

FEIT - Research and Development Projects

Institute for Power Systems

1. INTERNATIONAL RESEARCH PROJECTS

1. UKIM/FEIT – EU CP, “Technical Assistance for Implementation of the 3rd Energy Package Compliant Legislation in the Republic of Macedonia”, TA for ERC, Norwegian Ministry of Foreign Affairs, 2015 – 2017.
2. EU consortium, UKIM/FEIT – member of consortium, "Meeting of Energy Professional Skills – MEnS", 649773 – MEnS – H2020-EE-2014-2015/H2020-EE-2014-3-MarketUptake, 2015 - 2017.
3. EU consortium, UKIM, FEIT – member of consortium, "The SAME World", project is co-funded by the European Commission, 2015 -2017.
4. UKIM/FEIT – EU CP, “Technical Assistance for Institutional Framework for Establishing a National/Regional Power Exchange”, TA for ERC, Norwegian Ministry of Foreign Affairs, Grant Letter for MAK 13/0012, 2014 – 2017.
5. UKIM/FEIT, “Integration of South East Europe into the Internal Market for electricity under the specific aspect of the TSO’s role”, Study for the Southeast Europe Cooperation Initiative (SECI), Vienna, Austria, August 2010 – July 2011.
6. EU-WB consortium, UKIM, FEIT – member of consortium, “South-East European TSO Challenges (SEETSOC), EC Funded Project, VII Framework, 2010 – 2012.
7. EU-WB consortium, UKIM, FEIT – member of consortium, "Capacity building for Monitoring, Verification and Evaluation (M&V&E) of the Energy Efficiency Policy in SEE countries in terms of the EU accession process", Contract No. 83072430, Processing Number 08.2016.7-005.00, 2010 – 2011.
8. EU-WB consortium, UKIM, FEIT – member of consortium, “Intelligent Monitoring, Control and Security of Critical Infrastructure Systems (INTELLICIS)”, COST Action IC0806, 2009 - 2013.
9. EU-WB consortium, UKIM, FEIT – member of consortium, “Energy efficiency in large scale distributed systems”, COST Action IC0804, 2009 – 2013.
10. EU-WB consortium, UKIM, FEIT – member of consortium, “Advanced Architectures and Control Concepts for More Microgrids (MORE MICROGRIDS)”, New technologies for energy carriers - Electricity, STRP, January 2006 - January 2009.
11. EU-WB consortium, UKIM, FEIT – member of consortium, “VBPC – RES Virtual Balkan Power Centre for Advance of Renewable Energy Sources in Western Balkans”, INCO project for WB countries under the 6th FP, Project Reference Number: FP6-509205, 2005 - 2007.
12. EU-WB consortium, UKIM, FEIT – member of consortium, "Renewables for Isolated Systems – Energy Supply and Waste Water Treatment (RISE)", Specific research and technological development programme "Integrating and strengthening the ERA", EC Contract No INCO-CT-2004-509161, November 2004 - November 2007.

2. INTERNATIONAL CURRICULUM DEVELOPMENT PROJECTS

1. EU-WB consortium, UKIM, FEIT – member of consortium, “Joint Advanced Doctoral Degree in Energy Systems (JADES)”, Curriculum Development Programme, EC Tempus Joint European Project, May 2008 – April 2011.
2. EU-WB consortium, UKIM, FEIT – member of consortium, “South East Europe Continuing Education Network”, (SEECEN), TEMPUS JEP 41154 2006, 2007 – 2009.

3. EU-WB consortium, UKIM, FEIT – member of consortium, "Cost-Effective & Environmentally Friendly Energy Systems (CEFES)", Curriculum Development Programme, EC Tempus Joint European Project No CD_JEP-18126-2003, September 2004 - August 2007.

3. NATIONAL PROJECTS & FEIT PROJECTS

1. R. Taleski, J. Angelov, V. Borozan, P. Krstevski, "Determination of Power System Transmission Capacities under Conditions of Liberalized Market by Applying Linear Optimization Method with Reactive Power Concerns", Research Project financed by UKIM/FEIT, June 2014 - May 2016.
2. R. Taleski, P. Krstevski, A. Krkoleva Mateska, J. Angelov, "Implementation of Optimal Power Flow Methods on Interconnected Power Systems in Liberalized Electricity Market Environment", Research Project financed by UKIM/FEIT, June 2014 - May 2016.

