



## Energy Audit Consulting Service and Engineering Industry and Trade Limited Company

- ◆ Certified Building and Industrial Energy Manager Training
- ◆ Energy Management System Installation, Implementation, Consulting
- ◆ Sustainable, Energy Efficient and Environment-Friendly Building Design, Project, Consulting
- ◆ Carbon Footprint Measurement, Calculation and Sick Building Syndrome Measuring
- ◆ Energy Efficiency and Environmental Monitoring Devices Measuring, Sales, Rental, Training and Service

### WHO IS EDSM?

Energy Audit Consulting Service and Engineering Industry and Trade Limited Company is founded by firms and professionals having international experiences and accumulations.

EDSM Energy is founded in 2007 in Istanbul and expanded in 2008 by opening up Ankara Branch. EDSM has been serving in industry and buildings as an “Energy Efficiency Consultancy Firm” in accordance with the regulations “Increasing Efficiency at Energy Resources and Energy Utilization” released on 25.10.2008.

EDSM has qualified energy, electrical, electronics, mechanical, chemical, environmental engineers and architectures certified from Germany, Japan, Netherlands and General Directorate of Electric Power Resources Survey and Development Administration in the area of audit, measurement, monitoring, analyses, recruitment, application, education and EPC, ‘Efficiency Increasing Projects’.

EDSM is the sister company of worldwide leaders of measurement instruments, Testo-Turkey, Enotek, Tetra and Agrolab. EDSM has been in partnership with each of these firms offering equipment, maintenance, measurement and training services to all industrial processes and companies about food-environment-energy. Powered with these lasting companies, EDSM Energy, has built up with a mission of “unconditional customer satisfaction”.

Below listed are brief information about these sister companies working dedicatedly on specialized subjects and supporting each other in the market:

- **TETRA Industrial and Technical Systems Foreign Trade Inc.** : Environmental pollution control technologies, process monitoring and control systems (on-line water & waste

water monitoring systems, on-line & portable air quality control systems, flow meters & level measuring instruments, water/steam sampling and conditioning systems).

- **ENOTEK Engineering and Consultancy Services Industry and Trading Ltd.** : Water and waste water analysis systems, spectrophotometric analysis systems, food control and hygiene monitoring systems, agriculture and aquaculture analysis systems, turn-key laboratories and general laboratory equipment.
- **TESTO Electronic & Test Measuring Instruments Ltd. (German TESTO Group Company)** : Portable and stationary flue gas, temperature, humidity, velocity, pressure, sound, rpm/frequency, gas leak, indoor air quality, light intensity measuring instruments; accredited calibration laboratory in Turkey.
- **AGROLAB Food, Water, Environmental Analysis Laboratory and Hygiene Support Systems Ltd. (German AGROLAB Group Company)**: Accredited laboratory from Ministry of Health and Ministry of Agriculture. (Accreditation of Ministry of Environment is in progress.)

In addition to these, EDSM has solutions partners located in Bursa, İzmir, Antalya, Çorlu, Kocaeli, Adana and Gaziantep.

### **WHAT DOES EDSM DO?**

EDSM Energy provides services including, but not limited to, measurement, monitoring, control, analysis, audit, improvement of energy efficiency and energy performance contract as well.

In particularly, EDMS functions as:

- ISO EN 16001 Energy management system installation, implementation and consulting
- Certified building and industrial energy manager training,
- Specified education for companies and businesses,
- Thermal camera and ultrasonic measuring instrument training,
- Sustainable, energy-efficient and environment-friendly building design, project, and consultancy
- De-central, regional, industrial facility, town-building scale renewable energy consultancy, feasibility, project and application
- BREEAM, LEED, “Energy and Environment-Friendly Building” Certification
- Carbon footprint measurement and calculation,
- Sick building syndrome measurement,
- Energy efficient and environmental monitoring devices sales, rental, training and service,
- Functioning, test, adjustment, balancing, control and commissioning in heating, cooling, ventilation, and air-conditioning systems.

### **GREEN BUILDING APPLICATIONS**

#### **METU Research and Implementation Centre for Built Environment and Design (RICBED)**



METU-RICBED has won Architectural Design Competition organized by Yapi Endüstri Merkezi with its success in Energy Efficient Design and Implementation among its other values. RICBED is one of the very few energy efficient buildings in Turkey.

### **METU Kizilay R&D Center (TÜKAM)**



Built by Middle East Technical University (METU), Kizilay Research and Development (R&D) Center is one of the green buildings in Turkey with a total area of 370 m<sup>2</sup> that will “supply its whole energy by itself”.

Architectural design of the building is done by Dr. Abdi Guzer, the winner of the Energy Efficient Design 2008 with his design of the METU-RICBED building. Energy Director and METU-RICBED

consultant Arif Kunar has been in charge for Environmental consultancy.

At the roof of the building, it has been used various alternative energy efficient systems including but not limited to, transparent solar pv panels, horizontal wind turbine, grass roof application, ground source heat pump, trombe wall, sunlight chimney, passive lighting, heating and cooling, special insulator and brick materials, roof rainwater collection and reusage system, led lighting, building and energy monitoring automation.

