

# LIST OF PROJECTS

## A. Project Manager in Grants

[A1] **TUCN Internal Project CI2017\_IE\_3:** „*Soluții Eficiente de Modelare și Proiectare a Coridoarelor Complexe HVAC/HVDC de Transport și Distribuție a Energiei Electrice*” (en: *Efficient Modelling and Design Techniques for Complex HVAC/HVDC Power Distribution Corridors*), **No. 1987/12.07.2017**, Internal Research, Development and Innovation Project 2017 Competition – Strategic research topics for young teams type 1.2, Technical University of Cluj-Napoca, **2017-2018**. (Buget: 20000 RON)

[A2] **Post-Doctoral Scholarship POSDRU/159/1.5/S/137516, PARTING** Research and Human Resources Grant, „*Ofertarea în Mediul Industrial a unor Soluții Moderne de Modelare, Predicție și Proiectare, cu Performanță Maximă, în Vederea Reducerii Impactului Curenților de Dispersie asupra Structurilor Metalice Supra și Subterane*” (en: *Offering to the Industrial Environment of Modern Modelling, Prediction and Design Solutions with Maximum Performance in the View of Impact Reduction of Eddy Currents on Above and Underground Metal Structures*), Technical University of Cluj-Napoca, **2014-2015**.

## B. Member in Research Grants won through National or International Competition

[B1] **Member** in „*SMEmpower Efficiency - A holistic framework for Empowering SME's capacity to increase their Energy Efficiency*”, project funded by the EU **HORIZON 2020** innovation programme under grant agreement **H2020-LC-SC3-EE-2018 No. 847132/2019**, Technical University of Cluj-Napoca team, **2019-2021**.

[B2] **Member** in „*Re-Cognition - Renewable Cogeneration and Storage Technologies Integration for energy Autonomous Buildings*”, project funded by the EU **HORIZON 2020** innovation programme under grant agreement **H2020-LC-SC3-2018-RESTwoStages No. 815301/2019**, Technical University of Cluj-Napoca team, **2019-2021**.

[B3] **Member** in „*DR-BOB – Demand Response in Block of Buildings*”, project funded by the EU **HORIZON 2020** innovation programme under grant agreement **H2020-EE-2015-2-RIA No. 696114/2016**, Technical University of Cluj-Napoca team, **2016-2019**.

[B4] Member in „*MEnS – Meeting of Energy Skills*”, project funded by the EU **HORIZON 2020** innovation programme under grant agreement **H2020-EE-2014-3-MU No. 649773/2014**, Technical University of Cluj-Napoca team, **2015-2017**.

[B5] Member in **CNCSIS PN-II-RU-TE-253/09.08.2010**: “*Soluții de modelare, predicție și proiectare, cu maxim de performanță, pentru reducerea impactului curenților de dispersie asupra conductelor metalice subterane de transport gaz*” (en: *Modelling, Prediction and Design Solutions, with maximum Effectiveness, for Reducing the Impact of Stray Currents on Underground Metallic Gas Pipelines*), National Research Grant, **2010-2012**.

[B6] Member in **CNCSIS PNCDI II 22122/2008**: „*CABDIAG: Sisteme de predicție și diagnoză inteligentă pentru creșterea siguranței în exploatare a rețelelor electrice de distribuție, prin prevenirea avariilor la cablurile de energie*” (en: *Intelligent Diagnosis and Prediction Systems to increase the Safe Operation of Power Distribution Networks, by Preventing Power Cable Damages*), National Research Grant, **2008-2010**.

[B7] Member in **CEEX, No. X2C37/2006**: „*ICEMECOS - Impactul câmpurilor electromagnetice de natură antropică asupra ecosistemelor*” (en: *The Impact of Anthropogenic Electromagnetic Fields on Ecosystems*), National Research Grant, **2006-2009**.

### **C. Member in Grants with Industry**

[C1] Member in **SDEE TN S.A.**, “*Studiu privind post-calculul consumului propriu tehnologic în rețelele de distribuție a operatorului de rețea concesionar SDEE Transilvania Nord S.A pentru anul 2018*” (en: *Study Regarding the Evaluation of the Technological Power Loess in the Distributions Networks of the SDEE Transilvania Nord S.A. network operator for year 2018*), obtained by the **Technical University of Cluj-Napoca** (internal no. 4740/01.03.2018), from **SDEE Transilvania Nord S.A.**, Romania, **2019**. (Buget: 59500 RON)

[C2] Member in **SDEE TN S.A. No. 4740/01.03.2018**, “*Studiu privind post-calculul consumului propriu tehnologic în rețelele de distribuție a operatorului de rețea concesionar SDEE Transilvania Nord S.A*” (en: *Study Regarding the Evaluation of the Technological Power Loess in the Distributions Networks of the SDEE Transilvania Nord S.A. network operator for year 2017*), obtained by the **Technical University of Cluj-Napoca** (internal no. 4740/01.03.2018), from **SDEE Transilvania Nord S.A.**, Romania, **2018**. (Buget: 133518 RON)

