

AC-link based new microgrid system for research of local power flow management

Märss, Maido; Annuk, Andres; Allik, Alo; Uiga, Jaanus Agronomy research 2014 / p. 553-562

https://agronomy.emu.ee/vol122/2014_2_26_b5.pdf [Journal metrics at Scopus](#) [Article at Scopus](#)

Adoption of renewable energy and innovation process in Mecklenburg-Vorpommern (Germany), Estonia, Latvia

Kukrus, Ants; Lumiste, Rünno European integration and Baltic Sea region studies : university-business partnership through the Triple Helix Approach ; Vol. II 2012 / p. 213-224 : ill

Advanced nanomaterials and their applications in renewable energy, Jingbo Louise Liu and Sajid Bashir : [book review]

Rauwel, Protima MRS bulletin 2016 / p. 494 <https://doi.org/10.1557/mrs.2016.127>

Advanced nanomaterials and their applications in renewable energy, Jingbo Louise Liu and Sajid Bashir : Elsevier 2015, 436 pages, print and e-book \$144.50, ISBN 9780128015285 : [book review]

Rauwel, Protima MRS bulletin 2016 / p. 494 <https://doi.org/10.1557/mrs.2016.127>

Aggregated demand-side energy flexibility : a comprehensive review on characterization, forecasting and market prospects

Plaum, Freddy; Ahmadihangar, Roya; Rosin, Argo; Kilter, Jako Energy reports 2022 / p. 9344-9362

<https://doi.org/10.1016/j.egy.2022.07.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aggregator coordinated transactive energy trading for microgrids

Crasta, Cletus J. 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 105-106 : ill https://www.ester.ee/record=b5504019*est

AI applications for power quality issues in distribution systems : A systematic review

Nabian Dehaghani, Mitra; Korōtko, Tarmo; Rosin, Argo IEEE Access 2025 / p. 18346-18365 2025

<https://doi.org/10.1109/ACCESS.2025.3533702>

Air-core coupled inductor based modular solid-state circuit breaker with reduced components for DC buildings

Pogulaguntla, Aditya; Dsa, Daniel; Yagna, Griddalur Venkata; Banavath, Satish Naik; Carvalho da Silva, Edivan Laercio; Chub, Andrii; Vinnikov, Dmitri IEEE journal of emerging and selected topics in power electronics 2024 / 12 p

<https://doi.org/10.1109/JESTPE.2024.3485735>

Alar Konist: kas põlevkivienergeetikal on tulevikku?

Konist, Alar err.ee 2023 [Alar Konist: kas põlevkivienergeetikal on tulevikku?](#)

Algatus „Taastuenergia ajab juhtme kokku?“ toob selgust taastuenergia teemadesse

rohe.geenius.ee 2023 [Algatus „Taastuenergia ajab juhtme kokku?“ toob selgust taastuenergia teemadesse](#)

Alternatiivenergeetika väljavaated : [kokkuvõtteid R.Vilu, M.Koeli, Ü.Kase, V.Varese, ... jt. konverentsiettekannetest]

Annuk, Andres; Vilu, Raivo; Koel, Mihkel; Kask, Ülo; Vares, Villu Maamajandus 2002 / 12, lk. 16-17

https://artiklid.elnet.ee/record=b1038666*est

Alternatiivenergeetiline Eesti on võimalik : [küsimustele vastab Raivo Vilu]

Vilu, Raivo; Ader, Kristel Roheline Värav : [Maalehe lisa] 2001 / 22. nov., lk. 5 : fot

Alternatiivenergiat otsimas : [TTÜ Säästva Arengu Klubi ekskursioonist]

Tali, Andra Studioosus 2003 / Jaan., lk. 12 : fot

Alternatiivsetest võimalustest Eesti energeetikas

Tiigimägi, Eeli; Vares, Villu Eesti energeetika minevik ja tulevik : konverentsi ettekanded 13.-14. november 1990 1990 / lk. 77-81

https://www.ester.ee/record=b1209176*est

Ammonia production as alternative energy for the Baltic Sea Region

Prause, Gunnar Klaus; Olaniyi, Eunice Omolola; Gerstlberger, Wolfgang Dieter Energies 2023 / art. 1831

<https://doi.org/10.3390/en16041831> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An analysis of hybrid renewable energy system using HOMER Pro: a case study in Sungai Tiang Camp, Perak

Fadzli, Nur Farzana Athirah Mohd; Azmi, Azlin Mohd; Dahlan, Nofri Yenita; Ismail, Zubir Ahmad Mohd; Sukumaran, Sreenath Journal of advanced research in applied sciences and engineering technology 2023 / p. 79-92 : ill <https://doi.org/10.37934/araset.31.3.7992>

[Journal metrics at Scopus](#) [Article at Scopus](#)

Andrii Chub: teadustöö on põnevam kui töö ettevõttes

Chub, Andrii Mente et Manu 2022 / lk. 12-17 : fot https://www.ester.ee/record=b1242496*est

Anname süsinikufondi raha idudele

Simson, Taavi Äripäev 2020 / Lk. 12 : portr https://www.ester.ee/record=b2122331*est

ANN-LSTM based tool for photovoltaic power forecasting

Zahraoui, Younes; Korõtko, Tarmo; Mekhilef, Saad; **Rosin, Argo** 2024 4th International Conference on Smart Grid and Renewable Energy (SGRE) : proceedings 2024 / 6 p. : ill <https://doi.org/10.1109/SGRE59715.2024.10428969>

Applications of game theory to design and operation of modern power systems: a comprehensive review

Navon, Aviad; Yosef, Gefen Ben; Machlev, Ram; Shapira, Shmuel; Chowdhury, Nilanjan Roy; **Belikov, Juri;** Orda, Ariel; Levron, Yoash Energies 2020 / art. 3982, 34 p <https://doi.org/10.3390/en13153982> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Arenguseire energiakonverents: kuidas muutub tarbijate roll elektrisüsteemis

postimees.ee 2024 [Arenguseire energiakonverents: kuidas muutub tarbijate roll elektrisüsteemis](#)

Argo Rosin : energeetika vajab operatiivset ja arukat tegutsemist

Rosin, Argo err.ee 2022 [Argo Rosin: energeetika vajab operatiivset ja arukat tegutsemist](#)

Argo Rosin: rohepööre, ülikool ja mängurlus [Võrguväljaanne]

Rosin, Argo err.ee 2021 ["Argo Rosin: rohepööre, ülikool ja mängurlus"](#)

Arvi Hamburg : usk praeguse elektrituru võimsusesse on naiivne

Oidermaa, Jaan-Juhan novaator.err.ee 2022 [Arvi Hamburg : usk praeguse elektrituru võimsusesse on naiivne](#)

Assessment of power system asset dispatch under different local energy community business models

Korõtko, Tarmo; Plaum, Freddy; Häring, Tobias; Mutule, Anna; Lazdins, Roberts; Boršcevs, Olegs; **Rosin, Argo;** Carroll, Paula Energies 2023 / art. 3476 <https://doi.org/10.3390/en16083476> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Balti LFC ploki vajalike sageduse hoidmise ja taastamise reservide dimensioneerimine suurenenud taastuenergiaallikate lisandumise korral

