

## SEMISE AD HOC TECHNICAL ASSISTANCE TASK

**AHEF No.** KZ 77

**Project Title**

**Capacity Building: Industry Energy Audit Analysis for Bankable Projects**

**Country (s)** Kazakhstan

**Timescale for implementation** August 2011, Almaty

**Beneficiary(s)**

JSC "Chokin Kazakh Research Institute of Power Engineering" (Chokin Institute), Almaty

**Main and specific objectives**

The main objectives of this capacity building were

- To teach sound business practice using life cycle cost analysis in development of EE/RES projects.
- To teach how to optimize energy conservation measures (ECMs) for maximum benefit and avoid life cycle losses.
- To teach realistic analysis, free of hypothetical input, through rigorous reality checks.

Specific objectives were

- To teach authorities; to teach senior engineers with decision making responsibility; and especially to reach out to teachers capable of training others about high quality project analysis.
- To impart practical skills through workshop exercises.

**Results achieved**

Twenty two participants attended the seminar. All 22 received certificates for participating in all activities for two and a half days.

Participants formed working groups to analyse hypothetical EE and RES projects. Then each group presented its proposal to the rest of the audience and instructors for judging. In the afternoon of the 3<sup>rd</sup> day, the SEMISE experts conducted a train-the-trainers session with 12 future instructors.

The general impact of the seminar was measured by means of a quiz and evaluation questionnaire. All working groups passed the quiz. Participants' general opinion of the workshop was very high (>95% satisfaction). As in all previous seminars, these participants expressed a desire for further training.

For the first time in this series of seminars, representatives of the banking sector participated actively. Bankers and engineers learned a common methodology of analysis and communicating with each other about the feasibility of EE and RES projects.

**Useful information/ relevant documents**

All participants received electronic copies of the spread sheet tools from SEMISE.

Unique impacts:

1. Synergies in SEMISE technical assistance
  - Cross training between sustainable energy and banking industries.
  - Immediate application by beneficiary of acquired skills in an energy audit the following week under the next SEMISE TA task (see KZ 78).
2. Announcement by some leading participants of their intention to organize an association of energy managers and auditors in Almaty.

**Contact point for further information:** Larry Good

L.good@inogate.org