



MACEF' Short Portfolio as Consultant's Organization

Awards: ENERGY GLOBE National Award for 2012, The world award for sustainability, in support of UNIDO, UNEP and World Environment Day

Association MACEF – Macedonian Centre for Energy Efficiency

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Scientific multi-disciplinary non-for profit association

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Date of creation: 29.11.2002

- MACEF HAS ACCREDITATION TO PERFORM EDUCATION/TRAINING COURSES FOR ENERGY AUDITORS.
- MACEF IS LICENSED INSTITUTION FOR ENERGY AUDIT.
- MACEF IS LICENCED TO ISSUE CERTIFICATES ON ENERGY EFFICIENCY FOR OBTAINING BUILDING PERMISSION.
- MACEF IS LICENCED TO ISSUE CERTIFICATES ON ENERGY EFFICIENCY OF BUILDINGS (ENERGY PASSPORTS).

MACEF is a scientific multi-disciplinary non-for profit association, providing intellectual, technical and project management support services in the energy and environmental fields nationally and worldwide.

The Macedonian Center for Energy Efficiency - **MACEF** mission is to increase the Energy Efficiency (EE) and Environmental Protection at national level by capacity building, identifying and implementing EE measures in the cooperation with governmental institutions, local self-government units, engineers, donor organization and ecologists. Have no intellectual or financial ties to vendors, manufacturers and contractors, or to any other third parties

SERVICES

MACEF's mandate incorporates broad spectrum of services, such as:

- Promotion and implementation of EE measures to reduce the energy budget and protect environment;
- Energy Audits and Recommendation for EE reconstruction;
- Preparation of strategical documents and services for preparation of secondary legislation
- Introduction of EE measures and new technologies in the industry;
- Advisory and expert counseling for energy and drinking water efficient management;
- Development of Municipality Action Plans for EE;
- Development of energy sector related legislation including rulebooks;

- Participation in National Energy Policy Designs;
- HVAC engineering designs;
- Public buildings' heating and ventilation systems renovation thru applying modern EE methods;
- Energy Education and training for various target groups;
- Regional and international new technologies and best practices exchange;
- Measurements and preparation of EIA and IPPC licenses(A & B);
- Recycling and usage of municipal waste as an energy source;and,
- Policy analysis and recommendations for energy resources management and development.

OUR EXPERTS

MACEF[®] has over 40 active members, all proven and well established experts in their particular field of work. Mechanical, electrical, technological, environmental engineers, economists, public policy advisors and linguists represent the membership.

CONTEMPORARY DIAGNOSTICS

The successful realization of the Energy Efficiency projects is ensured with a variety of instruments for diagnostics, as follows: Thermal vision camera, air velocity and flow meters, common and infrared thermometers, thermal resistance meters (kW/cm²), small sized independent data loggers for temperature, moisture and light measurements, sound meters, lighting meters, computerized analyzer of boilers efficiency and pollutants emissions, hygrometers, water electrical conductivity and PH value measurement, revolution measurement (stroboscope) as well as linear velocity and more.

PORTFOLIO

MACEF[®] has accomplished remarkable portfolio record. Some of the recent activities are as follows:

- **Preparation of energy audits of public buildings, preparation of technical specifications and documentation and supervision; "Sustainable Energy Project" –GEF trust fund grant number TF057107. Carried out works:** Performing energy audits. Analysis of the data from the invoices for energy consumption and the gained results of the measurements and calculations. Preparation of energy audit reports. Performing basic designs from thermo technical installations, architecture and electro technical installations. Specification of materials for the provided measures and activities. Supervision during implementation of the provided activities.
Client: Ministry of Economy and World Bank/PIO Skopje, 04/2012 03/2013
- **Preparation of 3-year program for energy efficiency, one-year Action Plan for energy efficiency and energy audit of 26 facilities in the Municipality of Gazi Baba and 13 in the Municipality of Gjorce Petrov.** Based on a detailed energy audit of buildings and street lighting analysis prepared a 3-year Program for EE. Based on the developed two scenarios, proposed a one-year Action Plan for Energy Efficiency within the financial capabilities of the municipalities. The documents adopted by the Council of the Municipalities. **Carried out works:** Energy audit of buildings - schools and kindergartens. Specification of materials and labour for EE measures. Economic analysis of proposed measures. Measures for EE for street lighting (2 scenarios - replacement lights and LED lights). 3 year program for EE (2 scenarios). Action Plan for Energy Efficiency. Clients: Municipalities, 01-06/2012
- **Refurbishment of the Public building stock towards near Zero Buildings, EU 7th Framework Programme for Research, Technological, Development and Demonstration.** The main objective of the RePublic_ZEB project is to support the South-Eastern European countries to build up capacity and to rise EE awareness of the nZEB policy, to identify the criteria and definition of nZEB and to ensure the way to refurbish the existing public building stock toward nZEB. The provisions of the Energy Performance of Building Directive (EPBD) introduced in Article 9, "nearly Zero-Energy Buildings" (nZEB) which will be the starting point of the project, 2014-2017