Leinakse, Madis; Kilter, Jako 2023

Blockchain for EU electricity market

Crasta, Cletus J.; Agabus, Hannes; Palu, Ivo 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 9-12 June 2020 : proceedings 2020 / 6 p <https://doi.org/10.1109/EEEIC/ICPSEurope49358.2020.9160575>

Buck-boost resonant Z-source parital power converter

Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri 3rd International Conference on Smart Grid and Renewable Energy (SGRE) 2022 / p. 1-6 <https://doi.org/10.1109/SGRE53517.2022.9774095>

Cascaded quasi-Z-source inverters for renewable energy generation systems

Adamowicz, Marek; Strzelecki, Ryszard; **Vinnikov, Dmitri** Proceedings of 5th International Conference and Exhibition on Ecological Vehicles and Renewable Energies : March 25-28, 2010, Grimaldi Forum, Monaco 2010 / [8] p

A case study of optimising energy storage dispatch : convex optimisation approach with degradation considerations

Vaicys, Jonas; Gudžius, Saulius; Jonaitis, Audrius; Rackiene, Roma; **Blinov, Andrei;** Peftitsis, Dimosthenis Journal of energy storage 2024 / art. 112941 <https://doi.org/10.1016/j.est.2024.112941>

CCM and DCM analysis of Quasi-Z-Source derived push-pull DC/DC converter

Chub, Andrii; Husev, Oleksandr; Blinov, Andrei; Vinnikov, Dmitri Journal of microelectronics, electronic components and materials 2014 / p. 224-234 : ill [http://www.midem-drustvo.si/Journal%20papers/MIDEM_44\(2014\)3p224.pdf](http://www.midem-drustvo.si/Journal%20papers/MIDEM_44(2014)3p224.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterization of the applied materials for floating offshore wind turbine members: A review on the current state

Wijaya, Muhammad Rizky Arga; Adiputra, Ristiyanto; Aditya Rio, Prabowo; **Putranto, Teguh;** Smaradhana, Dharu Feby Procedia Structural Integrity, vol 37 2023 / p. 41-49 : ill <https://doi.org/10.1016/j.prostr.2023.07.108> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Climate and carbon neutrality in a consumptionist world

Soesoo, Alvar Геология, геоэкология, эволюционная география 2020 / с. 196-200 <https://elibrary.ru/item.asp?id=44623618&pff=1>

Climate-neutral Provision of Peak Heat Loads

Moser, Simon; **Volkova, Anna** Euroheat and Power (English Edition) 2024 / p. 23-26 <https://prod.euroheat.org/dhc/knowledge->

Community battery sizing for distribution level RES hosting capacity improvement

Peterson, Kristjan; Shabbir, Noman; Astapov, Victor; Kütt, Lauri; Kamran, Daniel 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p
<https://doi.org/10.1109/RTUCON62997.2024.10830871>

Comparative evaluation of isolated dc-dc converters for low power applications

Azizi, Mohammadreza; Husev, Oleksandr; Vinnikov, Dmitri; Veligorskyi, Oleksandr 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 7-12
<https://doi.org/10.1109/PEMC51159.2022.9962944>

Comparison of grid-connected flyback-based microinverter with primary and secondary side decoupling approach

Afshari, Hossein; Husev, Oleksandr; Vinnikov, Dmitri; Matiushkin, Oleksandr; Vosoughi Kurdkandi, Naser 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / p. 1-6 <https://doi.org/10.1109/RTUCON56726.2022.9978855>

Comparison of performance of phase-shift and asymmetrical pulse width modulation techniques for the novel galvanically isolated buck-boost dc-dc converter for photovoltaic applications

Vinnikov, Dmitri; Chub, Andrii; Kosenko, Roman; Zakis, Janis; Liivik, Elizaveta IEEE journal of emerging and selected topics in power electronics 2017 / p. 624-637 : ill <https://doi.org/10.1109/JESTPE.2016.2631628> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

A competitive framework for the participation of multi-microgrids in the community energy trading market: A case study

Zahraoui, Younes; Korötko, Tarmo; Rosin, Argo; Zidane, Tekai Eddine Khalil; Agabus, Hannes; Mekhilef, Saad IEEE Access 2024 / p. 68232-68248 <https://doi.org/10.1109/ACCESS.2024.3399168>

Comprehensive comparison of grid-connected flyback-based microinverter with primary and secondary side decoupling approach

Afshari, Hossein; Husev, Oleksandr; Matiushkin, Oleksandr; Pourjafar, Saeed; Kurdkandi, Naser Vosoughi; Vinnikov, Dmitri IEEE transactions on industry applications 2024 / p. 9080-9089 <https://doi.org/10.1109/TIA.2024.3452069>

Congestion control strategies for increased renewable penetration of photovoltaic in LV distribution networks

Shabbir, Noman; Kütt, Lauri; Astapov, Victor; Husev, Oleksandr; Ahmadiyahangar, Roya; Wen, Fushuan; Kull, Karl Energy reports 2022 / p. 217-223 <https://doi.org/10.1016/j.egyr.2022.10.184> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Controller design for interleaved bidirectional dc-dc converter with coupled inductors

Tytelmaier, Kostiantyn; Husev, Oleksandr; Veligorskyi, Oleksandr; Khomenko, Maksym; Khomenko, Oleh 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 570-573 : ill <https://doi.org/10.1109/UKRCON.2017.8100306>

Coordinated optimization of parameters of PSS and UPFC-PODCs to improve small-signal stability of a power system with renewable energy generation

He, Ping; Shen, Runjie; Wen, Fushuan; Pan, Qi Journal of energy engineering 2021 / p. 04020089-1-04020089-11 : ill
[https://doi.org/10.1061/\(ASCE\)EY.1943-7897.0000737](https://doi.org/10.1061/(ASCE)EY.1943-7897.0000737) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Correction to: Decision support tools for wind and solar farm site selection in Isfahan Province, Iran (Clean Technologies and Environmental Policy, (2021), 23, 4, (1179-1195), 10.1007/s10098-020-01978-w)

Barzehkar, Mojtaba; Parnell, Kevin Ellis; Mobarghaee Dinan, Naghme; Brodie, Graham Clean technologies and environmental policy 2021 / p. 1197-1198 <https://doi.org/10.1007/s10098-020-02007-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost-benefit analysis of nZEB energy efficiency strategies with on-site photovoltaic generation

Pikas, Ergo; Kurnitski, Jarek; Thalfeldt, Martin; Koskela, Lauri Energy 2017 / p. 291-301 : ill
<https://doi.org/10.1016/j.energy.2017.03.158> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost-competitive and self-supporting geothermal energy, CO₂-EOR and CO₂ storage concept : case study of the E6 structure in the Baltic Sea

Šogenov, Kazbulat; Šogenova, Alla 14th Greenhouse Gas Control Technologies Conference Melbourne 21-26 October 2018 (GHGT-14) 2019 / 8 p. : ill https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3366151

The cost-competitiveness of concentrated solar power with thermal energy storage in power systems with high solar penetration levels

