Krajowa Agencja Poszanowania Energii S.A.

KAPE - established on 15th April 1994 after:
- Parliamentary resolution of 9th November 1990 concerning guidelines for the Energy Policy of Poland until 2010
- Decision of the Government of Republic of Poland No 21/92 of 19th May 1992 on creation of an energy conservation agency
- Agreement of ministers of 5th February 1994 concerning creation the Polish National Energy Conservation Agency – Joint Stock Company
- Funding capital: 3.000.000 PLN (appr. 750 k€)

Historical shareholder’s status (1994-2011):
- Ministry of Industry and Trade, Ministry of Environment, Ministry of Spatial Planning and Construction
- National Fund for Environmental Protection and Water Management (100%, Min. of Envir.)
- Agency for Industrial Development (100% owned by MoE)
- Bank of the National Economy (BGK), state bank

Actual shareholder’s status – since 2012
- National Fund for Environmental Protection and Water Management 67,74%
- KAPE’s labour personnel (32,26 %)
The Agency is functioning according to commercial law and rules, while also realizing public tasks.

- Experienced team of experts in energy efficiency in the construction, industry, renewable energy, low-carbon economy;
- EE knowledge transfer through developed training capacity;
- Extensive experience in performing energy audits and consulting in the field of energy conservation;
- Excellent knowledge of national and EU legal requirements and programs in the field of energy efficiency and sustainable development;
- Credibility and recognized position in the domestic and international markets;
- Years of experience in national and international projects.
For the national government: expert opinions on EE & RES, public campaigning

For local governments: low-carbon economy plans, analysis, energy consumption monitoring;

For industry: comprehensive and independent energy audits and advice in the industry;

For construction: designing modern energy efficient buildings and audits, analysis, thermo-modernisation;

For All: renewable energy sources technologies, financing opportunities for innovative ventures from national and foreign funds, proprietary solutions and instruments of energy efficiency improvement using RES, training for managing and technical staff

National and international educational projects, which are an expression of our social responsibility in business.
The Polish National Energy Conservation Agency

Contribution in the development of the national Energy Efficiency policy

- ANALYSIS AND EXPERTISE ON THE IMPLEMENTATION AND EVALUATION OF THE FIRST NATIONAL ACTION PLAN FOR ENERGY EFFICIENCY, 2010
- ANALYSIS OF THE FUTURE DEVELOPMENT OF INFRASTRUCTURE AND MARKET ALTERNATIVE FUELS IN TRANSPORT IN POLAND, 2015
- HANDBOOKS SUPPORTING ALL-NATIONAL INFORMATION AND EDUCATIVE CAMPAIGN ON EFFICIENT USE OF ENERGY SUPPORTING ACTION BY THE MINISTER OF ECONOMY - development of 2 handbooks supporting public promotion campaign run by the Minister of Economy, 2012
- TENS OF INTERNATIONAL AND NATIONAL COMMON CONFERENCES and seminars on EE and RES or under a patronage of the Ministry, 2010-2015.
- INVOLMENT INTO AN BILATERAL INTER-GORVNMENTAL COOPERATION ON EE & RES – signed MoUs on co-operation with Ukraine, Moldova and Korea.
- BASREC - THE DEVELOPMENT OF ELECTRIC TRANSPORT - its impact on the security of the electricity system and forecasting of energy demand in selected BASREC 8 countries (Norway, Denmark, Germany, Sweden, Finland, Estonia, Lithuania and Poland), 2015
The Polish National Energy Conservation Agency

ODYSSEE – MURE 2015

Monitoring of Energy Demand Trends and Energy Efficiency in the UE

A Poland’s Partner in the project consorcium: Main Statistical Office, Warsaw

KAPE and the Main Statistical Office (separate contract) in co-operation with the Energy Regulatory Office in Poland are responsible for survey, gathering and handling data used for monitoring of EU and national energy efficiency targets.

The ODYSSEE-MURE project is co-ordinated by ADEME with the technical support of Enerdata and Fraunhofer. The project relies on two comprehensive databases: ODYSSEE and MURE. ODYSSEE contains, on the one hand, detailed data on the energy consumption drivers by end-use and sub-sector and, on the other hand, energy efficiency and CO₂ related indicators.

ODYSSEE database is managed by Enerdata and updated twice a year. MURE is a data base on policy measures. This project is part of the activity of the EnR Club.

Publications:
Energy efficiency indicators 1996-2006
Energy efficiency indicators 2002-2012 (published in 2014)

New contract: 1.03.2016 r. - 28.02.2019 r.