Institute for Electrical Machines, Transformers and Apparatures

1. INTERNATIONAL RESEARCH PROJECTS

1. EU-WB consortium, UKIM, FEIT – member of consortium, "Sustainable Management of Forest Biodiversity Applied to the Production of Energetic Biomasses as an Implementation Tool of an Economic Activity in the Marginal Mountain Areas (BIOWOODCLUSTER)", CIP-IEEE 2013.
2. Bilateral Macedonian-Slovenian scientific and research project, "Development of Energy Efficient Electrical Machines Using Novel Materials, Technologies and Topologies", financed by the Ministries for Education and Science of Republic of Macedonia and Republic of Slovenia, 2009.
3. Bilateral Macedonian-Croatian scientific and research project, "Investigation of the Power Systems for Production of Clean Electric Energy", financed by the Ministres for Education and Science of Republic of Macedonia and Republic of Croatia, 2008.
4. Bilateral Macedonian-Slovenian cooperation, "Finite Element Method Application in Design and Analysis of Electrical Machines", financed by the Ministries of Education and Science of Republic of Macedonia and Republic of Slovenia, February 2006 - February 2008.

2. NATIONAL PROJECTS & FEIT PROJECTS

1. K. Najdenkovski, M. Celeska, V. Stoilkov, G. Rafajlovski, G. Cvetkovski, M. Dugalovski, "Application of Renewable Energy Sources Autonomous, Hybrids and Network Connected Systems", Research Project financed by UKIM/FEIT, June 2014 - May 2016.

Institute for Electrical Measurements and Materials

1. INTERNATIONAL RESEARCH PROJECTS

1. EU-WB consortium, UKIM, FEIT – member of consortium, "Technical assistance for capacity building of the Bureau of Metrology Europeaid/129224/C/SER/MK-Report of the National Needs in the Fields of Legal, Scientific and Industrial Metrology", Project financed under the IPA 2008 programme of the EU, 2011 - 2012.

2. Bilateral Macedonian-Croatian scientific and research project, "Metrological Research and Development of Methods and Procedures for Measurement of Electromagnetic Quantities", Financed by the Ministry of Education and Science of R. Macedonia and the Ministry of Science, Education and Sports of R. Croatia, 2007-2009.

2. INTERNATIONAL CURRICULUM DEVELOPMENT PROJECTS

1. EU-WB consortium, UKIM, FEIT – member of consortium, "Creation of the Third Cycle Studies-Doctoral Studies in Metrology", EU TEMPUS IV Jount Multicountry Project, 2010-2013.
2. EU-WB consortium, UKIM, FEIT – member of consortium, "Introduction of Two-tier Studies of Metrology", EU TEMPUS JEP CD 19010 2004, 2005-2007.

3. NATIONAL PROJECTS & FEIT PROJECTS

1. M. Cundeva-Blajer, V. Dimcev et.al., "Accreditation of the Laboratory for Electrical Measurement-Calibration Laboratory of Electromagnetic Quantities according to ISO/IEC 17025:2006", Project financed by FEIT, 2014-2015.
2. M. Stankovski, M. Cundeva-Blajer et.al., "Enhancement of the Laboratories' Capacities of the Faculty of Electrical Engineering and IT for Scientific and Research Activities, Accreditation and Promotion for Industrial Cooperation", Project financed by UKIM, 2014-2015.
3. M. Cundeva-Blajer, L. Arsov et.al., "Research of Computer Aided Methods in Metrology", Scientific project financed by FEIT, 2011-2012.
4. L. Arsov M. Cundeva-Blajer, et.al., "Development of Calibration and Improvement of the Measurement Capability in the Field of Low Voltage", Scientific project financed by FEIT, 2011-2012.
5. L. Arsov, M. Cundeva-Blajer et. al., "Improvement of the Technology and the Technological Process and Introduction in the Production New Types of Electrical Cables", R&D project financed by the Ministry of Education and Science of R. Macedonia in cooperation with Zdenka-Negotino, 2009-2010.
6. M. Cundeva-Blajer, L. Arsov et. al., "Development of new product: Software for laboratory management and quality assurance", R&D project financed by the Ministry od Education and Science of R. Macedonia in cooperation with SIMT-Skopje, 2009-2010.
7. M. Cundeva-Blajer et. al., "Improvement of the technology and the production process of power cables", R&D project financed by the Ministry of Education and Science of R. Macedonia in cooperation with Alevado DOO-Veles, 2007-2008.
8. L. Arsov, M. Cundeva-Blajer et. al., "Development of a new product-Electronic Electricity Meter with LCD and embedded clock with four tariffs, modem 220 V and optical link", R&D project financed by the Ministry of Education and Science of R. Macedonia in cooperation with DOOEL Energetika VDS-Strumica, 2007-2008.
9. L. Arsov, M. Cundeva-Blajer et. al. "Development of methods procedures for measurement, calibration and uncertainty estimation of electromagnetic quantities", Scientific project financed by the Ministry of education and science of R. Macedonia, 2006-2009.