Miron, Dror; Navon, Aviad; Levron, Yoash; Belikov, Juri; Rotschild, Carmel Journal of Energy Storage 2023 / art. 108464
<https://doi.org/10.1016/j.est.2023.108464> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cyber-physical microgrids : toward flexible energy districts

Rosin, Argo; Ahmadihangar, Roya; Martins, Joao; Sahoo, Subham; Blaabjerg, Frede Cyber Security for Microgrids 2022 / p. 161-178 : ill https://doi.org/10.1049/PBPO196E_ch8

Damping characteristics of interconnected power systems with wind-photovoltaic-thermal-bundled power transmitted by AC/DC systems

He, Ping; Li, Zhao; Zheng, Mingming; **Wen, Fushuan;** Ji, Yugi; Wu, Xinxin Journal of energy engineering 2021 / p. 04021029-1-04021029-10 : ill [https://doi.org/10.1061/\(ASCE\)EY.1943-7897.0000765](https://doi.org/10.1061/(ASCE)EY.1943-7897.0000765) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Danish, Estonian and Finnish NZEB requirements comparison with European Commission recommendations for office buildings in Nordic and Oceanic climates

Simson, Raimo; Arumägi, Endrik; Thomsen, Kirsten Englund; Wittchen, Kim Bjarne; **Kurnitski, Jarek** E3S Web Conferences : The 16th ROOMVENT Conference (ROOMVENT 2022) 2022 / art. 01017 <https://doi.org/10.1051/e3sconf/202235601017> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Day-ahead economical planning of multi-vector energy district considering demand response program

Ghasemi-Marzbali, Ali; Shafiei, Mohammad; **Ahmadihangar, Roya** Applied energy 2023 / art. 120351 <https://doi.org/10.1016/j.apenergy.2022.120351> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Day-ahead scheduling of electric vehicles and electrical storage systems in smart homes using a novel decision vector and AHP method

Alilou, Masoud; Gharehpetian, Gevork B.; **Ahmadihangar, Roya; Rosin, Argo;** Anvari-Moghaddam, Amjad Sustainability (Switzerland) 2022 / Art. 11773 <https://doi.org/10.3390/su141811773> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dead-beat-based model predictive current control for the dual-purpose dc-dc/ac PWM modular power converter

Roncero-Clemente, Carlos; Escalona, Javier-Gutierrez; Pires, V. Fernao; **Matiushkin, Oleksandr;** Milanese-Montero, Maria Isabel; Romero-Cadaval, Enrique 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604328>

Decarbonisation of fossil-fuel CHP based district heating system = Fossiilkütustel põhineva CHP kaugküttesüsteemi dekarboniseerimine

Rušeljuk, Pavel 2023 <https://doi.org/10.23658/taltech.62/2023> <https://digikogu.taltech.ee/et/Item/84455e85-92bf-4aba-8623-86c0904a8747> https://www.ester.ee/record=b5640849*est

Decarbonisation options of district heating peak loads

Volkova, Anna; Moser, Simon; Jauschnik, Gabriela; **Hlebnikov, Aleksandr; Ali, Hesham Abed Al-Same Jamil;** Cecchin, Chiara 10th International Conference on Smart Energy Systems : Book of Abstracts 2024 / p. 203-204 <https://vbn.aau.dk/da/publications/book-of-abstracts-10th-international-conference-on-smart-energy-s-2>

A decentralized distribution market mechanism considering renewable generation units with zero marginal costs

Yang, Jiajia; Dong, Zhao Yang; **Wen, Fushuan;** Chen, Guo; Qiao, Yichen IEEE Transactions on Smart Grid 2020 / p. 1724 - 1736 <https://doi.org/10.1109/TSG.2019.2942616> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Decision support tools for wind and solar farm site selection in Isfahan Province, Iran

Barzehkar, Mojtaba; Parnell, Kevin Ellis; Mobarghaee Dinan, Naghmeh; Brodie, Graham Clean technologies and environmental policy 2021 / p. 1179–1195 <https://doi.org/10.1007/s10098-020-01978-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Demand response in the German district heating system

Ju, Yuchen; Lindholm, Joakim; Verbeck, Moritz; **Jokisalo, Juha; Kosonen, Risto;** Janßenc, Philipp; Li, Yantong; Schafers, Hans; Nord, Natasa The 8th Conference of the Sustainable Solutions for Energy and Environment EENVIRO 2022 16/10/2022 - 21/10/2022 Bucharest, Romania 2023 / art. 012016 <https://doi.org/10.1088/1755-1315/1185/1/012016> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Demand-side Flexibility in Smart Grid

Ahmadihangar, Roya; Rosin, Argo; Palu, Ivo; Azizi, Aydin 2020 <https://doi.org/10.1007/978-981-15-4627-3>

Demonstration of mitigation measures and clarification of unclear grid code requirements : Deliverable D1.6 [Online resource]

Rüberg, S.; Sewdien, V.; Rueda Torres, J. L.; **Kilter, Jako** 2019 [Deliverable D1.6](#)

Design of multiphase single-switch impedance-source converters

Chub, Andrii; Vinnikov, Dmitri; Liivik, Liisa; Jalakas, Tanel; Blinov, Andrei IECON 2018 - 44th Annual Conference of the IEEE

Determination methods for controller parameters of back-to-back converters in electric power grids

Beg, Nauman; **Rahmoun, Ahmad; Armstorfer, Andreas; Rosin, Argo; Biechl, Helmuth** PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 157-164 : ill <https://doi.org/10.1109/PQ.2016.7724106>

Determining the optimal directions of investment in regional renewable energy development

Sotnyk, Iryna; Kurbatova, Tetiana; Romaniuk, Yaroslavna; Prokopenko, Olha; Gonchar, Viktoriya; **Prause, Gunnar Klaus**; Sapiński, Aleksander Energies 2022 / art. 3646 <https://doi.org/10.3390/en15103646> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of autonomous food dehydration system based on building integrated photovoltaic thermal technology

Yakobiuk, Dmytro; Jagomägi, Andri; Yakobiuk, Iryna Journal of Renewable and Sustainable Energy 2018 / art. 021002 <https://doi.org/10.1063/1.5000230> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of realtime co-simulation platform harnessing consumer energy flexibility through an aggregator to provide grid support

Shabbir, Noman; Ahamadihangar, R; Rosin, Argo; Kilter, Jako; Martins, Joao IEEE Transactions on Consumer Electronics 2024 <https://doi.org/10.1109/TCE.2024.3470241>

Digital-physical convergence of wave energy conversion [Online resource]

Vidjajev, Nikon; Alari, Victor; Terentjev, Jan Book of Abstracts of the General Assembly 2020 (online event) of the WECANet COST Action CA17105 : A pan-European Network for Marine Renewable Energy with a Focus on Wave Energy 2020 / p. 43 "[Digital-physical convergence of wave energy conversion](#)"

Dilemma in Estonian renewable energy policy : do state subsidies meet public preferences?