- **Technical Documentation in the Field of Energy Efficiency Preparation**, July- September 2011, Client : Vardar Planning Region, The main task of the project was **to conduct energy audits of 7 facilities** in 5 municipalities that belong in the Vardar Planning Region. Based on energy audits of facilities to define the optimal EE measures for each facility. To **develop technical projects /design for all special measures** provided for – centralized heating facilities, repair of lighting systems and documentation for the replacement of windows.
- **Preparation of 3-years Program for Energy Efficiency, one-year Action Plan for Energy Efficiency and energy audits on 17 buildings**, January-May 2011, **Type of services provided: Energy audit on 17 buildings –schools and kindergartens; Specification of materials and labour for EE measures; Economic analysis of proposed measures; Measures for EE street lighting (2scenarios – replacement lamp and LED implementation); Evaluation of the energy and cost savings; 3 year program for EE (2scenarios); Action Plan for Energy Efficiency** Client : Municipality Centar
- **“Protecting Health from Climate Changes” –WHO, Phase I - Energy Audit of buildings** into Clinical centers of Stip and Gostivar and RES application, May 2009- Feb 10, Phase II - March 2010- March 2012, **Supervising implementation of solar collectors**; realizing the training of the hospital's staff for solar collector management; brochure for EE measures into hospitals prepared; Study on one year measurements of solar energy gains.
- **Development of the Third National Action Plan for Energy Efficiency**, Client: German International Cooperation (GIZ)
- **Cogeneration Plant for Hospital „8th September“ and PET Centre in Skopje**; Client: Ministry of Health of the republic of Macedonia; 2015; Techno-economical study on conversion of boiler plant to cogeneration plan, escorted with tender documentation.
- **Cogeneration Plant at Klinical Centre in Skopje**, Client: Ministry of Health of the republic of Macedonia; 2014; Techno-economical study on conversion of boiler plant to cogeneration plan with 3 MW capacity, escorted with tender documentation.
- **Development of the Second National Action Plan for Energy Efficiency**, Client: WINROCK/USAID, beneficiary: Ministry of Economy; 2013-2014
- **Increasing energy efficiency and use of renewable energy sources in the border region of the Republic of Macedonia and the Republic of Albania**, IPA Cross Border Collaboration, MACEF is a leader of the Project, The overall objective is to improve the quality of life through partnering plans, programs and actual activities for increased use of EE and RES among AL and MK cross border region. The project aims at lifting up to the next level the long term cooperation and partnering in exchanging of know-how for the particular areas to meet the contemporary needs for clean environment and decrease the overdependence on fossil fuels utilization in the region given the possibilities for utilization of sun, biomass and geothermal escorted with higher implementation of energy efficiency measures in accordance with EU Directives. The planned activities give a social inclusion dimension beyond the environmental impact to the population as well, 2012-2014
- **Reduce Energy Use And Change Habits- REACH**, Intelligent Energy Europe, REACH responds to the IEE 2013 call priorities because it fosters rational use of energy by triggering action in fuel poor households (vulnerable consumers): it provides tailor-made energy advice and further support, empowering them to change their energy use habits. To do this, it trains and engages teachers and students from vocational schools. It brings institutional capacity-building for decision-makers at local and national/EU level as it enables them to fully understand fuel poverty and provides them with solutions to tackle the problem, hence triggering preparation of needed new legislative or practical measures for addressing fuel poverty. 2014-2017
- **Triggering the market uptake of energy performance contracting through street lighting refurbishment projects**, The project therefore addresses the following main user needs and market barriers: To **support municipalities in phasing-out** of frequently used lamp types; With the current budgetary restraints, there is a **strong risk that many municipalities will chose inefficient, short-term solutions** instead of high-efficiency and long-lasting technologies (mostly LEDs); This will be done through a coherent approach of **developing regional markets for Energy Performance Contracting** through EPC facilitation services as street lighting is an excellent learning and testing ground for EPC - both for public bodies as clients as well as for SMEs aiming to become an ESCO; The regional approach allows also to put a special **focus on smaller municipalities** which find adopting EPC especially difficult. 2014-2017
- **Towards resource efficient urban communities in SEE**, South East Europe Transnational Cooperation Programme, The project specifically tackles 2 major elements linked to resource efficiency, i.e.

