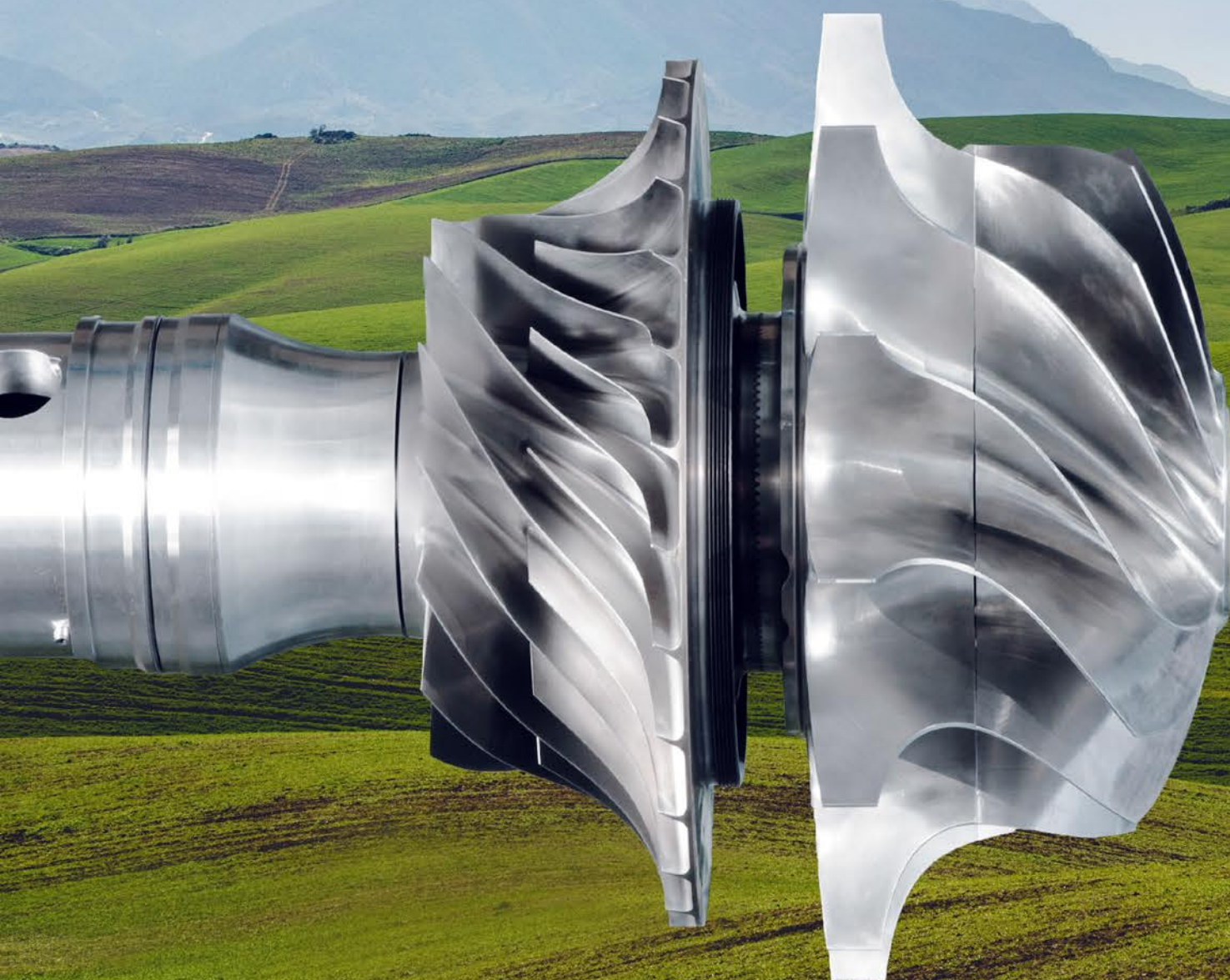


Driving the world's energy transition

Optimal Radial Gas Turbine



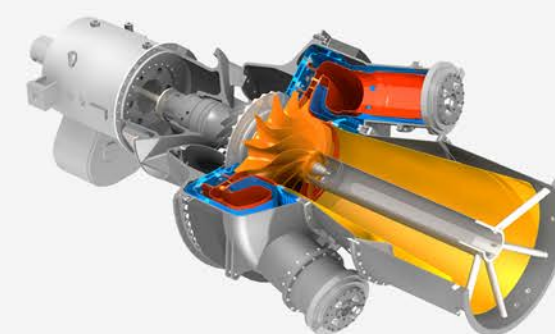
opraturbines.com

The OP16 Gas Turbine Sophisticated Simplicity

The 1.8 MW OP16 gas turbine has an industrial, all-radial design which provides robustness, reliability, highest efficiency, and low emissions.

OPRA Turbines can deliver distributed energy solutions from alternative fuel sources which are well suited for a variety of industries including Oil & Gas, Industrial & Commercial, Waste to Power, and Marine. Dual fuel and off-specification fuel options are available.

OPRA Turbines continues to drive the world's energy transition with over 130 gas turbine generator sets worldwide accumulating over 2 million operating hours.



OPRA Turbines was founded by Jan and Hiroko Mowill in 1991. Jan Mowill had previously led the gas turbine division at a major Norwegian industrial conglomerate where he developed and commercialized the world's first radial gas turbine engine for industrial applications in 1964. OPRA Turbines sold its first commercialized gas turbine package in 2005. In 2017 OPRA Turbines opened a new state of the art headquarter facility in Hengelo (NL) to further strengthen and increase production capacity following recent growth in business.

Dalian Energas

Since August 2017, OPRA Turbines has been fully acquired by Dalian Energas and now is a proud member of the Dalian Energas group. Dalian Energas is an international leading company operating on a global level providing natural gas solutions. They hold a primary position in the gas power generation industry and gas supply system market, and carry worldwide the mission of key equipment localization in the gas power generation field.



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Oil & Gas

- › Flare gas
- › Upstream
- › Onshore in remote sites
- › Offshore platforms
- › Midstream
- › Pipelines and oil tankers
- › Downstream
- › Refineries
- › FPSO's



Industrial & Commercial

- › Pulp & paper
- › Food processing
- › Ceramic
- › Chemical
- › Rubber
- › Gypsum
- › Hospitals
- › Hotels
- › Universities
- › Shopping centers
- › Pharmaceutical
- › Data centers



Waste to Power

- › Biogas
- › Syngas
- › Pyrolysis oil
- › Industrial off-gases
- › Ammonia plants
- › Fertilizer plants
- › Methanol plants
- › VOC utilization
- › Landfills



Marine

- › Tankers
- › VOCs
- › Military
- › On-board power
- › Cruise ships



OP16's Key Strengths

Fuel Flexibility

- › Low fuel gas pressure required
- › Low emission combustors available
- › Low BTU fuel gases possible

Robust Design

- › All radial design
- › Overhaul only after 40,000 hours
- › Bearings located in the cold section
- › Easily accessible combustors

High CHP Capability

- › High exhaust temperature
- › High heat to power ratio
- › Oil-free exhaust flow guaranteed

Small Footprint

- › Easy installation (2 x 20 ft containers)
- › Compact and low weight
- › Few moving parts
- › No cooling water needed