Institute for Electroheat, Electrical Welding and Electrical Traction

1. INTERNATIONAL RESEARCH PROJECTS

1. COST countries consortium, UKIM/FEIT – member of consortium, “Built Environment Wind Energy Technology towards enhancement of the Smart Cities concept”, TUD COST Action TU1304, MC Member [TU1304 MK], 2014-2018.
2. EU-WB consortium, UKIM/FEIT – member of consortium, “Low Carbon Technologies to Green the Industry”, REGIONAL PROJECT ON LOW CARBON TECHNOLOGIES, financed by UNIDO, October 2013 – today.
3. EU-WB consortium, UKIM/FEIT – member of consortium, “Low Carbon Production in the Agro-Industry in Republic of Macedonia”, NCPC - 2nd phase, project financed by Federal Ministry for EIA- Austria, 2012-2014.
4. EU-WB consortium, UKIM/FEIT – member of consortium, “Low Carbon Production in the Agro-Industry in Republic of Macedonia”, NCPC – 1st phase, project financed by Federal Ministry for EIA- Austria, 2010 – 2012.
5. EU-WB consortium, UKIM/FEIT – member of consortium, “Resource Efficiency and Cleaner Production in Agro business Sector in Macedonia”, UNIDO, UE/MCD/10/002, 2010 – 2012.
6. UIE working group 2, “Power Quality”, Project funded by International Union for Electricity Applications, 2009-2012.
7. EU-WB consortium, UKIM/FEIT – member of consortium, “Cleaner Production Technologies in Macedonian Industry” - 2nd phase, UNIDO, UEMCD10157, 2008-2010.
8. EU-WB consortium, UKIM/FEIT – member of consortium, “Programme for Cleaner Production Technologies” - 1st phase, UNIDO, UEMCD10001, 2007-2008.
9. EU-WB consortium, UKIM/FEIT – member of consortium, “Upgrading the research capacities for safety and health effects of human exposure to electromagnetic fields (SAFE-EMF)”, Project No. INCO-CT-2007-043638, 01.04.2007 to 30.06.2009
10. “Joint project for collaboration of the departments of theoretical electrical engineering of the Technische Universitaet Ilmenau and of universities in South Eastern Europe”, Project of Stability Pact for South Eastern Europe financed by Germany, 2004-2008 and 2008 - 2012.

2. NATIONAL PROJECTS & FEIT PROJECTS

1. S. Cundeve, G. Cvetkovski and others “E-mobility - Construction of electrical carting”, Research Project financed by UKIM/FEIT, 2015-2018.
2. S. Cundeve, M.Bollen, M. Todorovski, A. Krkoleva and others “Voltage Dip Immunity of Equipment and Installations”, Research Project financed by FEIT, 2011 – 2012.
3. S. Cundeve, M. Cundeve-Blajer, V. Arnautovski-Toseva, "Application of modern software tools for modelling and simulation in the secondary electro technical vocational schools", Accredited training of the teachers financed by the Project for Modernization of the Education (FEIT-Skopje, Ministry of Education and Science of R. Macedonia, Bureau for Development of the Education in co-operation with the World Bank, 2007 - 2008.
4. S. Cundeve, V. Filiposki, Development of microprocessor based systems for maintenance and modernization of machines in printing industry, Ministry of Education and Science of R. Macedonia, 2007-2008.

Institute for Mathematics and Physics

1. INTERNATIONAL RESEARCH PROJECTS

1. MK Consortium, "Preparation Activities for Making a Decision on entering into New Nuclear Energy Program in Macedonia – Phase 1, Part II", IAEA – MAK, 2016-2017.
2. MK Consortium, "Build Up Skills – Builder's Energy Efficiency Training (BEET)", Intelligent Energy Europe, 2014-2016.
3. MK Consortium, "BuildUpSkills MK- Capacity building of the construction sector on the application of energy efficiency measures and the use of renewable energy sources", Intelligent Energy Europe, 2012-2014.
4. MK Consortium, "Supporting Preparation Activities for Decision Making for a New Nuclear Energy Programme", IAEA-MAK 2006, 2014-2015.
5. MK Consortium, "Upgrading the Training Laboratory for Nuclear Science (Phase II)", IAEA-MAK0005, 2009-2010.
6. International Consortium: 23 countries from EU and Asia, "Improving Educational and Training Capabilities in Nuclear Science and Applications", IAEA– RER0028, 2010-2012.
7. MK-Italy Consortium, "Establishing Centre for implementation of low-cost technologies for solar cells in Macedonia", CEI – KEP, 2009.