

Let us create successful energy engineering solutions.



ees at a Glance

ees is an independent energy and engineering consulting group providing cost-effective sustainable energy solutions for its clients. **ees** strives to be the client's firsthand provider for all energy related engineering tasks. **ees** will enable its clients to reduce energy consumption and expenses by offering proven engineering solutions. **ees** seeks to lead and support its clients in a wide range of energy solutions starting from simply implementing energy management with reasonable investment, up to introducing sustainable modernization of its client's energy infrastructure with best pay-back solutions.

ees Energy Engineering Solutions

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1. Business Summary:

ees is an independent energy and engineering group dedicated to climate protection and energy efficiency. **ees** founders and executives have more than 25 years of experience in the field of energy consulting, energy management, energy contracting, energy distribution, renewable energy utilization, heat generation, land and real estate development.

2. ees operates in the areas of:

- Development, engineering, planning and consulting of projects to improve energy efficiency, energy saving, use of renewable energies and energy contracting.
- Performing of energy audits.
- Planning, implementation and exploitation of measures to increase energy efficiency and energy saving.
- Research, development, introduction and exploitation of renewable and sustainable energy technologies for energy generation and energy distribution.

3. By serving:

- private,
- commercial,
- and municipal clients.

4. Participating in:

- Energy and climate concepts.
- Energy and climate rehab programs.
- Consulting of business owners, investors and municipalities.
- Consulting in investment, grant and donor programs.
- Development of real estate, commercial facilities and community infrastructure.
- Complex industrial and municipal projects.
- Know-how transfer.
- Training and education programs.
- Documentations, publications.

5. ees technical know how:

- Energy generation, fossil, solar, geo-thermic, biomass, biogas, wind, heat pumps.
- Energy distribution, networks, heat insulations, construction, installations, maintenance.
- District heating improvements and energy efficiency in district heating.
- Energy efficiency, energy saving, renewable energy usage.
- Waste heat / energy recovery.
- Energy Audit, energy management, energy monitoring and contracting.
- Public lighting.

6. ees key executives:

- Mr. Jilles Nijboer, General Director
- Mr. Alexander Dappen, International Director
- Mr. Wim Maaskant, Environmental Engineering Director
- Mr. Rogier van Meenen, Innovation Manager
- Mr. Peter Mayer, Energy Engineering Manager

7. ees engineering and consulting process:

- Research.
- Feasibility study, energy audit.
- Project planning, project development, business case, business plan.
- Design, engineering, testing.
- Tendering.
- Project implementation.
- Project management.
- Monitoring.
- Documentation.
- Service, maintenance.

8. Compendium of ees technical know-how ordered by sphere of activities:

a. Renewable energy solutions:

- Developing and installation of wood waste fired CHP installation in Yekatarinenburg, Russian Federation, generation of renewable energy and use of electricity and heat at the premises, delivery of surplus energy to the national electricity grid (since 2012).
- Renovation and installation of a hydropower station near Novolabun, Chomorra River, Ukraine, to produce 170 kW(e) "green" electricity, more installations are in preparation (since 2009).
- Research, design and planning of integrated and stand alone heating solutions for municipal buildings in Poltava by using renewable and conventional fuel sources such as solar, geo-thermic and gas, developing of ESCO models (2009-2010).
- Building-up of the joint venture company to rent and cultivate farmland in the region Dnepropetrovsk. Today cultivation of 1.200 ha of farmland. Cooperation with the German holding company Agro BioEnergie Gäu GmbH & Co. KG. Establishing of an investment structure to enable farmers from Germany to cultivate and hold farmland (2008-2011).
- Developing, establishing and taking into operations of a biogas plant at Karacabey, Turkey, manure from a dairy farm digested into gas converted into "green" energy (350 kW(e)), two more plants are in preparation (since 2009).
- Development of business plans to attract foreign investments for an existing agricultural company from Dnepropetrovsk, Ukraine, to first expand the cultivation area from 6.300 ha to 10.000 ha, second to increase the elevator capacity from 20.000 to up to 50.000 to and third to establish an oil press with a capacity of 20.000 to oil per year for bio oil and bio fuel (2008-2009).
- Developing and optimization of anaerobic digestion of animal manure at different farms in Cyprus, improving the conditions of the environment and reducing organic loading of ground and surface water, reducing of air pollution as well as reducing odor, generation of renewable energy and use of electricity at the farms, delivery of surplus electricity to the national electricity grid (since 2007).
- Developing a business plan for a rape seed bio oil plant and a production of renewable energies in Dnepropetrovsk, Ukraine (2006-2008).
- Capture of methane emissions from animal manure at Kanhym pig farm in South Africa, technical calculations and basic design for the digester, CDM application procedures, including baseline calculations and the emissions trading arrangements (since 2005).
- Waste management in Nevsehir, Turkey, feasibility study for a centralized landfill project (2004-2009).
- Institutional strengthening, capacity building and training of the Turkish Ministry of Environment and Forestry in Ankara (2004-2005).