[C3] Member in **Servelect No. 33131/17.12.2018**, “*Studii privind Prognoza CPT în Rețelele de Distribuție a Energiei pentru anul 2018*” (en: *Studies regarding Power Distribution Network’s Internal Energy Losses Forecast for year 2018*), obtained by the **Technical University of Cluj-Napoca** (internal no. 33131/17.12.2018), from **S.C. Servelect S.R.L.**, Cluj-Napoca, Romania, **2017-2018**. (Buget: 14560 RON)

[C4] **Member in Cluj-Napoca Municipality No. 99457/09.03.2016**, “*Serviciu de Management Energetic la Nivelul Oraşului Cluj-Napoca*” (en: *Energy Management Service at the level of Cluj-Napoca City*), obtained by the **Technical University of Cluj-Napoca** (internal no. 99457/09.03.2016), from the **City Municipality of Cluj-Napoca**, Romania, **2016**. (Buget: 12501 RON)

[C5] **Member in Servelect No. 77/08.12.2016**, “*Studii privind Prognoza CPT în Reţelele de Distribuţie a Energiei pentru anul 2017*” (en: *Studies regarding Power Distribution Network’s Internal Energy Losses Forecast for year 2017*), obtained by the **Technical University of Cluj-Napoca** (internal no. 33047/08.12.2016), from **S.C. Servelect S.R.L.**, Cluj-Napoca, Romania, **2016-2017**. (Buget: 24000 RON)

[C6] **Member in Teloptica No. 76/09.12.2016**, “*Bilanţ Electroenergetic*” (en: *Power Balance Investigation*), obtained by the **Technical University of Cluj-Napoca** (internal no. 33048/08.12.2016), from **Teloptica S.R.L.**, Cluj-Napoca, Romania, **2016**. (Buget: 6765 RON)

[C7] **Member in UTI Grup No. 10/07.10.2016**, “*Raport de Audit Energetic - Evaluarea Eficienţei Energetice*” (en: *Energy Audit Report - Energy Efficiency Assessment*), obtained by the **Technical University of Cluj-Napoca** (internal no. 23927/07.10.2015), from **Cluj-Napoca International Airport**, Romania, **2016**. (Buget 46380 RON)

[C8] **Member in “Development of the Insulation Coordination and Grounding Analysis Technology for the Gas Insulated Substations”**, obtained by **University West of England**, Bristol, UK, from **Hyundai Heavy Industries Co., Ltd.**, Ulsan, South Korea, **2014-2015**.

[C9] **Member in ROMATSA No. 3423/17.12.2012::** “*Protecţia Echipamentelor de la obiectivele DSNA Cluj şi DR Bucureşti Secţia PNA/CNS Cluj la Supratensiuni şi Impulsuri Electromagnetice cauzate de Trăsnete în Liniile de Electroalimentare şi Circuitele Vocale şi de Date*” (en: *DSNA Cluj and DR Bucharest – PNA/CNS Cluj Section’s Equipment Protection from Overvoltage and Electromagnetic Impulses caused by Lightning Strikes to Power Lines and/or Telecommunication Circuits*), obtained by the **Technical University of Cluj-Napoca** from **Romatsa**, Romania, **2013-2014**.

[C10] **Member in ENERGOBIT No. 44/2012:** “*Interferenţe Electromagnetice Induse în Ecranele unor Linii Electrice în Cablu*” (en: *Induced Electromagnetic Interferences in Electrical Power Cables*), obtained by the **Technical University of Cluj-Napoca** from **Energobit**, Cluj-Napoca, Romania, **2012**.

[C11] **Member in TRANSGAZ No. 4/2011:** “*Studiul Coroziunii Conductelor de Transport Gaze Naturale, aflate sub Influenţa Liniilor Electrice Aeriene cu Tensiuni mai mari de 110 kV şi Metode de Reducere. Măsurători in Situ şi Validare Soft*” (en: *Natural Gas Transport Pipelines Corrosion Study due the Electromagnetic Interference Produced by over 110kV Overhead Power*

*Lines and Mitigation Solutions. On site measurements and Software Validation*) obtained by the **Technical University of Cluj-Napoca** from **Transgaz S.A.**, Mediaș, Romania, **2011-2012**.

[C12] **Member** in **TRANSGAZ No. 27/2010**: “*Studiul Coroziunii Conductelor de Transport Gaze Naturale, aflate sub Influența Liniilor Electrice Aeriene cu Tensiuni mai mari de 110 kV și Metode de Reducere. Studiu de caz.*” (en: *Natural Gas Transport Pipelines Corrosion Study due the Electromagnetic Interference Produced by over 110kV Overhead Power Lines and Mitigation Solutions. Case Studies*), obtained by the **Technical University of Cluj-Napoca** from **Transgaz S.A.**, Mediaș, Romania, **2010-2011**.

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Levente CZUMBIL