energy and waste, in an integrated manner. This way it sheds light on the challenges of energy consumption and waste production and disposal (e.g. current unsustainable tendencies), but also the interrelations and opportunities thereof (e.g. awareness raising among consumers to boost energy saving, waste valorisation, efficient landfill utilisation, more coordinated and efficient exploitation of RES, etc). 2012-2014

- **Training of local administration of 5 municipalities to prepare necessary documents in the EE sector.** Training about the questionnaire and data gathering. Training for setting goals for energy saving, improvement measurements, calculations and usage of the RETScreen software. Training about the structure and Energy Efficiency programs and Annual plans development. **Client** UNDP. **Beneficiary:** 5 Municipalities., 2012
- **EUbuild Energy Efficiency,** To contribute the development of the financial instruments and mechanisms in order to build up the market for energy efficient products and methods in the partner countries **Client:** DG Enlargement, 12/2010 - 2012
- **EBRD/EU Western Balkans Sustainable Energy Financing Facility,** Regional project in cooperation with E3 International, engineering and marketing support to the Facility, June 2010 – December 2012
- **Widening the use of thermal solar energy by successful models,** project financed by IPA as part of the SEE Transnational Program, March 2010 – may 2012
- **Green for growth Fund,** Local Focal Point and Liaison with the local participating bank, March 2011 – October 2014- on going
- **Capacity building for energy management in cities – Preparation of SEAP- Sustainable Energy Action Plan for City of Skopje.** Main features of the project: Defining measures to reduce emissions of CO₂ by over 20% by 2020 under the Treaty of Mayors (Covenant of Mayors). i) City specific energy needs analysis; ii) Description of the types of actions envisaged, iii) The criteria adopted for selection and justification of actions to be included in the final SEAP iv) Further information required to evaluate feasibility of actions and to decide for an ultimate inclusion of them in the final SEAP. **Client:** GTZ/GIZ, **Beneficiary:** City of Skopje, 06/10-05/11
- **Kochany' Geothermal Project Development,** Reviewer of the Project documentation, consulting services, 2009/10
- **Sustainable Energy Action Plan for the City of Skopje,** "Capacity building for energy management in cities" regional project initiated and funded by the Open Regional Fund for South East Europe – Energy (ORF-E), supported by GIC, Collaboration with REGEA, June 2010- May 2011
- **Preparation of National Energy Efficiency Strategy till 2020,** Client: IRG/USAID, beneficiary: Ministry of Economy; 2009-2010
- **Development of National Action Plan for Energy Efficiency,** Client: IRG/USAID, beneficiary: Ministry of Economy; 2009-2010
- **Balkan Regional Residential Energy Efficiency Report,** client IFC, December 2009
- **Carbon Emissions Reduction in the high Schools in Macedonia,** July – November 2009, client: Norsk Energy
- **Energy Efficiency Study for the City of Skopje,** July-November 2009, client: City of Skopje
- **Dispersed production of energy with natural gas in Skopje,** Data Base for Bigger Consumers, client: Energy Agency of the Republic of Macedonia, 2008/2009
- **"Combined power plant 30MW – KOGEL-SEVER"** – Development, Design, Consulting for Project Documentation of Power Plant, assistance in preparation of the PDD documentation for the power plant – CER/CDM, May 2006- 2011
- **Development of "Rulebook for Energy Performance of Buildings"** – 2008
- **Short overview of status for Investment in Utility Infrastructure Sector in South-East European Transition Countries,** Client: Energy Engineering and Consulting Agency "Nadasky EC", 2008
- **Mechanical, water and electrical installations design for a Tobacco Factory –STVL SOKOTAB,** 2007

