

GENERAL DESCRIPTION

Type:
Gas Turbine Generator Set

Location:
Japan, S. Korea, SE Asia



US made, heavy industrial gas turbine package for short-term operation e.g. in countries on the American continent and in parts of Far East Asia.

This 60 Hz gas-fired turbine-generator set can ideally be used for both, new GT or CCGT plants or as replacement or for improvement of existing power stations.

This turbine generator set for sale is in top condition and is ready for dismantling by the current operator.

Offering

item / type	100 MW, 60 Hz gas turbine generator set
typical usage	stand-alone (simple cycle) or as part of a combined cycle power plant
status	mothballed since 2013 / 2014
availability for dismantling	any time, subject to finalised sales contract
sales prices	US\$ 1.5 Mio. ask price (approx.1.3 Mio Euro)
New build cost (for comparison)	US\$ 28 Mio. (approx.)
relocation and installation time (for comparison)	9 months (approx.)

Key Figures

main fuel type	natural gas (main: LNG; supplementary: diesel)
electrical output	100 MW _e gross capacity
efficiency	30 % (in simple cycle mode)
plant size	not relevant
year of commissioning / year of last retrofit etc.	1995 and 1996 / full inspection incl. report by KPS Siemens in Sept. 2016

Operating Figures

max. generation capacity	100 MW _e (at full load)
cold start time:	(information will be provided upon request)
fuel quality	LNG / natural gas / diesel
fuel storage capacity	(item not included)
type of cooling	GT: water circulation from external source Generator: open air cooled
amount of cooling water	(information will be provided upon request)

Technical Figures of Main Components

This power generation set for sale comprises a gas turbine together with a power generator matching in size as well as related ancillary equipment.

If needed, several GT-generator sets of this type are available.

gas turbine	Westinghouse (today: Siemens) compressor section: axial flow, 19 stages turbine section: axial flow, 4 stages pressure ratio 14:1 exhaust flow volume 1.313 t/h at 530 degree C with DEHC speed governor max. 4,500 equivalent starts
gas turbine generator	Westinghouse (today: Siemens) 60Hz / 2 pole 3600 rpm; OAC (open-air-cooled) rated power 143 MVA (129 MW); power factor 0,90 short-circuit ratio 0.695 rated voltage 13.8 kV rated current 5731 A insulation class F exciter 325 V; 1006 A
control and communication system	partly included

Additional Information

marketing service fee	will be paid by the seller
------------------------------	----------------------------

Disclaimer:

Although the statements and technical information contained herein are believed to be materially accurate, no representation or warranty is given as to the accuracy of any of the information provided.

Contact:

troveo – we trade power plants and components
e-mail request@troveo.de
phone +49 201 75 998 521
fax +49 201 75 998 529