

Oil Shale Competence Center

Solutions in oil shale domain since 1958

Fuels technology
research testing laboratory

Lines of activity:

- ✓ analyses of solid mineral fuels, wood, plastic, tires etc.
- ✓ analyses of liquid fuels
- ✓ analyses of water
- ✓ processes of organic chemistry, including hydrogenation, high pressure, and high-temperature reactions
- ✓ thermal processing of materials (pyrolysis)



Oil Shale Competence Center is R&D unit, which offers services to enterprises and public sector primarily in the field of oil shale and chemistry.

Services in the accredited laboratory

(Accreditation Certificate No L059):

- ✓ thermal processing of materials containing organic substances and analysis of the obtained products
- ✓ determination of chemical elements content (carbon, hydrogen, nitrogen, sulfur, oxygen, phosphor, chlorine, fluorine, metals) in different materials
- ✓ gas and liquid mixtures component composition determination by chromatographic method
- ✓ determination of particle size distribution in crushed or grinded materials up to the level of common sieve analysis and fines distribution beneath (up to 10 nano meter)
- ✓ proper solutions for definite needs



References:

- ▶ Jordan oil shale deposits technological properties determination
- ▶ Australia, Morocco and Mongolia oil shale quality determination
- ▶ Oil shale, peat and wood analysis for Power Plant operation
- ▶ Feasibility reveal of oil production from Saaremaa Kudjape landfill plastic

BUSINESS INCUBATOR WITH RENTAL LABORATORIES

- ✓ entrepreneurs consulting
- ✓ **6 rental rooms with elementary laboratory facilities:** hoods, weight, stirrers, refrigerators, gas supply, other laboratory equipment rent
- ✓ rental laboratory suits for entrants and active enterprises to carry out:
 - ▶ prototyping
 - ▶ product development
 - ▶ projects
 - ▶ scientific and research works
 - ▶ training/schooling
 - ▶ the first production laboratory



INTELLECTUAL PROPERTY AND STANDARTIZATION

IO consulting and services in order

- ✓ to protect technical solutions and business secrets
- ✓ to possess overview of new technologies preferences
- ✓ to work out new technological solutions
 - ▶ subject research
 - ▶ monitoring of technology
 - ▶ firm search and monitoring of competitors

Standartization

- ✓ domain standartization management via Technical Committee EVS/TK 57 „Oil Shale and oil shale products processing“
- ✓ provision of standartization services

OIL SHALE DOMAIN COMMUNICATION

- ✓ oil shale conferences management
- ✓ trainings for schools and companies
- ✓ seminars, information and introduction measures management
- ✓ oil shale newsletter and yearbook publishing



References:

- ▶ beginner-entrepreneur rubbish press prototype designing, manufacturing, testing, intellectual property protection management (protected useful model)
- ▶ enterprise laboratory accreditation management (quality system documents compilation, external audit conducting, interlaboratory comparative testing management)

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