- **Affordability of Utility Services in Urban Housing: Energy and Water Efficiency Solutions for Europe & Eurasia**, Project. Client: Alliance to Save Energy (USA) in collaboration with EnEffect (BG) and Institute “Hrvoje Pozar” (CR), 2005 - 07.
- **“Decreasing of pollution using energy efficiency measures in the Medical Clinical Centre in Bitola”**, Study work financed by Ministry of Environment and Physical Planning, 2005-06.
- **“Decreasing of pollution from boilers using energy efficiency measures in the Medical Clinical Centre in Skopje”**, Study work financed by Ministry of Environment and Physical Planning, 2004-05.
- **Urban Heating in Europe & Eurasia: Experience from the Transition and Future Directions**. Client: Alliance to Save Energy (USA), collaboration with EnEffect (BG) and the Institute “Hrvoje Pozar” (CR), 2005 - 06.
- **Environmental improvements by Implementation of Energy Efficient Equipment and Renewable Energy Sources in the Medical Centre for Rehabilitation in Skopje**. Beneficiary: Medical Centre for Rehabilitation in Skopje. Client: Ministry of Environment and Physical Planning, 2006.
- **“Intelligent use of energy”** – EVN Educational Project for primary school children – MACEF is implementer of the project, October 2007, on- going
- **Prime implementer of the Macedonian Municipal Network for Energy Efficiency - MAMNEE** where the Municipalities of Gjorce Petrov, Saraj, Centar, Kicevo, Gazi Baba, Kicevo and Kisela Voda are members, 2005 – on going.
- **Public Education Campaign** – USAID and Ministry of Economy as client. MACEF is subcontractor of IRG, USA. March 2009 – 2010
- **Energy Audit and Energy Efficiency of buildings and facilities** – 6 Months Specialized Training Course for the Energy Agency of the Republic of Macedonia, Ministry of economy- Department for energy and natural resources – September 2008 – March 2009
- **Energy Efficiency in Buildings and energy data gathering for buildings under the authority of the City of Skopje** – Specially designed training with application of ENSI software, Administration City of Skopje representatives – September 2008 – 2009
- **Sustainable Energy Europe 2005-2008 Program Project, Energy Days** - Macedonia 2007(International Forum on Renewables and EE, Municipal Competition for Best EE Municipality for 2007, EE Quiz and Art Colony for primary Schools)
- **Two Energy Efficiency Workshops in Schools 6 schools and 6 municipalities in cooperation with the USAID Primary Education Project**. May 2007.
- **Municipal Energy Efficiency Planning Activity for the municipalities of Saraj, Karpos, Centar and Gevgelija**. Project supported by the Norwegian Government and partially UNDP, 2005 - 07.
- **Municipal Energy Efficiency Planning for the municipalities Gazi Baba, Kisela Voda, Gjorce Petrov and Kicevo**. Financed by MACEF, 2006-07.
- **Macedonia Municipal Energy Efficiency** Program in collaboration with International Resource Group (USA) and EnCon Services (USA). Client: USAID/DAI, FUND MDW/ MGGF, 2005 - 06.

TRAINING

MACEF's members prepared, conducted and took active participation in numerous training courses and workshops, among which are:

- Hosted Energy Auditors Workshop, March 2011, in cooperation with IK Bank, done by *Finance in Motion*, Germany for the Green for Growth Fund
- Energy Auditors Training – 2010 March – 2011, in cooperation with Faculty of Mechanical Engineering, Architecture and Civil Engineering Faculty as well as ENSI from Norway


- Development and Implementation of an Energy Efficiency Training Programme for Municipalities (RFP 191201 0), UNDP, 2010
- Energy Auditors Training – 2008 July- 2009 April, in cooperation with Faculty of Mechanical Engineering, Architecture and Civil Engineering Faculty as well as ENSI from Norway
- “Cut on energy budget for the City of Skopje” – Training course for the city administration for establishing and update of Energy Database for Buildings and Street Lighting under the authority of the City of Skopje including EE audits of two buildings, August 2008 – February 2009
- “Energy Database for Municipalities”, training for municipal representatives - Cair, Resen, Kocani, Berovo, Aerodrom; November 2007- 2008
- Two Energy Efficiency in Schools 6 schools and 6 municipalities in cooperation with the USAID Primary Education Project. A publication was printed along. May 2007.
- MACEF was the Country Coordinator for UNESCO Distant learning Project Desire-net. 32 countries involved, 10 months duration, 2006-07.
- Key Number Software, Financed by Norwegian Government, Train the Trainers course for representatives from the Sts. Cyril and Methodius University. Financed by the Norwegian Government in collaboration with Norway’s consulting company ENSI, 2005-07.
- Organized 4 panel discussions: “Energy Efficiency – Measure to reduce Energy Poverty in Municipalities” of Skopje, Kavadarci, Mavrovo and Kocani, 2004.
- MACEF organized 4 training courses in the municipalities of Skopje, Mavrovo, Kavadarci and Kocani – “Energy Efficiency and municipality costs” in 2003.
- Attended the Energy Reform and Social Safety Net Regional Conference on Alternatives to Ease Transition, Sofia, October 2004.
- Lectured in the course on EE measures implementation in Macedonia in organization of Proactiva NGO, 2003.
- Organized and realized international MACEF RENEUER workshop in Struga, October 2002, named "Efficient Management with Energy and Drinking Water - collaboration with NGOs with published proceedings from that workshop.

