

NEW HEAT RECOVERY STEAM GENERATORS FOR PERM, RUSSIA

UNIS Power has supplied two Heat recovery steam generators for TEC-6 Permskaya located in Perm, Russia. Permskaya TEC belongs to T Plus group. The HRSGs are part of a new combined cycle, which was built in exchange of an existing obsolete coal fired plant. After putting into operation, electric output of the municipal heating plant has increased into 124 MW_e while heat output into 96,5 Gcal/h, which allowed to feed heating into more than 50 000 households. Siemens as the gas turbine SGT-800 supplier has also served in position of the plant EPC contractor.

With regards to the city location in underneath of Ural mountains, the HRSGs has been designed in a maximum single piece sizes to allow easy train transportation. The pre-erection works were then ongoing at the site typical severe winter conditions, which required special planning and anti-freeze temporary protections.

The HRSGs are of a standard vertical design installation, single pressure with extended district heating circuit. Top-supported modules of heat surface bundles integrated with fully gas tight duct system with internal insulation are hanged into robust steel structure.

All the equipment has been supplied in full compliance with local GOST standards and norms.



Client

Siemens Industrial Turbomachinery

Year of Completion

2011

Boiler data

- 59,9 t/h
- 84,2 bar(a)
- 512 °C
- single pressure with district heating circuit
- vertical design

UNIS Power scope of work

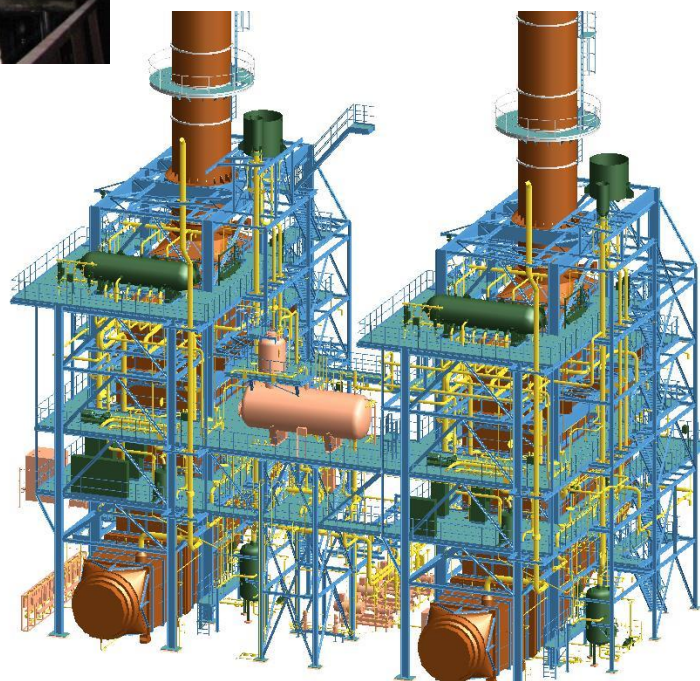
Design, manufacturing, site delivery including advisory services within erection and commissioning of two HRSGs including feed water system, chemical dosing equipment, field instrumentation etc.

Gas turbine

SGT800



HRSG view



3D model of HRSG island