Detalierea articolelor publicate pentru îndeplinirea indicatorului **Publicații științifice rezultate din proiect (număr articole)**

Articolele publicate prezintă integral rezultatele obținute în cadrul proiectului.

Nr crt	Activitate	Articol	Revistă/conferință	Data apariție	Autori proiect	Alți autori
1	A1.1. Modelul conceptual	Study on Electricity markets in Romania	Database Systems Journal, Vol. VII, Issue 4/2016, ISSN 2069 – 3230	Martie 2017	Alexandra FLOREA, Anda BELCIU	-
2	A1.2. Propunerea arhitecturii prototipului	Conceptual design and architecture of an informatics solution for smart trading on wholesale energy market in Romania	Database Systems Journal, Vol. VII, Issue 4/2016, ISSN 2069 – 3230	Martie 2017	Adela BÂRA, Simona Vasilica OPREA, Iuliana ȘIMONCA (BOTHA), Osman Bülent TÖR	-
3	A2.1. Proiectarea modelului datelor	Data model for demand side management	Database Systems Journal, Vol. VIII, Issue 2/2017, ISSN 2069 – 3230	August 2017	Simona Vasilica OPREA, Osman Bülent TÖR	-
4	A2.2. Dezvoltarea modelului datelor	Regional Cooperation on the Energy Markets - a Study of Romania's Day-Ahead Market	Conferința Internațională „Global Economy Under Crisis" (GEUC) – ediția a VI-a, Constanța, 2017	14-15 decembrie 2017	Alexandra Maria Ioana CORBEA (FLOREA), Adela BÂRA, Adina UȚĂ	-
5	A2.2. Dezvoltarea modelului datelor	Integrating Big Data Technologies with the Data Warehouse Architecture in the Context of Smart Grid	The 17th International Conference on Informatics in Economy (IE 2018), Iasi, 2018	17 – 20 Mai 2018	Iuliana ȘIMONCA, Anda BELCIU, Ion LUNGU	-

6	A2.2. Dezvoltarea modelului datelor	Big Data Solution for Demand Response Management in Context of IoT Appliances	The 17th International Conference on Informatics in Economy (IE 2018), Iasi, 2018	17 – 20 Mai 2018	Adela BÂRA, Bogdan TUDORICĂ	Răzvan Marales - afiliere – ASE București
7	A2.2. Dezvoltarea modelului datelor	Data Model for Electricity Consumption Management	Database Systems Journal, Vol. IX/2018, ISSN 2069 – 3230	August 2018	Iuliana Șimonca (Botha), Simona Vasilica Oprea, Adina Uță, Ion Lungu, Osman Bulent Tor	-
8	A2.3. Proiectarea modelului de predicție	System Analysis of Romania's Intraday Energy Market	Journal of Information Systems & Operations Management, Vol 11, No.2, 2017, ISSN: 1843-4711	Decembrie 2017	Alexandra Maria Ioana CORBEA (FLOREA), Adina UȚĂ	-
9	A2.3. Proiectarea modelului de predicție	Analyses of wind and photovoltaic energy integration from the promoting scheme point of view: Study case of Romania doi:10.3390/en10122101	Energies 2017, 10, 2101; **ISI WOS (Q2)**	Decembrie 2017	Simona Vasilica OPREA, Adela BÂRA	-
10	A2.4. Proiectarea modelului de optimizare	Flattening the electricity consumption peak and reducing the electricity payment for residential consumers in the context of smart grid by means of shifting optimization algorithm	Computers & Industrial Engineering, Volume 122, Pages 125-139, Elsevier, ISSN: 0360-8352; https://doi.org/10.1016/j.cie.2018.05.053 **ISI WOS (Q1)**	Mai 2018	Simona Vasilica OPREA, Adela BARA	George Ifrim - afiliere Universitatea "Dunărea de Jos" Galați