ENERGY AUDITS

- The Center has performed over 150 public building Energy Audit and feasibility studies to improve their energy performance.
- Prepared a Study work: “Decreasing of pollution using energy efficiency measures in the Medical Clinical Centre in Bitola”, financed by Ministry of Environment and Physical Planning, 2005-06.
- Prepared a Study work: “Decreasing of pollution from boilers using energy efficiency measures in the Medical Clinical Centre in Skopje”, financed by Ministry of Environment and Physical Planning, 2004-05.

ENERGY EFFICIENCY PUBLIC AWARENESS

MACEF  is continuously issuing monthly buleteen **InfoMACEF**. Last is number 154 (over 12 years)!!

MACEF  raises EE awareness through PR, exhibiting and organizing various events with technical approach:

- Macedonia Energy Days 2013 Organizer, Part of the project RE SEE
- Macedonia Energy Days 2012 Organizer,

- Macedonia Energy Days 2011 Organizer, part of the Project EUBuild
- Macedonia Energy Days 2010 Organizer, cooperation with Turkish company IGDAS
- Pilot Kindergarten project – rational use of water and energy – 2007
- Energy Days 2009 Organizer – Supported by the World Bank Open Society Fund, Austrian Development Agency and GTZ. October 2009.
- Energy Days 2008 Organizer - parthering with the Macedonian Academy of Arts and Sciences, Energy Agency of the Republic of Macedonia. 4-Day Event, International Conference, Open Day-Info Booth for the Citizens, Lecture at Amerian College University, Energy Efficiency workshop for Kindergarten Teachers.
- Energy Days 2007 Organizer – parthering with the City of Skopje, Public Utilities, MAKSTIL, Faculty of Mechanical Engineering and FEIT. Exhibition of solar panel producers. 4-Day event including International Conference. First competitions for Best Energy Efficient Municipality 2007.
- Energy Days 2006 Organizer. Presentation of achievements accompanied with participation of brand name companies as Philips, Trane, Weishaupt, Weisman, Siemens, Jarnforsen, and Fonko. Over 200 attendees.
- Energy Week 2004 Organizer. Exhibitions and 5 day courses including international workshops, seminars, forums, and panel discussions coupled with presentation of EE equipment and diagnostic devices. Over 250 participants attended the events.
- Participation at the 1st and 2nd International Fair of Energy, dedicated to efficient, ecological and economical technique, technology and equipment, in 2003 and 2004.
- Attendance of the 3rd and 4th NGO Fair - Civic Society Forum in Macedonia in 2003 and 2004.
- Daily communication and updates for the Media.
- 12 workshops (for pupils and teachers in primary schools) within the project "Energy Resources - Visa for green future", financed by the World Bank, November 7-2011, South East Municipalities in Macedonia
- Workshops with kids in kindergartens „**Fundamentals of energy for kindergarten (from age 4 to 6) - Pilot project for kindergarten**“ - supported by JOUDG "Orce Nikolov", Skopje 2007
- **School project - Rational use of energy and energy sources (2007 – on going).** MACEF is an expertise partner in this project, due to this, we have held many workshops with pupils in primary schools in the North-Central part of Republic of Macedonia. 300 primary schools are visited, 1.530 educational classes delivered that covered 35.000 pupils, Project financed by EVN Macedonia
- **6 Open Days** for Introducing EE & use of RES among citizens:
 1. **Open Info Day "I want solar collector"** at Macedonia Square, Skopje (June 9th, 2012), EU Project from SEE Programme, [WidetheSEE](#)
 2. **Open Day "Buy a solar collector - Apply for a grant"** at the Old Bazaar, Skopje (April 13th, 2013) in cooperation with Municipality of Chair and the Ministry of Economy of Republic of Macedonia
 3. **Open day for EE & RES**, City center, City of Struga, [IPA Project "IRECo"](#) from the CBC Programme for Macedonia – Albania, July 8th 2014
 4. **Open day for EE & RES**, City center, City of Debar, [IPA Project "IRECo"](#) from the CBC Programme for Macedonia – Albania, July 24th 2014

