

Main Facts and Figures





- Location: Gorelovo Industrial area, Leningrad Region, Russia
- Investments: up to 275 Million Euro

- 46.200 m² (production complex 12.700 m², service center - 850 m², warehouse – 1.000 m², office 6.500 m² incl. power diagnostic center)
- ~ 300 employees

Development mile stones









December 2011

June 2015

May 2018

- 01.12.2011
 Establishment of JV Siemens
 Gas Turbine Technologies
- Siemens AG 65%OAO Power Machines 35%

18.06.2015
 Opening of the new manufacturing complex

- 24.05.2018Opening of the new Service Center
- 05.09.2018
 Siemens Gamesa

Siemens gas turbine technologies in Russia: more than 25 years experience

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2015



Opening of the new production complex in Gorelovo.

First SGT5-2000E shipped from Gorelovo NO.

Vladimir Putin put into operation TEZ-20 (Mosenergo) and Serovskaya GRES. TFA projects executed by SGTT specialists

2016 - 2017







- Power Diagnostic Center launched
- Projects: NovoSalavatskaya CCGT-410, 420 MW CCGT unit of Verkchnetagilskaya GRES, 800 MW CCGT unit of Permskaya GRES
- Modernization of 3x SGT5-4000F to the latest version on site (Nyagan power plant) - first time in the world (!)
- SGTT the Best enterprise in the Leningrad Region (2016) and Locomotive of the Industry (2017)

2018





- SGT5-2000E certified as local product of 62%
- License for MHPS gas turbine H-100 (118MW)
- Agreement with SiemensGamesa (wind turbines)
- 10th gas turbine SGT5-2000E shipped from Gorelovo

2013 - 2015



Putting into operation 12 SGT5-2000E/GTE-160 gas turbine units (participation in assembly and commissioning)



Putting into operation 7 power units CCPP SGT5-4000F participation in assembly and commissioning)

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2012



The first project of Siemens Gas Turbine Technology with

SGT5-4000F unit: Yuzhnouralskaya GRES-2 2011



Establishment of OOO Siemens Gas Turbine Technologies (OAO Power Machines – 35%,

Siemens – 65%)

2001 - 2011



E-class gas turbine manufacturing together with OAO Power Machines. 35 turbines E-class. 33 TFA projects.

1991 - 2001



OOO Interturbo foundation (LMZ – 55%, Siemens – 45%). Transfer of Siemens gas turbine assembly technologies. 19 turbines within 10 years.

Localization – SGTT priority #1

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Localization of production



- Localization of SGT5-2000E 62%
- Increasing of localization in 2019 up to 70%

The aim – full localization, Including hot gas part of GTU

Localization of service



- Field service / maintenance / modernization
- Service engineering
- Power Diagnostic Center (2016)
- Spare parts warehouse (2017)
- Service center for blades and vanes refurbishment (2018)

Qualification of suppliers



The main Russian suppliers of the raw parts









Utilization of the fully localized Siemens gas turbines for CCPP – the practical way for retrofitting of the Russian energy industry

SGTT installed broad fleet of high-tech machines



Rotor components machining



Hirth serration grinding machine (Magerle)



Measuring machine (Wenzel)



Rotor turning lathe(Georg)



Small lathe (Mhl Ravensburg)



Broaching machine (Hoffman)



Drilling & Milling machine (PAMA) (Mhl RV)

Assembly span



GT Assembly



Rotor Assembly

Casing welding and machining



Turning/ Tiling Tables (Haahne)



Carrousel 4,5 m (Carnaghi)



Turning & milling center (Schiess)



Oven for preheating (Bosio)



Plate bending machine (Davi)



Gantry machine (WALDRICH COBURG)