Contact person: Dr. Ryszard Wnuk, rwnuk@kape.gov.pl

ENERGY INTENSITY IN POLAND
Contribution in the implementation of the national Energy Efficiency policy


- ENERGY STANDARDS IN HABITABLE BUILDINGS AND METHODS OF VERIFICATION OF ENERGY AUDITS AND QUALITY OF ERECTED ENERGY EFFICIENT BUILDINGS - elaboration of basic requirements in order to achieve expected energy efficiency standards of buildings and elaboration of principles for technical requirements and calculation methods which will be applied by the Fund in the evaluation of applications in order to provide soft environmental loans related to construction of new energy efficient residential buildings. Document is applied as a standard document within application to the NFOSIGW, 2012/2013

- NATIONAL PRIORITY PROGRAMME "EFFICIENT USE OF ENERGY., Part 3. Excess fees to energy efficient building loans - Elaboration of principles for technical requirements and its interpretation which will be applied by the Fund in the evaluation of applications in order to provide soft environmental loans related to construction of new energy efficient buildings, 2013

- INFORMATION-EDUCATION CAMPAIGN TACKLING WITH THE CLIMATE CHANGE - ENERGY BUS - Mobile education and information center against Climate Change is located inside a specially equipped and designed bus. The main job of the mobile center and the educational programme is reaching out to the inhabitants of municipalities and increasing ecological awareness in wide-ranging social groups (representatives of local government, entrepreneurs, residents). Part of the project's realization is carrying out educational campaigns in 200 municipalities. The experts travelling with the bus constitute an advisory group, offering free, independent and up-to-date knowledge connected to climate change and energy efficiency.

The Polish National Energy Conservation Agency
„Energy Bus” Campaign 2015–2017

Planned: Regional EE&RES campaigns in 16 voivodeships

Until today:, 80 trainings for municipal employees titled: „An office with the Climate”

Length of the route: 200 different locations; ? km.
Visitors: local inhabitants and schoolchildren, local authorities and local businessmen.
Form of activities: presentations and lectures, workshops and trainings.
Total project budget: 2,435,000 PLN, co-financing the National Fund for Environmental Protection and Water Resources

The Polish National Energy Conservation Agency

„Polish Energy Bus” Campaign 2003–2005, EU Funds

Length of the route: 40,000 kilometres, 258 different locations;
Visitors total: above 50,000 persons - inhabitants and schoolchildren, local authorities and local businessmen:
• above 3,000 presentations and lectures
• above 800 workshops and several dozen trainings
Implementing institutions:

- Danish Institute of Technology, DTI, Taastrup
- Polish National Energy Conservation Agency, KAPE

Project results and impact:

- 12 participants nominated by KAPE on the energy consultancy training in DTI Denmark (May 1995)
- 72 hours training curriculum in Polish developed by the trained (November 1995)
- 60 branch trainers from all Poland (Dec. 1995)
- Building Energy Consultancy Secretariat established in KAPE
- List of KAPE’s authorized energy consultants, created and available on a website
- A national wide training activities, 1996-2014 (including regional agencies)
- Ca. 4500 professionals (architects, construction, electrical and HVAC engineers) trained on voluntary basis
- 2011 – a legal name of ENERGY CONSULTANT withdrawn from the state regulated professions III
The Thermomodernisation Premium

- An obligation to submit an energy audit: all types of public and residential buildings, local heat plants and local DH networks as well as renewable and unconventional heat sources;

- Verification of energy audits is the basis of loan and premium applications to commercial banks and Bank of National Economy;

- The services for verification of the energy audits is contracted by the Bank of National Economy, BGK:
  - number of multi-family buildings thermomodernized: over 35,000
  - number of building energy audits verified by KAPE: over 18,000
  - number single family houses, 1700, only!

"Since launching the Thermomodernisation Fund in 1999 until 31.12.2015 a total amount of 2,005 milion PLN has been supplied from the state budget to the Fund to balance awarded Thermomodernisation Premiums". Source: BGK
Selected experiences

AUDITS AND ENERGY PERFORMANCE CERTIFICATES FOR BUILDINGS

- single and multiple family houses
- public use buildings
- industrial plant buildings
- trade centres and warehouses
- health care sanatoria
- others

PGE Elektrownia Opole SA
LOW-ENERGY BUILDING DESIGN STUDIO

- Modern design energy-efficient buildings to individual order;
- Assistance at every stage of the investment (while buying a land, analysis and expertise, multi-discipline projects, supervision, etc.);
- Assistance in obtaining funding from national programs and EU funds (subsidies for energy-efficient homes NF40 and NF15, Lemur Programme).

Demonstration family building in passive standard NF-15, Babice Stare
KAPE's design, commissioned May 2015

Kindergarten in passive standard NF-15
LEMUR programme – under construction

Residential building in low-energy standard NF 40
Warsaw, Sprawna Str. 33
LEMUR programme – visualisation

Town hall office buildings in low-energy standard NF 40
LEMUR programme – under construction approval procedures

Energy-efficient construction from the inside out, KAPE special edition, 2015
KAPE runs specialized trainings for engineers, architects, technical and economic personnel, industrial plant management personnel, energy supervisory personnel, consultants and designers catering to enterprises, and everyone who is interested in the issues of efficient energy management and use. The training curricula include:

- Legal issues (i.e. Energy Efficiency Law, White Certificates)
- Technology aimed at optimizing energy consumption
- Sources of financing of efficiency investments
- Renewable energy sources
- Other depending on the client.
Enhanced training with workshops on rational energy for top management and energy managers in industry

Appr. Trained: 600 MSc students of Warsaw University of Technology
2500 factory energy managers,
over 600 factory and large enterprises executive management

Energy saving exploitation of industrial gas and oil boilers
Condensate removal from steam distribution systems
Rationalization of lighting systems (traffic and industrial)
Energy efficient use of electrical engines
Effective exploitation and modernization of heating network
Rational compressed air management
Energy efficient usage of pump systems

Unique !!! Practical training on energy effective exploitation of industrial units
Since the entry into force of the Act on Energy Efficiency 2011 the President of the Energy Regulatory Office announced 4 tenders for the White Certificates.