### **LEED Gold Certification Candidate ESER Management Building**



With energy efficient and green building design by Prof. Dr. Haluk Pamir, Dean of the Faculty of Architecture, the construction of ESER Management Building has begun from scratch with “Integrated Building Design and Project Management System”, aiming to receive LEED Silver Certificate. The building’s LEED and environmental energy consultancy is

provided by EDSM Energy. Beside the aim of LEED Silver Certificate, ESER is also designed to be a “High Performance Building.” EDSM Energy is executing this project with experts in the field like Prof. Dr. Birol Kılıç, and Dr. İbrahim Çakmanus, consultants like LEED AP and engineering companies like ETS ESER Engineering-Project Group.

### WHAT MAKES EDSM DIFFERENT?

#### **Our Purpose**

...developing lasting relationships with our clients by treating their business as our own.

#### **Our Vision**

...applying our technical excellence, energy efficient systems and entrepreneurial skills to the client's best advantage.

#### **Our Focus**

...developing the entrepreneurial skills of our personnel so that technical decisions are business decisions.

...continually expanding our technology base so that our clients benefit from innovative and cost effective solutions.

Our success in the market is a result of advanced management philosophies and standardization, and its highly-effective use of technology. We constantly strive for excellence through innovation, technical and managerial leadership, entrepreneurial skills, and efficiency. The result: our clients receive the most cost-effective total solution with the best return on investment.

Our corporate philosophies focus on providing the best possible benefits for our clients. Fundamental to all EDSM activities and decisions, these philosophies include:

- Commitment to specialized **service** and **technology leadership**, rather than simply supplying of sales of equipment

- Reinvestment of profits, allowing EDSM to operate without debt and to focus its complete attention on technology and service for the benefit of clients
- Recognition that EDSM's major asset is its people, who work in partnership with our clients
- Commitment to developing the knowledge, capabilities, and creativity of its people to enable them to provide clients with a higher return on investment for a longer period of time
- Commitment to developing the entrepreneurial skills of our people so that technical decisions are also business decisions
- Commitment to long-term staff stability and continuity for each client

**PEOPLE : EDSM'S MAIN RESOURCE**

**MANAGEMENT AND KEY PERSONNEL SUMMARY**

- **Mr. SELMAN OLMEZ (1960)**

Electronic Engineer, MSc., CEO

After graduation, he became a lecturer at the university at Computer Science Dept. Then he joined a company active in the field of environmental and analytical instrumentation as a sales engineer in 1982. Became the area manager responsible for Izmir region, but resigned in 1992 and founded TETRA and half of owner of EDSM since 2007.

- **Mr. ARIF KUNAR (1962)**

Electrical and Electronic Engineer, General Manager

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**EDSM ENERJİ DENETİM DANIŞMANLIK SERVİS VE MÜHENDİSLİK SAN. VE TİC. LTD. ŞTİ.**

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- **Ms. GULNAZ ÖLMEZ (1971)**

Environmental Engineer, MSc., Financial Coordinator

After graduation from university with a brilliant grade, she started her master on “Toxicity Identification & Reduction Evaluation at Industrial Effluents”, and took training on toxicity at Norwest Labs, Edmonton, Canada for 2 months, and in September, 1995, joined TESTO and EDSM.

- **Mr. OZGUR KUCUKHUSEYIN (1972)**

Environmental Engineer, MBA, Strategic Planning and Business Development Director

After graduation, he became a Sales Engineer at Tetra. Then he became Product Manager. After three years he joined Testo and worked as a Sales Manager for 7 years. Now he is the partner of EDSM and providing technical solutions and information about measuring devices.

- **Ms. YONCA ERCUMEN (1968)**

Environmental Engineer, Ph.D., Education Coordinator

After graduation, she worked as a research assistant at Bogazici University, Environmental Sciences Institute for 9 years. She joined EDSM in 2009.

- **Mr. FERIT LEBLEBICI (1958)**

Chemical Engineer, Ph. D., Dr.

After graduation he worked as an engineer and manager Turkish Sugar Refinery Corporation for 26 years. In 2008 he joined EDSM as a technical consultant and instructor.

- **Mr. MEHMET PEKER (1953)**

Electronic Engineer, Technical Manager



After graduation, worked at Turkish Navy for years. Then transferred to private sector and took a job in a company active in the field of process automation systems. Continued as technical manager of Hereaeus, Schimadzu, Mettler Toledo in Turkey respectively.

- **Mr. IBRAHİM CAKMANUS (1960)**

Mechanical Engineer, Ph. D., (Dr) Supervisor

After graduation he worked as an engineer in a variety of projects such as General Directorate of State Airports Operations and National Bank. He is also the member of ASHRAE (American Society Of Heating, Refrigerating and Air Conditioning Engineers), The Chamber of Mechanical Engineers and Turkish Sanitary Engineers Association.

- **Mr. BIROL KILKIS (1949)**

Mechanical Engineer, Prof. Dr., Chief Supervisor

In 2008 he joined EDSM as a technical consultant in the subject of green mechanical systems. Also he has been the Manager of ASHRAE High Performance Building Council since 1990.

- **Ms. SERMIN ONAYGIL (1958)**

Electronic Engineer, Prof. Dr., Instructor- Solution Partner

She is the part-time instructor in EDMS's trainings. She is the head of the department of Energy Planning and Management in Istanbul Technical University.

- **Mr. HASAN HEPERKAN (1953)**

Mechanical Engineer, Prof. Dr., Supervisor

He has been working as an academic member since 1975 in different universities worldwide.

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