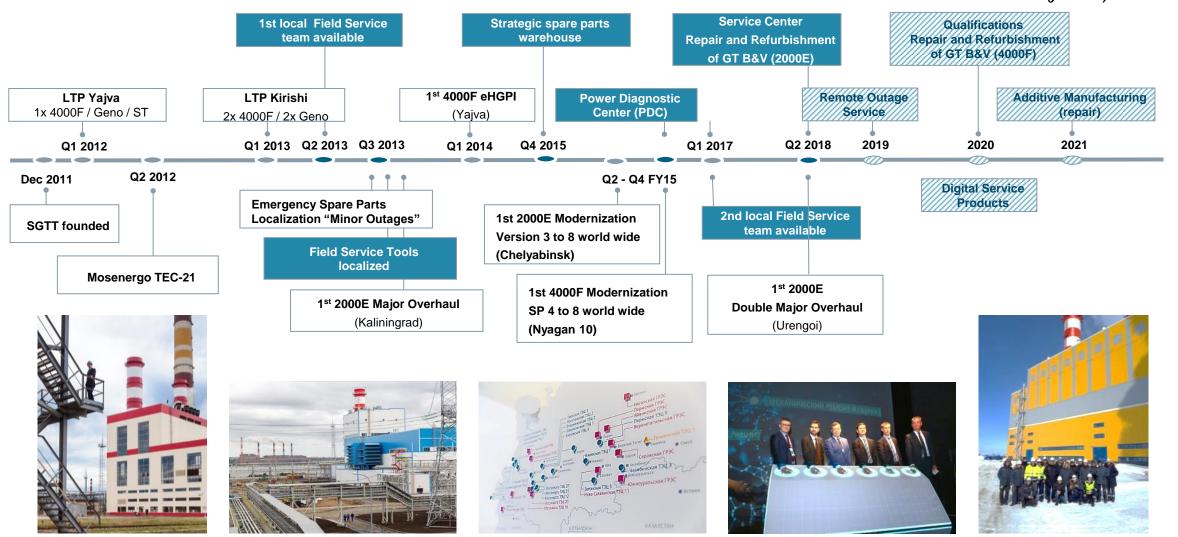
SGTT machine fleet allow to carry out machining, welding of gas turbine components, rotor and final gas turbine assembly.

Customer Service

Strategic developments and investments for localization pay off!

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Service Center - full technology chain for blades and vanes refurbishment



Inspection and Advise

Mechanical repair and welding

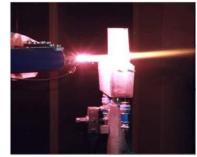
Coating

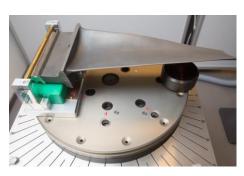
Final Works











- Visual check
- Cleaning via sand blasting
- Chemical stripping
- Heat treatment
- NDE

- Blending
- Welding
- Brazing
- Re-contouruing

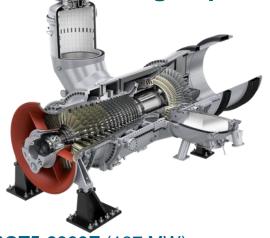
- · MeCrAlY coating
- TBC coating

- Moment weighing
- Airflow measurement
- Final check

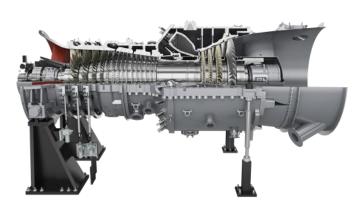
All processes and technologies are implemented according to original specifications and technical documentation from Siemens AG. The qualification will be carried out by experts from Siemens AG, in order to meet the highest quality requirements and guarantee life time estimation of refurbished components, which is equivalent to the life time of new parts.

SGTT factory designed for heavy duty gas turbines and also enables manufacturing of products for Oil & Gas and wind power applications





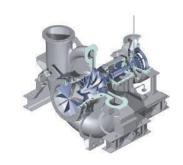
SGT5-2000E (187 MW) Reliable, robust, fuel flexible



SGT5-4000F (329 MW)
Trusted operational excellence



SGT-800 (57 MW) Flexible maintenance, high availability



Centrifugal compressor machine Reliability and durability under severe operating conditions



H-100 (118 MW) High efficiency and reliability



SG 3.4-132 Onshore wind turbine. The most profitable product in its segment

The latest significant projects (new power plants and modernization)









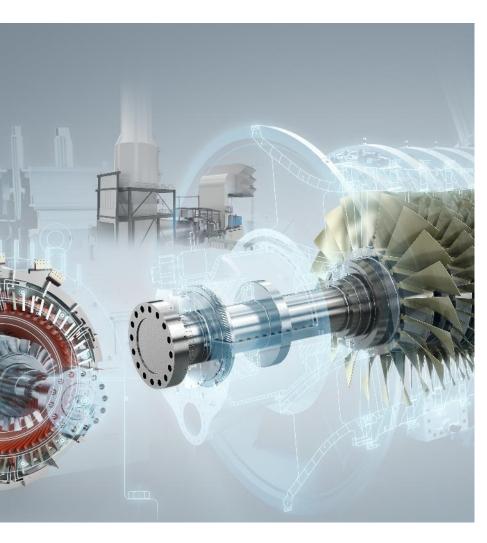






Welcome to our factory!





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