11	A2.5. Dezvoltarea modelului de predicție	Decision Support System Design for Photovoltaic Systems Operation and Maintenance by using Big Data technologies	The International Conference "Present Issues Of Global Economy" - 15th Edition (PIGE 2018), Constanța, România	7-9 iunie 2018	Simona Vasilica OPREA, Adela BÂRA, Luminița ELEFTERESCU	-
12	A2.5. Dezvoltarea modelului de predicție	Decision Support System Design for Photovoltaic Systems Operation and Maintenance by using Big Data technologies	Revista "Ovidius" University Annals, Economic Sciences Series Volume XVIII, Issue 1 /2018, pag.104-110, ISSN: 2393-3127	august 2018	Simona Vasilica OPREA, Adela BÂRA, Luminița ELEFTERESCU	
13	A2.6. Dezvoltarea modelului de optimizare	Day-ahead electricity consumption optimization algorithms for smart homes	Computers&Industrial Engineering, Volume 135, September 2019, Pages 382-401, DOI: https://doi.org/10.1016/j.cie.2019.06.023 **ISI WOS (Q1)**	Iunie 2019	Simona Vasilica Oprea, Adela Bâra, George Adrian Ifrim	Lucian Coroian, Afiliere: University of Oradea, Romania
14	A2.7. Dezvoltarea modelului de analiză și tranzacționare	Sliding Time Window Electricity Consumption Optimization Algorithm in the Context of Big Data Processing	IEEE Access, Vol 7, 2019, Pag. 13050 – 13067, ISSN: 2169-3536, DOI: 10.1109/ACCESS.2019.2892902 **ISI WOS (Q1)**	decembrie 2018	S.V. Oprea, A. Bâra, V. Diaconița	-
15	A2.7. Dezvoltarea modelului de	Photovoltaic Power Plants (PV-PP) Reliability Indicators for Improving Operation and Maintenance Activities. A	IEEE Access, Vol 7, 2019,	Februarie 2019	S.V. Oprea, A. Bâra, D.	-

		analiză și tranzacționare	Case Study of PV-PP Agigea Located in Romania	Pag. 13050 – 13067, ISSN: 2169-3536, DOI: 10.1109/ACCESS.2019.2892902 **ISI WOS (Q1)**		Preoțescu, L. Eleftterescu	
16	A2.7. Dezvoltarea modelului de analiză și tranzacționare		Energy consumption real time monitoring in internet of things context	The 18th International Conference on Informatics in Economy (IE 2019), București, România, 30.05.2019	Mai 2019	Osman Bülent TÖR	Răzvan Marales, Afiliere: Academia de Studii Economice din București
17	A2.7. Dezvoltarea modelului de analiză și tranzacționare		Monitoring and Controlling Electricity Consumption Application for Smart Buildings	Database Systems Journal, vol. X/2019, http://www.dbjournal.ro/archive/30/30_2.pdf	August 2019	Simona-Vasilica OPREA	Maria Irène CĂLINOIU Afiliere: Academia de Studii Economice din București
18	A3.1. Implementarea prototipului		Monitoring photovoltaic systems leveraging big data infrastructure	The 18th International Conference on Informatics in Economy (IE 2019), București, România, 30.05.2019	Mai 2019	Ștefan PREDA, Adela BÂRA	

19	A3.1. Implementarea prototipului	Big Data integration of smart grid consumption data	The 18th International Conference on Informatics in Economy (IE 2019), București, România, 30.05.2019	Mai 2019	Vlad DIACONIȚA Iuliana ȘIMONCA (BOTHA)	Alexandra CORBEA (FLOREA), Afiliere: Academia de Studii Economice din București
20	A3.1. Implementarea prototipului	Demand Side Managment Electric Energy Consumption Data Processing Architectures Within Internet Of Things Context	IEEE Joint 19th International Symposium on Computational Intelligence and Informatics and 7th International Conference on Recent Achievements in Mechatronics, Automation, Computer Sciences and Robotics, (CINTI 2019), November 14-16, 2019 in Szeged, Hungary .	Noiembrie 2019	Ștefan PREDA	Răzvan Marales - afiliere – ASE București
21	A3.1. Implementarea prototipului	Consumption Optimization Aspects in Renewal Energy Systems Using Artificial Neural Network	IEEE The 6th INTERNATIONAL SYMPOSIUM ON ELECTRICAL AND ELECTRONICS ENGINEERING, (ISEE 2019) 18-20 October 2019, "Dunarea de Jos" University of Galati, Romania.	Octombrie 2019	Ștefan PREDA	Răzvan Marales - afiliere – ASE București
22	A3.1. Implementarea prototipului	Shifting Optimization Algorithm for Flattening the Electricity Consumption Peak of Residential Communities	The 23rd International Conference on System Theory, Control and Computing (ICSTCC 2019),	Octombrie 2019	George Ifrim, Simona Vasilica	-

