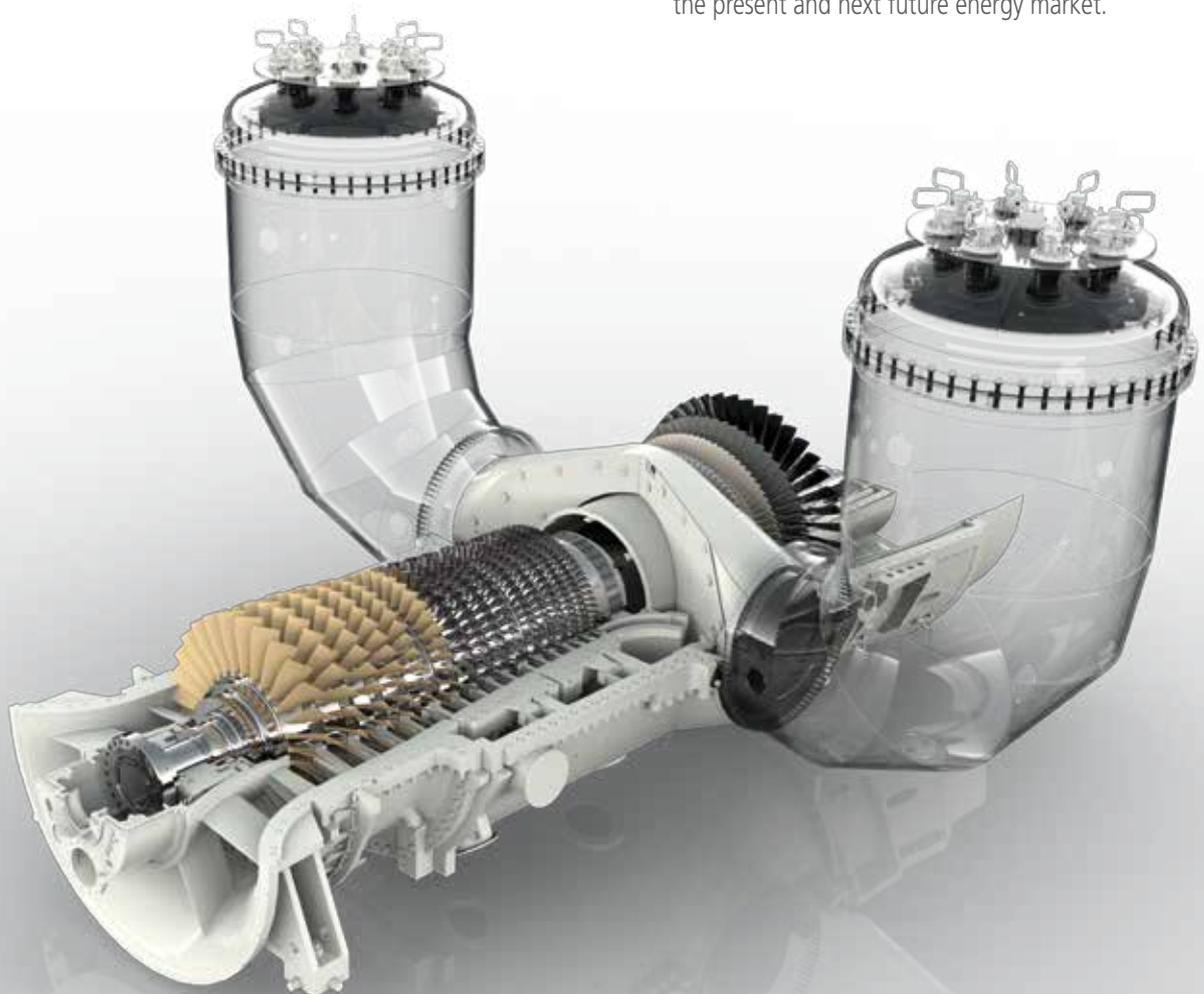
The extended 41 kEOH inspection intervals for hot gas path components, the possibility to replace vanes and blades with rotor in place, the immediate accessibility into the combustion chambers for checks and repairs maximize the availability ensuring the best revenues for the Customer.

Ansaldo Energia offers a full and flexible range of service solutions for maintenance and upgrades where Customers can surely find the best solution to fit their needs.

## Well proven technology

With more than 100 units installed worldwide and 7 millions of operating hours cumulated through different fuels and load regimes, the AE94.2 shows excellent record of robustness, operational reliability and durability.

Continuous product improvements aimed at enhancing performance and minimizing maintenance costs, demonstrate that there are still roles to play for AE94.2 in the present and next future energy market.



## AE94.2 Performance

Natural gas, ISO conditions		
Power Output	MW	190
Efficiency	%	36.3
Exhaust Mass Flow	kg/s	555
Exhaust Temperature	°C	550
GT Minimum Load	%	40
NOx Emissions	mg/Nm <sup>3</sup>	≤ 50
CO Emissions	mg/Nm <sup>3</sup>	≤ 30
Loading Rate	MW/min	30
Grid Support	MW/min	up to 80

Power Plant Configuration		1+1	2+1
CC Net Output	MW	287	578
CC Net Efficiency	%	55.8	56.2
CC Net Heat Rate	kJ/kWh	6,450	6,405
Plant Turndown - Minimum Load	%	45	25

**General note:** Performance data are calculated with 100% methane (LHV) at ISO conditions, direct cooling.

## Worldwide references: decades of experience

The fleet of AE94.2 has an excellent track record of availability, operational flexibility and durability.



**> 7,200,000 Cumulated EOH**

**Africa:** Algeria; Congo; Egypt; South Africa.

**America:** Chile.

**Asia:** Bangladesh; China; India; Pakistan, Indonesia.

**Europe:** Finland; Italy; Poland; United Kingdom.

**Middle East:** Iran; Jordan; Lebanon; Oman; UAE.

**116 Units**  
(5 Units 94.2K)  
79 in Open Cycle  
37 in Combined Cycle

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