

List of research grants and contracts

National research grants

1. *The software decision support platform for optimum ecological design of electrical installations with local energy production and storage, in the context of increasing the energy efficiency*, Grant PN-III-P2-2.1-CI-2018-1128, Contract 192CI/25.07.2018 (Director)
2. *Integrated management and control platform for energy carrier flows to increasing the energy efficiency at SMEs*, Grant PN-III-P2-2.1-CI-2017-0190, Contract 105CI/25.07.2017 (Director).
3. *Innovative software platform for energy management of final consumers to increasing the energy efficiency and reduce the carbon emissions*, Grant PN-III-P2-2.1-CI-2018-1017, Contract no. 174CI din 04/07/2018 (Member).
4. *Smart management of virtual power plants using software platforms based on Artificial Intelligence, in the context of European energy competitiveness*, Grant PN-III-P2-2.1-CI-2018-1011, Contract nr. 173CI din 02/07/2018 (Member)
5. *Integrated system for optimizing the energy consumption of the pumping groups from the irrigation systems*, Grant PN-III-P2-2.1-CI-2017-0169, Contract 17CI/25.07.2017 (Member)
6. *Software tool to manage the transactions in the electricity market*, Grant PN-III-P2-2.1-CI-2017-0328, Contract 45CI/25.07.2017 (Member)
7. *Development of the research platform for efficient and sustainable energy - ENERED*, Grant 911 / SMIS-CSNR 13987, Financing contract: 430 / 21.12.2012, 2012 – 2106 (Member)
8. *Smart congestion prediction and control system in transmission and distribution networks*, Grant PNCDI II, contract nr. 22126 / 01.10.2008, 2008, (Member)
9. *Artificial Intelligence techniques and new models for the development of load studies for the efficient use of electricity under the conditions imposed by the functioning of the electricity market*, Grant CNC SIS tip A, cod 241, (Member)

National research contracts with the economic partners

1. *Energy losses forecasting for the electricity network in the activity area of Delgaz Grid for the year 2019*, 2019, Beneficiary: Delgaz Grid. S.A (Member)
2. *Energy losses forecasting for the electricity network in the activity area of Delgaz Grid for the year 2018*, 2018, Beneficiary: Delgaz Grid. S.A (Member)
3. *Energy losses forecasting for the electricity network in the activity area of Delgaz Grid i for the year 2017*, 2017, Beneficiary: Delgaz Grid. S.A (Member)
4. *Elaboration of the study - Specialized consulting services in the EON Moldova Distribution Project of technical losses reduction in electricity distribution networks for 2016*, 2016, Beneficiary: EON Distribuție Romania S.A. (Member)
5. *Specialized consulting services in the EON Moldova Distribution Project of technical losses reduction in distribution networks*, 2014, Beneficiary: E.ON Moldova Distribuție S.A. (Member)
6. *Study on the verification of the protection schemes against direct lightning strikes in the case of the 220/110/20 kV electric station Munteni. Comparative analysis of the standard method and of the electrogeometric method*, 2013, Beneficiary: CN Transelectrica SA, Branch Bacău (Member)
7. *Study to determine the energy losses in the low voltage networks related to Bacău county, belonging to E.ON Moldova Distribuție S.A*, 2011, Beneficiary: E.ON Moldova Distribuție S.A (Member)
8. *Placement of power sources in the 110 kV and medium voltage distribution networks of S.C. E.ON Moldova Distribuție S.A. according to the criterion of the minimum energy losses and the proximity of the sources by consumers and study on regarding the compensation and control of the reactive power in order to optimize the voltage level in the 110 kV networks of S.C. E.ON Moldova Distribuție S.A*, 2006, Beneficiary: E.ON Moldova Distribuție S.A (Member)
9. *Use of Artificial Intelligence techniques to increase the performance of electricity transmission networks*, 2002, Beneficiary: Transelectrica SA –ST Bacău (Member)
10. *Software for planning and analyse of electricity distribution networks*. 2002, Beneficiary: SC. FDFEE Electrica Moldova S.A. Branch: Iași, (Member)

- P11.** *Multi-objective model for optimizing the planning of electrical distribution networks through fuzzy techniques*, 2000, Beneficiary: SC. FDFEE Electrica Moldova S.A. Branch Iași (Member)
- P12.** *The allocation of the costs of the transport services on network nodes taking into account the specific requirements and restrictions of the transport networks in Romania*, 2002, Beneficiary: STD Bacau (Member)
- P13.** *Analysis of the contingences from the 400/220/110 kV networks in the STD Bacau area in order to optimize the withdrawal program from operation*. 2000, Beneficiary: STD Bacau (Member)
- P14.** *Calculations using fuzzy techniques in the 110 kV network of Galati SDEE: load simulation; calculation of regimes; optimizing the operation of the network*. 2000, Beneficiary: SDEE Galați (Member)