			Octombrie 9-11, 2019, Sinaia, Romania		Oprea, Adela Bâra	
23	A3.1. Implementarea prototipului	Ultra-Short-Term Forecasting for Photovoltaic Power Plants and Real-Time Key Performance Indicators Analysis with Big Data Solutions. Two case studies - PV Agigea and PV Giurgiu Located in Romania	Computers in Industry, Elsevier, ISSN: 0166-3615 **ISI WOS (Q1)**	Septembrie 2020	Simona-Vasilica OPREA, Adela BÂRA	-
24	A3.1. Implementarea prototipului	Sustainable Development with Smart Meter Data Analytics Using NoSQL and Self-Organizing Map	Sustainability, ISSN 2071-1050 **ISI WOS (Q2)**	Aprilie 2020	Simona-Vasilica OPREA, Adela BÂRA, Bogdan TUDORICĂ	Gabriela DOBRIȚA (ENE) – ASE Bucuresti
25	A3.2. Testarea și validarea modulelor prototipului	Peak Shaving Algorithms for residential consumers. A comparative study.	The 24th International Conference on System Theory, Control and Computing (ICSTCC 2020), Octombrie 2020	Acceptat spre publicare	Ifrim George, Simona-Vasilica OPREA, Adela BÂRA	
26	A3.2. Testarea și validarea modulelor prototipului	Testing Approaches for an Electricity Market Simulator	Database Systems Journal, vol. XI/2020	Mai 2020	Anca Ioana ANDREESCU, Ana Ramona BOLOGA	-
27	A3.2. Testarea și validarea modulelor prototipului	A Model for a Trading Simulator on the Electricity Markets	IEEE Access, DOI: 10.1109/ACCESS.2020.3029291 **ISI WOS (Q1)**	Octombrie 2020	Simona-Vasilica Oprea, Adela Bâra, Dan Preoțescu, Ramona Ana Bologa, Lucian Coroianu	

28	A3.2. Testarea și validarea modulelor prototipului	An intra-residential smart metering system – design and implementation	The 3rd International Conference on Economics and Social Sciences, Innovative business models to restart the global economy, October 15-16, 2020, Bucharest University of Economic Studies, Romania	Octombrie 2020	Simona OPREA, Bogdan TUDORICA, Adela BARA, Osman Bulent TOR	
29	A5.1. Sesiuni de informare	Advanced data analysis of smart grid consumption data	The IE 2020 International Conference, 21-24.05.2020, Timisoara, Romania	Mai 2020	Iuliana ȘIMONCA (BOTHA), Alexandra CORBEA (FLOREA)	
30	A5.1. Sesiuni de informare	Practical approach for energy market trading simulator	The IE 2020 International Conference, 21-24.05.2020, Timisoara, Romania	Mai 2020	Anda BELCIU (VELICANU)	
31	A5.1. Sesiuni de informare	Performance indicators for analysis of the activity on the wholesale electricity market	The IE 2020 International Conference, 21-24.05.2020, Timisoara, Romania	Mai 2020	Ana Ramona BOLOGA, Anca Ioana ANDREESCU, Dan PREOȚESCU	
32	A5.1. Sesiuni de informare	Main risks and mitigation measures on the current structure of electricity market	International Conference Risk in Contemporary Economy (RCE 2020), UGAL, Galați, România	Octombrie 2020	Dan Preoțescu, Simona-Vasilica Oprea, Adela Bâra, Ana Ramona Bologa, Ștefan PREDA, Osman Bulent TOR	

| 33 | A5.1. Sesiuni de informare | Software platform for an electricity market trading simulator | International Conference Risk in Contemporary Economy (RCE 2020), UGAL, Galați, România | Octombrie 2020 | Simona-Vasilica Oprea, Dan Preoțescu, Adela Bâra, Ștefan PREDA, Osman Bulent TOR | |

Detalierea articolelor publicate pentru îndeplinirea indicatorului **Co-publicații științifice public-private (număr articole)**

Articolele publicate prezintă integral rezultatele obținute în cadrul proiectului.

