Project Summary

Project Background
The Energy Efficiency Project (ENEV) Phase 3 (2014-2016) had the overall goal to improve the generation, transmission, distribution and end-use of heat and power in Mongolia in a more efficient and effective way. The ENEV 3 project has been extended for two more years 2017-2018 (called ENEV 3+) to support implementation of the first edition of a national energy efficiency action plan (NEEAP) and to advise the Energy Regulatory Commission (ERC) and the Ministry of Energy (MoE) on the transition of the heat and power market towards a more competitive, efficient and effective market model.

Project Objectives
The objective of the services provided to this contract was to conduct three exemplary energy audits and prepare a report for designated consumers such as one section of the central transmission network, one feeder of a distribution network and two steam boilers of a power plant respectively.

The energy audits included:
- Current efficiency levels
- Saving potentials
- Cost of efficiency measures
- Economic and financial assessment

Project Results
Implementation of three energy audits including training on-the-job, reports on all findings and respective recommendations. In particular:
- A thermal efficiency performance test of two steam boilers at the Erdenet combined heat and power facility;
- An exemplary technical loss reduction appraisal of a section of the South-East transmission grid;
- A technical loss reduction appraisal of a feeder and its distribution transformers of the Ulaanbaatar distribution network.

Services Provided
- Definition of data collection requirements
- Collection, review and analysis of data
- Selection of final energy audit locations
- Preparation and implementation of 3 energy audits
  - Erdenet combined heat and power facility
  - South-East transmission grid
  - Ulaanbaatar distribution network
- Training of local professionals on-the-job
- Follow up and post visit analysis
- Reporting including all findings and respective recommendations