Finite element analysis for parts of power plants

**Challenge**

Finite element analysis of parts of power plants – analysis of stress, deformation and strain, temperature, fatigue and lifetime.

Using home-made FE code PMD, which was recommended by the "Special Commission for the Analyses of Components and Piping Systems"

**Goals**

- Estimate static and dynamic strength and lifetime.
- Suggest possible numerical methods and approaches.
- Detailed modelling and analysis of parts of power plants.

**Benefits**

Based on knowledge of complex responses of thermo-mechanical components of technological parts of power plants we are able to predict their strength and lifetime.

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