Nr crt	Activitate	Articol	Revistă/conferință	Data apariție	Autori proiect	Alți autori
1	A2.2. Dezvoltarea modelului datelor	Solutions for Big Data Processing and Analytics in Context of Smart Homes	Database Systems Journal, Vol. IX/2018, ISSN 2069 – 3230, 2018	August 2018	Adela BÂRA, Bogdan TUDORICĂ	Răzvan Marales - afiliere SC Metro Systems Romania
2	A2.3. Proiectarea modelului de predicție	Price Based Unit Commitment For Bidding Strategies In Turkish Market Under Unit And System Constraints	IEEE 8th International Conference on Energy and Environment, CIEM 2017, Univ.Politehnica Bucharest	19-20 Octombrie 2017	O.B.TÖR, A.BARA, S.V.OPREA	A.Okuslug A.N.Guven - afiliere Electrical and Electronics Engineering Department, Middle East Technical University, Ankara, Turkey
3	A2.4. Proiectarea modelului de optimizare	Protection relay settings management at Akdeniz DISCO through DIgSILENT StationWare	The Sixth International Istanbul Smart Grids and Cities Congress and Fair (ICSG 2018), Istanbul, Turcia,	25-26 aprilie 2018	Osman Bülent TÖR, Adela BÂRA, Simona OPREA	Hüseyin OĞUZ[1], Mahmut Erkut Cebeci[1], Osman Aksu[2], Mehmet Gümüş [2]

						1 - afiliere EPRA Eng. Procur. Res. Analysis Ankara, Turkey, 2 - afiliere SCADA and Load Dispatch Department of Akdeniz DISCO, Antalya, Turkey
4	A2.4. Proiectarea modelului de optimizare	Analytical Tools Required in PX-Markets for Optimizing Short-Term Re-Dispatch Orders and Long - Term Grid Investments	The 17th International Conference on Informatics in Economy (IE 2018), Iași, România	17 – 20 Mai 2018	Osman Bülent TÖR	Mahmut Erkut Cebeci - afiliere EPRA Eng. Procur. Res. Analysis Ankara, Turkey
5	A2.4. Proiectarea modelului de optimizare	Arc-flash risk level calculations based on computer simulations and measures to avoid hazards	XXth International Symposium on Electrical Apparatus and Technologies (Siela 2018), Bourgas, Bulgaria	3-6 iunie 2018	Osman Bulent TOR Adela BÂRA, Simona OPREA	Kadir OZEN[1] Mahmut Erkut CEBECI [1] Muslum CETINTAS[2], Atakan AKGUN[2] 1 - afiliere EPRA Eng. Procur. Res. Analysis Ankara, Turkey, 2 - afiliere Başkent DISCO, Ankara, Turkey

6	A2.4. Proiectarea modelului de optimizare	Implementation of sweep frequency response analysis (SFRA) for condition assessment of power and distribution transformers	Second SEERC conference (SEERC 2018) Kiev, Ucraina	12 – 13 iunie 2018	Osman Bülent TÖR Adela BÂRA, Simona OPREA	Burak Özçelik[1] Mahmut Erkut Cebeci[1], Kürşat Tanrıöven [2] 1 - afiliere EPRA Eng. Procur. Res. Analysis Ankara, Turkey 2 - afiliere Kayseri and its Vicinity Electricity Distribution Co. (KCETAS), Kayseri, Turkey
7	A2.6. Dezvoltarea modelului de optimizare	CVar-Based Stochastic Wind-Thermal Generation Coordination for Turkish Electricity Market	Journal of Modern Power Systems and Clean Energy **ISI WOS (Q2)**	octombrie 2018	Osman Bülent TÖR	Aycan Aydoğdu[1] Ali Nezih Güven[1] 1 - afiliere Electrical and Electronics Engineering Department, Middle East Technical University, Ankara, Turkey