Ehrlich, Üllas; Roodi, Margot International journal of energy 2013 / p. 59-65

Distributed price-based power management for multibuses DC nanogrids EEMS

Carvalho da Silva, Edivan Laercio; Bellinaso, Lucas V.; Cardoso, Rafael; Michels, Leandro IEEE journal of emerging and selected topics in power electronics 2022 / p. 5509-5521 <https://doi.org/10.1109/JESTPE.2022.3152101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Droop control with incorporated dead zone for indirect energy management in DC nanogrids

Roasto, Indrek; Blinov, Andrei; Vinnikov, Dmitri 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 6 p <https://doi.org/10.1109/PEMC61721.2024.10726394>

Dual-purpose dc-dc/ac PWM modular power converter as dual-output hybrid converter

Roncero-Clemente, Carlos; Gutierrez-Escalona, Javier; **Matiushkin, Oleksandr**; Husev, Oleksandr; Romero-Cadaval, Enrique; Fernao Pires, V. Renewable energy and power quality journal 2025 / p. 183-187 <https://doi.org/10.52152/4563>

Dual-purpose dc-dc/ac PWM modular power converter as grid-forming unit in a droop-controlled ac nanogrid

Roncero-Clemente, Carlos; Escalona, Javier-Gutiérrez; **Matiushkin, Oleksandr**; Pires, V. Fernão; Milanés-Montero, María Isabel; **Romero-Cadaval, Enrique** IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 6 p <https://doi.org/10.1109/IECON55916.2024.10906022> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Dynamic network tariff in practices : key issues and challenges

Singh, Praveen Prakash; Wen, Fushuan; Palu, Ivo 2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON) 2021 / p. 1-6 <https://doi.org/10.1109/GUCON50781.2021.9573767>

ECOGRID EU Project – real time price based load control and economic benefits in a wind production based system

Aleixo, Luis; **Rosin, Argo**; Saele, Hanne; Morch, Andrei Z.; Grande, Ove S.; **Palu, Ivo** CIRED 2013 : 22nd International Conference and Exhibition on Electricity Distribution : special reports 2013 <https://doi.org/10.1049/cp.2013.1253> <https://ieeexplore.ieee.org/document/6683856>

Economic analysis of a biogas-fuelled cogeneration power plant

Kuhi-Thalfeldt, Reeli; Valtin, Juhan 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 164-168 : ill

Economical feasibility of off-grid hybrid power supply for Estonian remote areas. Part 1 : hybrid components sizing

Bolgov, Viktor; Laanetu, Margus PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 179-186 : ill <https://doi.org/10.1109/PQ.2016.7724110>

Economical feasibility of off-grid hybrid power supply for Estonian remote areas. Part 2 : determination of breakeven grid

extension distances

Bolgov, Viktor; Janson, Kuno PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 187-192 : ill <https://doi.org/10.1109/PQ.2016.7724111>

Ecosystem-based maritime spatial planning – impact on navigational safety from offshore renewable energy developments

Fetissov, Mihhail; Aps, Robert; Heinla, Priit; Kinnunen, Joukko; Korneev, Oleg; Lees, Liisi; Varjopuro, Riku From small scales to large scales - The Gulf of Finland Science Days 2017, 9th-10th October 2017, Estonian Academy of Sciences, Tallinn : Oral presentations 2017 / p. 14 https://www.etis.ee/File/DownloadPublic/ebda3e4a-2eb0-4f26-971f-f16046bc0bed?name=TheGulfOfFinlandScienceDays_2017.pdf&type=application%2Fpdf

Educating the energy informatics specialist : opportunities and challenges in light of research and industrial trends

Bordin, Chiara; **Mishra, Sambeet;** Safari, Amir; Eliassen, Frank SN Applied Sciences 2021 / art. 674 <https://doi.org/10.1007/s42452-021-04610-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Eesti energeetika 100 aastat

Vaimann, Toomas; Risthein, Endel 2018 https://www.ester.ee/record=b4774821*est

Eesti energeetika evangelist Karl Kull. Mees, kellele meeldib tegutseda enne kurvi

Saarmann, Tanel delfi.ee 2025 <https://arileht.delfi.ee/artikkel/120361126/persoon-eesti-energeetika-evangelist-karl-kull-mees-kellele-meeldib-tegutseda-enne-kurvi>

Eesti koolid käivitavad Euroopa jaoks vesinikutehnoloogide õppe [Võrguväljaanne]

postimees.ee 2022 ["Eesti koolid käivitavad Euroopa jaoks vesinikutehnoloogide õppe "](#)

Eesti sorab energeetika ajaloo prügikastis, aga tõeline tuumapomm tuleb mujalt

Samoson, Ago postimees.ee 2025 <https://arvamus.postimees.ee/8260318/ago-samoson-eesti-sorib-energeetika-ajaloo-prugikastis-aga-toeline-tuumapomm-tuleb-mujalt>

Eesti teadlased lõövad kaasa põnevas projektis, mis aitab taastuenergiat laialdasemalt kasutusele võtta ja suurendada energiatõhusust

geenius.ee 2023 [Eesti teadlased lõövad kaasa põnevas projektis, mis aitab taastuenergiat laialdasemalt kasutusele võtta ja suurendada energiatõhusust](#)

Eesti teadlased pakuvad, kuidas rohepöördega tekkivaid elektri kvaliteedikõikumisi lahendada [Võrguväljaanne]

postimees.ee 2022 ["Eesti teadlased pakuvad, kuidas rohepöördega tekkivaid elektri kvaliteedikõikumisi lahendada"](#)

Eesti teadlaste juhitud roheprojekt kiirendab päikesetehnoloogiate arendust : maailma tulevikku mõjutavates projektides tahetakse suurendada noorteadlaste rolli [Võrguväljaanne]

2022 [Eesti teadlaste juhitud roheprojekt kiirendab päikesetehnoloogiate arendust : maailma tulevikku mõjutavates projektides tahetakse suurendada noorteadlaste rolli](#)

Eesti teadlaste nutikad minuundurid hoogustavad energiapööret

Vinnikov, Dmitri; Chub, Andrii novaator.err.ee 2024 [Eesti teadlaste nutikad minuundurid hoogustavad energiapööret](#)

Eesti vajab rohkem roheliste energiatehnoloogiate spetsialiste [Võrguväljaanne]

arileht.delfi.ee 2022 [Eesti vajab rohkem roheliste energiatehnoloogiate spetsialiste](#)

Eestis kaitstud doktoritöö pakub uusi lahendusi, mis ei lase elektrit ja soojust raisata

Lepiksaar, Kertu postimees.ee 2024 [Eestis kaitstud doktoritöö pakub uusi lahendusi, mis ei lase elektrit ja soojust raisata](#)

Eestlased töötavad alternatiivenergia kallal : [ka TTÜ materjaliteaduse instituudi direktori professor Enn Mellikovi tööst päikese- ja tuuleenergia alal]

Salu, Mikk Eesti Päevaleht 2006 / lk. 12 (Ärileht)

Eestlaslik trots tõmbab tuuleenergiale pidurit

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/eestlaslik-trots-tombab-tuuleenergiale-pidurit/>

Effect of distributed photovoltaic generation on the voltage magnitude in a self-contained power supply system

