Summary

The graduation work is devoted to the issue of building new electrogenerating power with high economic and operational viability and the use of electronic computers to executing design analysis and the selection of optimal solutions.

As a result of comparing the economic viability of the CPS (Considering Power Station) project which consisting of the CCP-450 (Combined-Cycle Plant) units with the boiler-turbine-generator consisting of only steam turbine units, the option to build a CPS based on the gas-vapor technology due to substantial fuel savings and specific capital investments was chosen as a promising one.