8	A2.6. Dezvoltarea modelului de optimizare	Consecutive market and network simulations to investigate grid investment and re-dispatch requirements under various RES scenarios	IEEE Transactions on Sustainable Energy, 2018, DOI: 10.1109/TSTE.2018.2881036 **ISI WOS (Q1)**	Noiembrie 2018	Osman Bülent TÖR Adela BÂRA, Simona OPREA	Mahmut Erkut Cebeci[1] 1 - afiliere EPRA Eng. Procur. Res. Analysis Ankara, Turkey
9	A2.6. Dezvoltarea modelului de optimizare	A three-stage approach for resilience-constrained scheduling of networked microgrids	Journal of Modern Power Systems and Clean Energy, 2019, DOI: 10.1007/s40565-019-0555-0 **ISI WOS (Q2)**	Iunie 2019	Osman Bulent Tor, Mahmut Erkut Cebeci, Adela Bara, Simona Vasilica Oprea	Saeed Teimourzadeh[1] 1 - afiliere EPRA Eng. Procur. Res. Analysis Ankara, Turkey
10	A2.7. Dezvoltarea modelului de analiză și tranzacționare	PV Forecasting Using Support Vector Machine Learning in a Big Data Analytics Context	Symmetry. 2018;10(12):748 DOI 10.3390/sym10120748 **ISI WOS (Q2)**	Decembrie 2018	Adela BÂRA, Simona OPREA, Anda BELCIU (VELICANU)	Ștefan Preda[1] 1 - afiliere Oracle Romania
11	A2.7. Dezvoltarea modelului de analiză și tranzacționare	Cost and benefits of flexibility measures for integrating 60 GW wind and solar capacity in Turkey by 2026	IEEE, Seventh International Istanbul Smart Grids and Cities Congress (ICSG), 25-26 April 2019	Aprilie 2019	Mahmut Erkut Cebeci, Osman Bülent Tör	Deger Saygın[1], Saeed Teimourzadeh[2], Philipp Godron[3] Afiliere: 1 - SHURA Enerji Dönüşümü Merkezi, Turkey; 2 - EPRA Eng. Procur. Res. Analysis

						Ankara, Turkey; 3 - Agora Energiewende, Turkey
12	A2.7. Dezvoltarea modelului de analiză și tranzacționare	Peak shaving and technical loss minimization in distribution grids: a time-of-use-based pricing approach for distribution service tariffs	Turkish Journal of Electrical Engineering & Computer Sciences **ISI WOS (Q3)**	Martie 2020	Osman Bülent Tör, Mahmut Erkut Cebeci Simona OPREA Adela BÂRA	Mehmet KOÇ[1], Saeed Teimourzadeh[1], Deren ATLI[2] 1 - EPRA Eng. Procur. Res. Analysis Ankara, Turkey; 2 - Başkent Elektrik Dağıtım A.Ş., Ankara, Turkey
13	A3.2. Testarea și validarea modulelor prototipului	A Price-Elastic Approach for Optimal Scheduling of Small-Scale Storage Devices in Smart Houses with Short-term and Long-term Constraints	Journal of Modern Power and Clean Energy **ISI WOS (Q2)**	August 2020 (accepta t)	Osman Bülent Tör, Mahmut Erkut Cebeci	K. Tanrıöven, F. Daldaban, S. Teimourzadeh 1 - EPRA Eng. Procur. Res. Analysis Ankara, Turkey
14	A3.3 Realizarea documentației tehnice a prototipului	Consumption Management Software for Electricity Suppliers	Database Systems Journal, vol. XI/2020	Septem brie 2020	Ana-Ramona BOLOGA, Simona-Vasilica OPREA, Adela BÂRA, Osman Bülent TÖR	Florin-Constantin CIOBANU, CEZ România
15	A3.3 Realizarea documentației tehnice a prototipului	Electricity Consumption Management Software Tool for Consumers - MY SMART HOME	Database Systems Journal, vol. XI/2020	Septem brie 2020	Anca Andreescu, Adela BÂRA, Simona-Vasilica OPREA, George Adrian IFRIM, Osman Bülent TÖR	Andrei BUCUR, Smarte Tech Energy Concept SRL

16	A3.3 Realizarea documentației tehnice a prototipului	Data Analytics for the Transmission System Operators	Database Systems Journal, vol. XI/2020	Octombrie 2020	Dan PREOȚESCU, Simona-Vasilica OPREA, Adela BÂRA, Osman Bülent TÖR	Niculae OPREA, Transelectrica S.A.
17	A3.3 Realizarea documentației tehnice a prototipului	Dashboard for analysis of electricity imbalances at the Balancing Responsible Parties level	Database Systems Journal, vol. XI/2020	Octombrie 2020	Simona-Vasilica OPREA, Adela BÂRA, Osman Bülent TÖR, Ștefan Preda	Ciprian Georgian Dragomir, CEZ Romania