Lukutin, Boris V.; Shandarova, Elena B.; Makarova, A.F.; **Švartsman, Inna** International Scientific and Practical Conference on Urgent Problems of Modern Mechanical Engineering 17–18 December 2015, Yurga, Russia 2016 / art. 012005 <https://doi.org/10.1088/1757-899X/127/1/012005> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Effects of economic shocks on power systems: {COVID-19} as a case study

Navon, Aviad; Orda, Ariel; Levron, Yoash; **Belikov, Yuri** 2021 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 8-21 October, 2021 : proceedings 2021 / 5 p. : ill <https://doi.org/10.1109/ISGTEurope52324.2021.9640021>

Effects of the COVID-19 pandemic on energy systems and electric power grids — a review of the challenges ahead
Navon, Aviad; Machlev, Ram; Carmon, David; **Onile, Abiodun Emmanuel; Belikov, Juri**; Levron, Yoash Energies 2021 / art. 1056, 14 p. : ill <https://doi.org/10.3390/en14041056> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Efficient lignin fractionation from Scots pine (Pinus sylvestris) using ammonium-based protic ionic liquid : process optimization and characterization of recovered lignin
Khan, Sharib; Rauber, Daniel; Shanmugam, Sabarathinam; Kay, Christopher W. M.; **Konist, Alar**; Kikas, Timo Polymers 2022 / art. 4637, 13 p. : ill <https://doi.org/10.3390/polym14214637> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Einari Kisel: energiapööre vajab Euroopas metallide kaevandamist ja tootmist [Võrguväljaanne]
Kisel, Einari postimees.ee 2022 "[Einari Kisel: energiapööre vajab Euroopas metallide kaevandamist ja tootmist](#)"

Einari Kisel: mis kujundab tegelikult Eestis elektri hinda?
Kisel, Einari Trialoog 2025 [Einari Kisel: mis kujundab tegelikult Eestis elektri hinda?](#)

Einari Kisel: neli küsimust, mis tegelikult määravad Eesti elektri hinna
Kisel, Einari finantsuudised.ee 2025 <https://www.finantsuudised.ee/arvamus/2025/02/09/einari-kisel-neli-kusimust-mis-tegelikult-maaravad-eesti-elektri-hinna>

Elektri võrgutasu jääb kerkima ka järgmistel aastatel
Linnart, Mart err.ee 2024 [Elektri võrgutasu jääb kerkima ka järgmistel aastatel](#)

Elektriinsener : tundub, et Eesti teadlased räägivad sagedustel, mida valitsus ei kuule [Võrguväljaanne]
Laurson, Jüri forte.delfi.ee 2022 [Elektriinsener: tundub, et Eesti teadlased räägivad sagedustel, mida valitsus ei kuule](#)

Elektrijaam minu aias
Soomere, Tarmo Postimees 2020 / Lk. 11 : fot <https://dea.digar.ee/article/postimees/2020/09/29/12.6>

Elektritootmine Eestis - kuhu edasi?
Palu, Ivo; Tull, Marek Elektriala 2023 / lk. 8-10 https://www.ester.ee/record=b1240496*est
<https://dea.digar.ee/article/AElektriala/2023/10/0/10.1>

Elektriturv vajab kiiret ajakohastamist. Energeetikaprofessor: „Sõltume täielikult ilmastikust.”
Hallik, Liina ohtuleht.ee 2023 [Elektriturv vajab kiiret ajakohastamist. Energeetikaprofessor: „Sõltume täielikult ilmastikust.”](#)

Elektriturv teeb tarbijatest kohustuslikud hasartmängijad
Puura, Erik postimees.ee 2023 [Elektriturv teeb tarbijatest kohustuslikud hasartmängijad](#)

Elumajad ehitatakse päikese abiga elektrijaamadeks : [Tallinna Tehnikaülikooli professor Jüri Krustok loob uut tehnoloogiat maailma alternatiivenergiaallikatest kõige kiiremini kasvava päikeseplatade tootmisele]
Reimer, Andres Eesti Päevaleht 2007 / lk. 4: portr (Ärileht)

Enefit Green: tuulepark toob kasu laiale ringile = Enefit Green: ветропарки приносят пользу всему обществу
aripaev.ee 2023 [Enefit Green: tuulepark toob kasu laiale ringile](#) [Enefit Green: ветропарки приносят пользу всему обществу](#)

Energeetika - otsapidi üksnes taastuvenergia küljes
Janson, Kuno; Kallaste, Ants; Bolgov, Viktor Horisont 2013 / lk. 30-36 : ill https://artiklid.elnet.ee/record=b2606466*est

Energeetika ja kütuste tulevik ehk Viiekümne viiendaks vormi
Niidu, Allan Sirp 2022 / lk. 6-7 : fot "[Energeetika ja kütuste tulevik ehk Viiekümne viiendaks vormi](#)"

Energeetika sügiskool "Alternatiivne särts" : [eelinfo : korraldajaks TTÜ energeetikateaduskond]
Kaasik, Kaisa TEUK XI : Taastuvate energiaallikate uurimine ja kasutamine : üheteistkümnenda konverentsi kogumik : Tartu, Estonia, 2009 2009 / lk. 164-165

Energeetikaekspertid andsid komisjonis meretuuleparkidele kriitilise vaate
err.ee 2024 [Energeetikaekspertid andsid komisjonis meretuuleparkidele kriitilise vaate](#)

Energeetikaekspertid lasevad valitsusliidu energiaplaani sõelapõhjaks
Pott, Toomas err.ee 2025 [Energeetikaekspertid lasevad valitsusliidu energiaplaani sõelapõhjaks](#)

Energeetikas osutub kõige kallimaks teistest sõltumine
Palu, Ivo TööstusEST 2025 / lk. 45 : portr https://www.ester.ee/record=b4481084*est

Energeetikateadlane Ivo Palu: jätkusuutlik oleks kombinatsioon – päike, tuul ning biomass ja põlevkivi

Alvela, Ain virumaateataja.postimees.ee 2023 [Energeetikateadlane Ivo Palu: jätkusuutlik oleks kombinatsioon – päike, tuul ning biomass ja põlevkivi](#)

Energia sünkroonis – kuidas ja kellega?

Hamburg, Arvi Arvamus, kultuur : [ajalehe Postimees lisa] 2021 / Lk. 2-3 <https://dea.digar.ee/article/ak/2021/10/16/2.1>

Energia trilemma tulevikus

Tamm, Liivi TööstusEST 2023 / lk. 18-20 : fot https://www.ester.ee/record=b4481084*est

Energiainformaatika: energia ja infotehnoloogia ühinemine

Petlenkov, Eduard; Belikov, Juri Elektriala 2023 / lk. 12-13 : ill., portr https://www.ester.ee/record=b1240496*est

Energiapoliitika – kas taastuv tormamine või riskantne hasartmäng?