b. energy efficiency, energy saving and contracting solutions:

- Developing of ESCO business models for shopping malls in Kiev and Dnepropetrovsk, Ukraine, focusing on energy management, energy monitoring, implementation of energy saving measures, contracting, operations and maintenance and facility management. Energy audits for pilot shopping centers (since 2010).
- Feasibility study for the City of Poltava, Ukraine, focusing on modernization of the district heating network, including energy generation, energy distribution, exploitation of the network and energy contracting to end users (2009-2010).
- Research, design and planning of integrated and stand alone heating solutions for municipal buildings in Poltava by using renewable and conventional fuel sources such as solar, geo-thermic and gas, developing of ESCO models (2009-2010).
- Developing and installation of heat technology systems in Kaliningrad Region, Russian Federation, hospitals of Tschernjachowsk and Sovjetsk, in the bakeries Pirwe Chlebesawod Kaliningrad, Russky Chleb Kaliningrad, Chlebsawod Egwat in Gusev and Chlebsawod Sovjetsk (since 1996).
- Supporting and advising clients in both business and government in Russia, especially in Kaliningrad Region, in relation to management of environmental and sustainability issues, with a particular focus on famous enterprises like fastening, strength Jacobs Suchard, Kempinski Hotel arrangement Saint Moritz, silk weaving mills SEFAR belong to the customer circle in Switzerland in Thal, SBB Swiss Federal Railroads, hospitals and sewage plants (since 1993).
- Development of oil distillers and gas burners in Kaliningrad Region, Russian Federation for Elco, Ravensburg, Germany. Technical Consultant and construction engineer. In bakery industry Pirwe Chlebesawod Kaliningrad, Russky Chleb Kaliningrad, Chlebsawod Egwat in Gusev and Chlebsawod Sovjetsk (1984-1994).
- Planning and construction of measuring tax and control technology for great boiler houses (Daimler Benz, Bosch, KJS Suchard, Fastening Findus Sweden, ZF und MTU in Friedrichshafen, Dornier Werke SPS and systems DDC) (since 1978).
- Developing, planning, designing, implementation and exploitation of projects in energy distribution such as gas pipelines in Vlissingen, Netherlands, heat distribution network for Gasunie Ravenstein, Netherlands (since 1961).
- Planning and installation of heating and cooling networks in apartment buildings such as for Eneco, Rotterdam, Netherlands, Ravenstein, Transvaal in Den Hague and Breda Netherlands (since 1961).
- Installation and monitoring of indoor and outdoor, above ground and underground systems for energy distribution, energy management and energy monitoring throughout Netherlands, Germany, Switzerland (since 1961).

c. District heating networks, network solutions:

- Feasibility study for the City of Poltava, Ukraine, focusing on modernization of the district heating network, including energy generation, energy distribution, exploitation of the network and energy contracting to end users (2009-2010).
- Research, design and planning of integrated and stand alone heating solutions for municipal buildings in Poltava by using renewable and conventional fuel sources such as solar, geo-thermic and gas, developing of ESCO models (2009-2010).
- Developing and installation of heat technology systems in Kaliningrad Region, Russian Federation, hospitals of Tschernjachowsk and Sovjetsk, in the bakeries Pirwe Chlebsawod Kaliningrad, Russky Chleb Kaliningrad, Chlebsawod Egwat in Gusev and Chlebsawod Sovjetsk (since 1996).
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- Developing, planning, designing, implementation and exploitation of projects in energy distribution such as gas pipelines in Vlissingen, Netherlands, heat distribution network for Gasunie Ravenstein, Netherlands (since 1961).
- Planning and installation of heating and cooling networks in apartment buildings such as for Eneco, Rotterdam, Netherlands, Ravenstein, Transvaal in Den Hague and Breda Netherlands (since 1961).
- Installation and monitoring of indoor and outdoor, above ground and underground systems for energy distribution, energy management and energy monitoring throughout Netherlands, Germany, Switzerland (since 1961).
- Installation of public lighting and traffic regulating systems throughout Netherlands, Germany, Switzerland (since 1961).

9. Compendium of ees technical know-how ordered by region or country of activity:

a. Netherlands, Germany, Switzerland

- Developing, planning, designing, implementation and exploitation of projects in energy distribution such as gas pipelines in Vlissingen, Netherlands, heat distribution network for Gasunie Ravenstein, Netherlands, Zurich, Switzerland and Aachen, Germany (since 1961).
- Planning and installation of heating and cooling networks in apartment buildings such as for Eneco, Rotterdam, Netherlands, Ravenstein, Netherlands, Transvaal, Den Hague and Breda Netherlands (since 1961).
- Installation and monitoring of indoor and outdoor, above ground and underground systems for energy distribution, energy management and energy monitoring throughout Netherlands, Germany, Switzerland (since 1961).
- Installation of public lighting and traffic regulating systems throughout Netherlands, Germany, Switzerland (since 1961).

b. Cyprus

- Developing and optimization of anaerobic digestion of animal manure at different farms in Cyprus, improving the conditions of the environment and reducing organic loading of ground and surface water, reducing of air pollution as well as reducing odor, generation of renewable energy and use of electricity at the farms, delivery of surplus electricity to the national electricity grid (since 2007).

c. Russian Federation, Romania, Ukraine and other Eastern European Countries:

- Developing and installation of wood waste fired CHP installation in Yekatarinenburg, Russian Federation, generation of renewable energy and use of electricity and heat at the premises, delivery of surplus energy to the national electricity grid (since 2012).
- Developing of ESCO business models for shopping malls in Kiev and Dnepropetrovsk, Ukraine, focusing on energy management, energy monitoring, implementation of energy saving measures, contracting, operations and maintenance and facility management. Energy audits for pilot shopping centers (since 2010).
- Renovation and installation of a hydropower station near Novolabun, Chomorra River, Ukraine, to produce 170 kW(e) "green" electricity, more installations are in preparation (since 2009).
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- Project management, business development, joint implementation projects, bilateral cooperation projects, consulting, training and education for private and / or public funded projects for private, commercial and governmental customers (since 1993).
- Planning and construction of measuring tax and control technology for great boiler houses (Daimler Benz, Bosch, KJS Suchard, Fastening Findus Sweden, ZF und MTU in Friedrichshafen, Dornier Werke SPS and systems DDC) (since 1978).

d. South Africa

- Capture of methane emissions from animal manure at Kanhym pig farm in South Africa, technical calculations and basic design for the digester, CDM application procedures, including baseline calculations and the emissions trading arrangements (since 2005).

e. Turkey

- Developing, establishing and taking into operations of a biogas plant at Karacabey, Turkey, manure from a dairy farm digested into gas converted into "green" energy (350 kW(e)), two more plants are in preparation (since 2009).
- Waste management in Nevsehir, Turkey, feasibility study for a centralized landfill project (2004-2009).
- Institutional strengthening, capacity building and training of the Turkish Ministry of Environment and Forestry in Ankara (2004-2005).