KAPE conducted industrial energy audits in entities, confirming over 20,000 toe achieved due to EE investments. KAPE presented bids to the Energy Regulatory Office on behalf of its clients and successfully achieved total amount of 20,296 toe.

<table>
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<tr>
<th>White Certificate EE scheme 2012-2016</th>
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<td><strong>Tenders announced by president of the Energy Regulatory Office</strong></td>
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<td>I &amp; II tenders (2012 ; 2013)</td>
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<td>IVth tender (2015)</td>
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<td>Vth tender (2016)</td>
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EE Projects completed after 1 January 2011 can be submitted to tender!!!
Contribution in the implementation of the national Climate Change policy

DEVELOPMENT OF STRATEGIC DOCUMENTS:

- Low-emission Economy Plan (PGN);
- Sustainable Energy Action Plan (SEAP);
- Assumptions for Heat, Energy, and Natural gas supply Plans;
- Limiting low-stack-emission Plan (PONE);
- Sector programmes, analyses, and local energy strategies contributing to achieving the targets of the climate and energy package;
- Strategic evaluation of the environmental effects of the developed documents.

ACTION PLAN ON SUSTAINABLE ENERGY USE FOR WARSAW 2020 PERSPECTIVE,

- Guidelines for public use buildings in Warsaw aimed at ensuring and optimal economic standard for energy performance characteristics;

- GUIDELINES TO CARRY OUT PARTIAL MODERNIZATION OF LIGHTING IN SELECTED PUBLIC ROADS M. ST. WARSZAWY, 2011.

- ASSUMPTIONS FOR THE MODERNISATION OF STREET LIGHTING AT MUNICIPAL, POWIAT’S, PROVINCIAL AND NATIONAL ROADS IN THE CAPITAL TOWN OF WARSAW, 2015


FUNCTIONAL PROGRAM FOR THE RENEWABLE ENERGY TRAINING CENTRE
The competition evaluates energy savings gained through actions taken by municipalities decreasing energy use compared to two previous years.

Municipalities can put forward selected: public use buildings which underwent any work which decrease energy use (e.g. thermo-modernization); substation modernization; street lighting modernization; other energy saving measures for the local community.

The Competition begins in October each year, and ends with a gala in April the next.

The winner receives a statuette, a diploma, monetary prize and special awards funded by the sponsors.
Selected EU Funded Projects

- KAPE is one of the leading partners implementing EU and international projects in Poland
- through the implementation of educational and information projects KAPE raises awareness about energy efficiency and renewable energy sources in the country

<table>
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<tr>
<th>Project</th>
<th>Description</th>
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<tr>
<td>CA-ESD II</td>
<td>Joint action by countries of the EU to implement Directive 2006/32/WE on end use energy efficiency and energy services</td>
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<td>ECOWILL</td>
<td>Continuation of the &quot;ECODRIVEN&quot; project promoting energy efficient behaviour among drivers. The main aim is decreasing CO2 emissions and fuel consumption, increasing road safety by promoting eco-driving in Europe</td>
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<tr>
<td>Energy Neighbourhoods 2 – Energo Sąsiedztwa</td>
<td>The aim of the EnergyNeighbourhoods project is disseminating knowledge on best practices connected to energy saving in households, buying energy efficient products and services, among city inhabitants</td>
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<td>ESOLI</td>
<td>Increasing the use of intelligent outdoor lighting and removing obstacles, which limit the scope of investments in outdoor lighting management systems</td>
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<td>Project</td>
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<tr>
<td>GreenGasGrids</td>
<td>Increasing the European market of production, improving transfer conditions</td>
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<td>and connecting biogas to the distribution network by overcoming the most</td>
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<td>burdensome barriers in development</td>
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<td>Odyssee Mure 2010</td>
<td>Monitoring energy efficiency targets in EU countries and Poland</td>
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<td>Promo Bio</td>
<td>Promoting the use of biomass and supporting development and implementation</td>
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<td>of local/regional bioenergy plans (with focus on wood biomass) in selected</td>
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<td>European countries</td>
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<td>REQUEST</td>
<td>Supporting actions for removing barriers and obstacles on the way to</td>
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<td>widespread, and large scale thermo-modernization measures linked with raising</td>
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<td>the energy standard of buildings</td>
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<td>Smart Regions</td>
<td>Promotion of best practices in development and implementation of innovative</td>
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<td>energy services (IES) based on smart metering</td>
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<td>QualiCert</td>
<td>Unification of certification and accreditation methods for RES system</td>
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<td>installers</td>
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The Polish National Energy Conservation Agency

Your partner and advisor in efficient energy management

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