Keypour, Javad postimees.ee 2025 <https://arvamus.postimees.ee/8212874/javad-keypour-energiapoliitika-kas-taastuv-tormamine-voi-riskantne-hasartmang>

Energiapoliitika põhialus, energiatrilemma: tasakaal varustuskindluse, taskukohasuse ja keskkonnamõjude vahel

Hamburg, Arvi Arvamus, kultuur : [ajalehe Postimees lisa] 2022 / Lk. 6-7 <https://dea.digar.ee/article/ak/2022/08/19/5.1>

Energiapööre vajab Euroopas metallide kaevandamist ja tootmist

Kisel, Einari Arvamus, kultuur : [ajalehe Postimees lisa] 2022 / Lk. 2 <https://dea.digar.ee/article/ak/2022/04/02/2.1>

Energiaseminar: Tallinnas ootab sooja pidavamaks muutmist 5000 maja

Pealinn 2023 / Lk. 9 https://www.ester.ee/record=b1287116*est

Energiat säästvatest liginullenergiamajadest tulevikus pääsu pole. Ehitamine läheb kallimaks.

Rand, Jana Maaleht 2018 / lk. 2-3

Energiateadlase hinnangul võiks uute taastuvelektrijaamade rajamisega oodata

Roomets, Katre err.ee 2023 [Energiateadlase hinnangul võiks uute taastuvelektrijaamade rajamisega oodata](#)

Energiatootmine Eestis ja lähiriikides

Konist, Alar Postimees 2020 / Lk. 6-7 : ill <https://dea.digar.ee/article/ak/2020/09/19/5.1>

Energy experts critical of government's offshore wind farms plan

news.err.ee 2024 [Energy experts critical of government's offshore wind farms plan](#)

Energy security assessment of emerging economies under global and local challenges

Sotnyk, Iryna; Kurbatova, Tetiana; Kubatko, Oleksandr; Prokopenko, Olha; Prause, Gunnar Klaus; Kovalenko, Yevhen; Trypolska, Galyna; Pysmenna, Uliana Energies 2021 / art. 5860, 20 p. : ill <https://doi.org/10.3390/en14185860>

Energy trading and management strategies in a regional integrated energy system with multiple energy carriers and renewable-energy generation

Wang, Yizheng; Jiang, Chenwei; Wen, Fushuan; Xue, Yusheng; Chen, Fei; Zhang, Lijun; Yuan, Xiang Journal of energy engineering 2021 / p. 04020076-1-04020076-12 : ill [https://doi.org/10.1061/\(ASCE\)EY.1943-7897.0000726](https://doi.org/10.1061/(ASCE)EY.1943-7897.0000726) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enhancing energy sustainability : integrating concentrated solar power in Jordan's oil shale extraction

Al-Addous, Mohammad; Baqain, Mais Hanna Suleiman; Bdour, Mathhar; Lenz, Volker International journal of low-carbon technologies 2025 / 13, p. 453-465 <https://doi.org/10.1093/ijlct/ctae297>

Enhancing innovation activities in the transition process towards renewable energy municipalities

Gerstlberger, Wolfgang Dieter; Da Mota Pedrosa, Alex; Cantner, Uwe; Kesting, Tobias International journal of innovation and sustainable development 2022 / p. 224-243 <https://doi.org/10.1504/IJSD.2022.121813> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enhancing PV hosting capacity and mitigating congestion in distribution networks with deep learning based PV forecasting and battery management

Shabbir, Noman; Kütt, Lauri; Astapov, Victor; Daniel, Kamran; Jawad, Muhammad; Husev, Oleksandr; Rosin, Argo; Martins, Joao Applied energy 2024 / art. 123770 <https://doi.org/10.1016/j.apenergy.2024.123770>

Envisioning energy futures through visual images: What would a commons-based energy system look like?

Kostakis, Vasileios; Giotitsas, Christos; Kitsikopoulos, Dimitris Energy research & social science 2024 / art. 103771 <https://doi.org/10.1016/j.erss.2024.103771>

Envisioning the future renewable and resilient energy grids – a power grid revolution enabled by renewables, energy storage, and energy electronics

Peng, Fang Zheng; Liu, Chen-Ching; Li, Yuan; Jain, Akshay Kumar; **Vinnikov, Dmitri** IEEE journal of emerging and selected topics in industrial electronics 2024 / p. 8-26 <https://doi.org/10.1109/JESTIE.2023.3343291>

Euroopa kobab pimeduses: miks kadus Lõuna-Euroopas ootamatult elekter?

Kivi, Krister postimees.ee 2025 <https://majandus.postimees.ee/8241615/luubi-all-euroopa-kobab-pimeduses-miks-kadus-louna-euroopas-ootamatult-elekter>

Euroopa tippsündmus TTÜs : [27.-28. veebr. 2007 toimunud ELi 7. raamprogrammi tutvustav avaüritus alternatiivenergiast - "Päikeseenergeetika"]

Mente et Manu 2007 / lk. 1 https://www.ester.ee/record=b1242496*est

Evaluation of oil potential and pyrolysis kinetics of renewable fuel and oil shale samples by rock-eval analyzer

Johannes, Ille; Kruusement, Kristjan; Veski, Rein 17th International Symposium on Analytical and Applied Pyrolysis : Budapest, Hungary, May 21-26, 2006 : book of abstracts 2006 / p. 157

Experts question necessity of new Estonia-Latvia electricity connection

news.err.ee 2025 <https://news.err.ee/1609631540/experts-question-necessity-of-new-estonia-latvia-electricity-connection>

Factors affecting the improvement of district heating. Case studies of Estonia and Serbia

Rušeljuk, Pavel; Volkova, Anna; Lukic, Nebojša; **Lepiksaar, Kertu;** Nikolic, Novak; Nešovic, Aleksandar; **Siirde, Andres** Environmental and Climate Technologies 2021 / p. 521–533 <https://doi.org/10.2478/rtuct-2020-0121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Faktikontroll küsib ekspertidelt: Kas ühe tuuliku eluiga on lühem kui elektrijaamal? Miks me ei saa CO2 turult lahkuda? [Võrguväljaanne]

Malts, Kaili epl.delfi.ee 2022 "[Faktikontroll küsib ekspertidelt: Kas ühe tuuliku eluiga on lühem kui elektrijaamal? Miks me ei saa CO2 turult lahkuda?](#)"

Fault-tolerant control of a grid-connected bipolar DC microgrid with high penetration of intermittent renewable energy

Senanayaka, Jagath; Khang, Huynh Van; **Rassõlkin, Anton; Vaimann, Toomas;** Zakis, Janis; Pomarnacki, Raimondas IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / p. 1-6 <https://doi.org/10.1109/IECON49645.2022.9968572> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Feasibility of solar hybrid energy system at a conservation park: Technical, economic, environmental analysis

Sreenath, Sukumaran; Azmi, Azlin Mohd; Ismail, Zubir Ahmad Mohd Energy reports 2023 / p. 711-719 <https://doi.org/10.1016/j.egy.2022.11.065>

Feasibility study of a DC house connected to a conventional AC distribution network

Hokmabad, Hossein Nourollahi; Shabir, Noman; Astapov, Victor; Petlenkov, Eduard; Husev, Oleksandr; Belikov, Yuri 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604419>

Feasibility study of three-phase modular converter for dual-purpose application in DC and AC microgrids

