



Specialists in Engineering Software

“Software CEA sees to Engineering Savings on The RTS Teryoshkovo Power Project”

Mosenergoproekt is a multi-purpose institute founded in 1922. It develops designs for new construction, reconstruction, technological re-equipment of power stations, heat supply networks, indoor and outdoor substations, cable and aerial transmission lines and communication and telemetry systems. Mosenergoproekt also produces future development schemes for heat and power supply systems used in Moscow city and other regions of Russia.



*The 3D model in development
(PLANT-4D PIPE)*



*Erection of RTS ‘Tereshkovo’
(february 2003)*

To introduce advanced world technology developments, Mosenergoproekt has extended its international cooperation with leading foreign firms. Among them are FICHTNER (Germany), ENEL (Italy), KEMA (The Netherlands), ABB (Finland), HALDOR TOPSOE (Denmark), NOKIA (Finland), SIEMENS (Germany), ALFA-LAVAL (Sweden) and others.

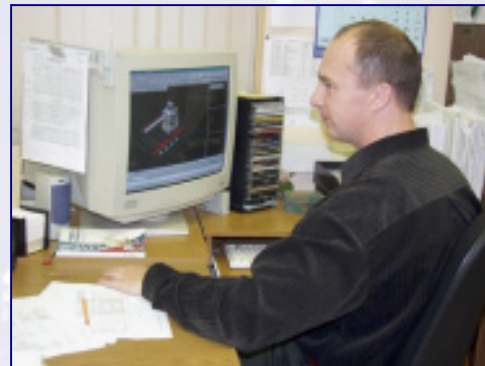
Throughout the past few years the Institute’s activities have been aimed at introducing gas turbine and steam-gas technology as the most efficient and ecologically safe one.

Since 2001 Mosenergoproekt has made provision within the frames of CAD system development for the introduction of a complex system of computer-aided three-dimensional design of power facilities. The main advantages of this strategy are increase of labor productivity, provision of multi-visional design approach, improvement of documentation quality, reduction of design process periods and the use of wide unification and typification.

Mosenergoproekt has used an easy CAD solution based on plant design system PLANT-4D, Consistent Software solutions and AutoDesk technologies which offers a complete set of software tools for design and modeling power plants.

RTS 'Teryoshkovo' with GTU (regional power plant with gas turbine) is the first project for which a three-dimensional computer-aided design system was used. This power plant with gas turbine is located in the Solntsevo region of Moscow city and is formed from six blocks with a total dimension in plan equal to 271.5 x 30 meters.

Especially for Mosenergoproekt, an extensive library of piping and equipment components for power plant design has been developed. The unification and typification of details used in the projects increases the productivity of designers. To decrease the number of errors on pipe tracing and pipe systems collisions, the clashing module has been used. This feature developed by CEA technology, can detect, review and manage the component interferences in 3D models.



Engineer at work with PLANT-4D

All project documents such as schematics, drawings, bills of materials and report forms are produced automatically based on the model. This approach enhances quality, because technical documentation is produced consistently and correctly.



Overview of RTS 'Tereshkovo'
(Autodesk Architectural Desktop +
PLANT-4D PIPE)



*Erection of RTS 'Tereshkovo'
(may 2003)*



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