MOBILE LABORATORY FOR ENERGY AUDITING OF ORGANIZATIONS AND ENTERPRISES

Description
The Institute of Thermophysics of the Siberian Branch of the Russian Academy of Sciences together with Joint Stock Company “Novosibirsk Power Center” provides instrumental energy auditing of organizations and enterprises on the basis of a specially developed technique for quantitative determination of actual heat-insulation parameters of various buildings. Technical recommendations are given for saving heat (up to 40%) and electric energy (up to 10%).

Fig. 1 Mobile laboratory.

Fig. 2 IR image of a fragment of the building (124, Frunze St., Novosibirsk)

Technical appraisal and economic benefits
Diverse instrumentation, equipment, and software are used to provide efficient high-quality measurement of all energy systems of the enterprise, including those of heat and electric-energy supply, hot- and cold-water supply, ventilation, steam and cold supply. Most of the portable instruments at the laboratory do not require disconnection of the equipment or complicated assembling during their operation.

Application area
Enterprises interested in energy saving.

Development stage
The mobile laboratory was used for energy monitoring of enterprises and organizations in Novosibirsk and of the institutes of the Siberian Branch of the Russian Academy of Sciences. A license for energy auditing is available.

Patent situation
Not available.

Commercial offers
Energy monitoring of industrial enterprises and housing organizations, aimed at decreasing energy consumption. Heat-engineering monitoring of frame structures of newly built and reconstructed buildings.
Estimated cost
To be discussed.

Contacts
Pavel A. Kuibin, Cand. Sc., Scientific Secretary
Institute of Thermophysics, Siberian Branch of the Russian Academy of Sciences
1, Prosp. Akademika Lavrentieva, Novosibirsk, 630090, Russia
Phone: (383) 330-60-44
Fax: (383) 330-84-80
E-mail: kuibin@itp.nsc.ru
http://www.itp.nsc.ru