Roncero-Clemente, Carlos; **Husev, Oleksandr; Matiushkin, Oleksandr;** Gutierrez-Escalona, Javier; Barrero-Gonzalez, Fermin; **Vinnikov, Dmitri;** Strzelecki, Ryszard IEEE journal of emerging and selected topics in power electronics 2024 / p. 1348-1358 <https://doi.org/10.1109/JESTPE.2023.3247960>

Features extraction of wind ramp events from a virtual wind park

Mishra, Sambheet; Ören, Esin; Bordin, Chiara; **Wen, Fushuan; Palu, Ivo** Energy reports 2020 / p. 237–249 <https://doi.org/10.1016/j.egy.2020.08.047> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Financial evaluation of using off-grid as an alternative to the traditional power line construction

Mere, Tarmo; Hamburg, Arvi; Hõbejõgi, Tiit; Laidre, Marti; **Valtin, Juhan** Przegląd elektrotechniczny = Electrical review 2016 / p. 206-210 : ill

Flexibility investigation of price-responsive batteries in the microgrids cluster

Ahmadihangar, Roya; Azizi, Elnaz; Subham, Sahoo; **Håring, Tobias; Rosin, Argo; Vinnikov, Dmitri;** Dragicevic, Tomislav; Blaabjerg, Frede Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 456-461 : ill <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161667>

Forecasting PV energy generation using transformer-based architectures: A comparative study of Lag-Llama, TFT, and DeepAR

Amjad, Furqan; Korötko, Tarmo; Rosin, Argo 2024 IEEE 65th International Scientific Conference on Power and Electrical

Formation and characterization of stable TiO₂/Cu₂O-based solar cells

Wisn, Grzegorz; Sawicka-Chudy, Paulina; **Sibinski, Maciej**; Yavorskyi, Rostyslav; Łabuz, Mirosław; Ploch, Dariusz; Bester, Mariusz Materials 2023 / art. 5683, 15 p. : ill <https://doi.org/10.3390/ma16165683> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A fuzzy rule-based model for the assessment of macrobenthic habitats under hydropeaking impact

Schneider, Matthias; Kopecki, Janina; **Tuhtan, Jeffrey Andrew** River research and applications 2017 / p. 377-387 : ill <http://dx.doi.org/10.1002/rra.3079>

Future system challenges in Europe. Contributions to solutions from connection network codes

Urdal, Helge; Martinez Villanueva, Sergio; **Kilter, Jako**; Jahn, Jörg; Sprooten, Jonathan; Baranauskas, Audrius 2016 CIGRE USNC International Colloquium on Evolution of Power System Planning to Support Connection of Generation, Distributed Resources and Alternative Technologies : 02-03 November 2016, Philadelphia, USA : proceedings 2016 / p. 1-8 : ill

Füüsikaprofessor kritiseerib: riiklikul tuumaenergiaraportil on suur puudujääk

Eesti Päevaleht 2024 / lk. 6 <https://dea.digar.ee/article/eestipaevaleht/2024/01/04/5.5>

Galvanically isolated quasi-Z-source DC-DC converters with combined energy transfer for renewable energy sources integration

Chub, Andrii; Vinnikov, Dmitri; Jalakas, Tanel 2015 IEEE International Conference on Industrial Technology (ICIT 2015) : Seville, Spain, 17-19 March 2015 / p. 2896-2900 : ill <https://doi.org/10.1109/ICIT.2015.7125525> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A Gramian-based tool for modeling converter-dominated power systems

de Moraes Dias Campos, Nathalia; Sarnet, Tanel; Kilter, Jako IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863396>

Grid-connected buck-boost inverter based on unfolding circuit

Matiushkin, Oleksandr; Husev, Oleksandr; Vinnikov, Dmitri; Gordienko, Vyacheslav 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659824>

Grid-connected single-phase 3L-T-type qZS inverter for renewable energy

Roncero-Clemente, Carlos; **Husev, Oleksandr**; Ruiz-Cortes, Mercedes; Romero-Cadaval, Enrique; Barrero-Gonzalez, Fermin; Gonzalez-Romera, Eva IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 5003-5007 : ill <https://doi.org/10.1109/IECON.2019.8926888> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Growth rate of solar thermal systems in Baltic States : slow but steady wins the race?

Valančius, Rokas; Borodinecs, Anatolijs; **Kalamees, Targo**; Fokaides, Paris; Jurelionis, Andrius; Jonynas, Rolandas Energy Sources, Part B: Economics, Planning and Policy 2020 / p. 423 - 435 <https://doi.org/10.1080/15567249.2020.1813844> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Helen Sooväli-Sepping: kliimaseadus sõnastab uued Eestis elamise ja tegutsemise põhimõtted

Sooväli-Sepping, Helen delfi.ee 2024 [Helen Sooväli-Sepping: kliimaseadus sõnastab uued Eestis elamise ja tegutsemise põhimõtted](https://delfi.ee/2024/01/04/5.5)

High-performance quasi-Z-source series resonant DC-DC converter for photovoltaic module-level power electronics applications

Vinnikov, Dmitri; Chub, Andrii; Liivik, Elizaveta; Roasto, Indrek IEEE transactions on power electronics 2017 / p. 3634-3650 : ill <https://doi.org/10.1109/TPEL.2016.2591726> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hoia raha kokku : kuidas kodus säästlikult energiat tarbida

Kongas, Kerttu Postimehe lisa 2024 [Hoia raha kokku: kuidas kodus säästlikult energiat tarbida](https://postimees.ee/2024/01/04/5.5)

Holger Mölder: kääbikumentalteet tapab innovatsiooni

Mölder, Holger Trialoog 2025 <https://trialog.taltech.ee/holger-molder-kaabikumentalteedile-toetumine-tapab-innovatsiooni/>

Home energy management systems: A review of the concept, architecture, and scheduling strategies

Han, Binghui; **Zahraoui, Younes**; Mubin, Marizan; Mekhilef, Saad; Seyedmahmoudian, Mehdi; Stojcevski, Alex IEEE Access 2023 / p. 19999-20025 <https://doi.org/10.1109/ACCESS.2023.3248502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hot-spots of large wave energy resources in relatively sheltered sections of the Baltic Sea coast

Kovaleva, Olga; Eelsalu, Maris; Soomere, Tarmo Renewable and sustainable energy reviews 2017 / p. 424-437 : ill <https://doi.org/10.1016/j.rser.2017.02.033> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A hybrid Genetic Algorithm and Monte Carlo simulation approach to predict hourly energy consumption and generation by a cluster of Net Zero Energy Buildings

Garshasbi, Samira; **Kurnitski, Jarek**; Mohammadi, Yousef Applied energy 2016 / p. 626-637 : ill

<https://doi.org/10.1016/j.apenergy.2016.07.033> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hybrid low-power Wind Generation and PV grid-connected system with HPC, PC and MPPT control

Rosa, Carlos; **Vinnikov, Dmitri**; Romero-Cadaval, Enrique; Pires, Vitor; Martins, Joao Proceedings : 2014 IEEE 23rd International Symposium on Industrial Electronics (ISIE) : Grand Cevahir Hotel and Convention Center, Istanbul, Turkey, 01-04 June, 2014 2014 / p. 2024-2029 : ill