5. **Open day for EE & RES**, City center, City of Ohrid, [IPA Project "IRECo"](#) from the CBC Programme for Macedonia – Albania, July 25th 2014
 6. **Open day for rational use of waste and energy** (in progress), City centre str. Makedonija, Skopje, (September 26th 2014), EU Project from SEE Programme,
- **„Creating Policy Seminar”** for increased usage of hot water from solar thermal collectors in households in Macedonia, Skopje, (October 21st 2010), EU Project from SEE Programme, [WidetheSEE](#)
 - **International conference „Towards favorable conditions for increased use of solar thermal devices in households and industry“**, Skopje, March 3th 2011, EU Project from SEE Programme, [WidetheSEE](#)
 - Round table **„Economic Engineering or Engineering Economics?”**, Skopje, May 2012, EU Project, DG Enlargement Programme, [EUbuild Energy Efficiency](#)
 - Round table **"Financial instruments for financing energy efficiency in the construction sector in Macedonia"**, Skopje, 2012, EU Project, DG Enlargement Programme, [EUbuild Energy Efficiency](#)
 - Round table **"Unfavorable credit conditions or low awareness about the actual costs of building intelligently? - Challenges for financing energy efficient civil engineering sector in Macedonia"**, EU Project, DG Enlargement Programme, [EUbuild Energy Efficiency](#)
 - Regional Conference **"We have invested in EE buildings – did you?"** EU Project, DG Enlargement Programme, [EUbuild Energy Efficiency](#)
 - Debate "Preliminary designs versus realized projects", EU Project, DG Enlargement Programme, [EUbuild Energy Efficiency](#)
 - Workshop with kids in kindergarten, Fundamentals of energy for kindergarten, Skopje, 2014, EU Project from SEE Programme, [RE-SEETies](#)

PARTNERSHIPS

The Macedonian Center for Energy Efficiency kicked off in December 2002 supported by the Alliance to Save Energy and becoming a member of the Regional Network for Efficient Use of Energy and Water Resources – RENEUER. Keeping abreast with latest achievement in the field **MACEF** is partners with many organizations and networks.

MACEF was official partner with the USAID Primary Education Project in its Energy Efficiency Renovation Component contributing with its expertise in several areas such as energy efficiency training for school managers, staff and municipalities and student basic energy training. The cooperation will be progress till 2009.

MACEF has an ongoing cooperation agreement with University American College, Private Scientific Institution- Mining Institute Skopje, Chamber of Commerce of the Republic of Macedonia Department for air treatment, heating, ventilation and the cooling and fruitful collaboration with

Ministry for economy, Ministry for environment and physical planning and Institute for Standardization for the Republic of Macedonia.

MACEF partners with the Sustainable Energy Europe 2005-2008 and 2009 -2013 Program with two campaigns: Sustainable Energy Communities and Citizenship Energy Days. The locally undertaken activities are the Energy Efficiency at Municipal Buildings 2007-2008 as well as Macedonia Energy Week 2007.

MACEF is an EU DG Energy and Transport managenergy network national focal point and local coordinator for the BISE Forum – International Building Integration for Sustainable Energy among another 21 European countries. MACEF is local partner for the UNESCO Distant learning project DESIRE-NET, bringing Macedonia audience closer to the latest trends in the field of energy efficiency, sustainable energy development and the use of renewables.

PUBLICATIONS

The Center' scientific, research and publishing work is outstanding. In the focus of electronic publications are the web and the monthly electronic newsletter.

MACEF website, www.macef.org.mk, both in Macedonian and English language is frequently updated. The newsletter has a day-to-day growing readership featuring latest developments in the energy and environmental sector around the world. The first edition of the monthly Info **MACEF** was published in April 2003.

Story and coloring books for kids– 2008, 2009, 2010, 2011

Decrease your energy budget- December 2008

First Edition of the German – Macedonian Glossary of terms and expressions in the field of energy efficiency in cooperation with GTZ, May 2008.

A book "The Water is irreplaceable and limited" targeting relevant Municipal public enterprises was published.