Ida-Virumaa tulevik: põlevkivist uue ettevõtlusmaastiku suunas = От сланца на пути к новому предпринимательскому ландшафту

Roosileht, Mare pohjarannik.postimees.ee 2023 [Ida-Virumaa tulevik: põlevkivist uue ettevõtlusmaastiku suunas](#) [От сланца на пути к новому предпринимательскому ландшафту](#)

Ida-Virumaa tööstuse areng sõltub noorte tehnilisest taibukusest, mida saab arendada kohalikes õppeasutustes

Horohordina, Natalja Põhjarannik 2023 / Lk. 22 <https://dea.digar.ee/article/eestipaevaleht/2023/04/19/20.3>

Impact of investments and R&D costs in renewable energy technologies on companies' profitability indicators: assessment and forecast

Prokopenko, Olha; Kurbatova, Tetiana; Khalilova, Marina; Zerkal, Anastasiia; **Prause, Gunnar Klaus**; Binda, Jacek; Berdiyrov, Temur; Klapkiv, Yuriy; Sanetra-Pólgrabi, Sabina; Komarnitskyi, Igor Energies 2023 / art. 1021, 17 p. : ill

<https://doi.org/10.3390/en16031021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impact of transformer turns ratio on the power losses and efficiency of the wide range isolated buck–boost converter for photovoltaic applications

Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; **Chub, Andrii**; **Sidorov, Vadim**; **Liivik, Elizaveta** Energies 2020 / art. 5645, 21 p

<https://doi.org/10.3390/en13215645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impacts of grid-scale battery systems on power system operation, case of Baltic region

Ahmadihangar, Roya; **Plaum, Freddy**; **Häring, Tobias**; **Drovtar, Imre**; **Korõtko, Tarmo**; **Rosin, Argo** IET Smart Grid 2024 / p. 101-119 <https://doi.org/10.1049/stg2.12142>

Impacts of offshore grid developments in the North Sea region on market values by 2050: How will offshore wind farms and transmission lines pay?

Koduvere, Hardi; Traber, Thure; Koivisto, Matti J. 2017 14th International Conference on the European Energy Market (EEM), 6-9 June, 2017 2017 / p. 1-6 : ill <https://doi.org/10.1109/EEM.2017.7981945>

Implications of digitalization in facilitating socio-technical energy transitions in Europe

Veskioja, Kaija; **Soe, Ralf-Martin** Energy research & social science 2022 / art. 102720 <https://doi.org/10.1016/j.erss.2022.102720> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improved fractional open circuit voltage MPPT methods for PV systems

Baimel, Dmitry; Tapuchi, Saad; Levron, Yoash; **Belikov, Juri** Electronics 2019 / art. 321 <https://doi.org/10.3390/electronics8030321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improving dynamic stability of deregulated power system

Rouhani, Seyed Hossein; **Ahmadihangar, Roya**; **Häring, Tobias**; **Rosin, Argo** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p <https://doi.org/10.1109/RTUCON51174.2020.9316618>

Increasing PV hosting capacity in LV distribution networks using congestion control techniques

Shabbir, Noman 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 87-88 https://www.ester.ee/record=b5504019*est

Influence of solar power plants on 0.4 kV consumers

Rubanenka, Olena; Hunko, Iryna; Rubanenka, Oleksandr; **Rassõlkin, Anton** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982257>

Ingrid Nielsen: Eesti teadlased teavad täpselt, mis tulevikus elektri stepslisse toob [Võrguväljaanne]

Nielsen, I. epl.delfi.ee 2022 ["Ingrid Nielsen: Eesti teadlased teavad täpselt, mis tulevikus elektri stepslisse toob"](#)

Innovative synergy CCUS and renewable energy project offshore Baltic using CO2 emissions from the cement industry

Šogenov, Kazbulat; **Šogenova, Alla** Proceedings of the 15th Greenhouse Gas Control Technologies Conference 15-18 March

Kelle asi on rohepööre?

Kattel, Rainer Postimees 2022 / Lk. 13 <https://dea.digar.ee/article/postimees/2022/09/06/14.7>

Kes võib ja kes maksab kinni ülemineku taastuenergiadele? Kuidas leida tasakaal energiasüsteemi toimimise ning tarbija ja tootja huvide vahel?

Männasoo, Kadri; Kisel, Einari 2025 <https://doi.org/10.48726/rk818-6j360>

Kirjeldan praegu ühte üsna täiuslikku naist ehk insener-barbid rajavad teed

Kristmann, Katriin postimees.ee 2024 [Kirjeldan praegu ühte üsna täiuslikku naist ehk insener-barbid rajavad teed](#)

Kohalikud kõrgkoolid ja põlevkivipööre

Roosileht, Mare Postimees 2020 / lk. 19 : portr https://www.ester.ee/record=b1072778*est Kohalikud kõrgkoolid ja põlevkivipööre

Konist: Eesti peaks energeetikas keskenduma eelkõige oma ressurssidele

Konist, Alar err.ee 2025 [Konist: Eesti peaks energeetikas keskenduma eelkõige oma ressurssidele](#)

Konist: energia tootmine peaks olema kui supi keetmine, Strandberg: kui taastuenergiat õnnestub salvestada, siis energiakriise ei saagi tekkida [Võrguvaljaanne]

Konist, Alar; Strandberg, Marek pealinn.ee 2022 ["Konist: energia tootmine peaks olema kui supi keetmine, Strandberg: kui taastuenergiat õnnestub salvestada, siis energiakriise ei saagi tekkida"](#)

Konverents: Kuidas kiirendada linnapiirkondades üleminekut taastuenergiadele?

pealinn.ee 2023 [Konverents: Kuidas kiirendada linnapiirkondades üleminekut taastuenergiadele?](#)

Kui läheks päikesele vastu ja jätaks varjud selja taha

Grossberg-Kuusk, Maarja Sirp 2022 / lk. 36-37 : fot <https://sirp.ee/s1-artiklid/c21-teadus/kui-laheks-paikesele-vastu-ja-jataks-varjud-selja-taha/>

Kuidas energia- ja kliimakava meie saartel rööbastele saada? Õppige teiste kogemustest

Laid, Üllar Hiiu Leht 2024 <https://dea.digar.ee/article/hiiuleht/2024/10/24/3.6> Kuidas energia- ja kliimakava meie saartel rööbastele saada? Õppige teiste kogemustest

Kuidas rohepöörde käigus õiglus tagada?

Keller, Margit; Vihalemm, Triin; Karo, Erkki Universitas Tartuensis : UT : Tartu Ülikooli ajakiri 2024 / lk. 8-11 : fot https://www.ester.ee/record=b2459950*est

Kuidas saada roheline energia eksperdiks? Õppides TalTechi uues magistriprogrammis!

Grossberg-Kuusk, Maarja; Timmo, Kristi delfi.ee 2025 <https://www.delfi.ee/artikkel/120372237/kuidas-saada-rohelise-energia-eksperdiks-oppides-taltech-i-ues-magistriprogrammis>

Kuidas soodustada uute tööstuste teket energiasektori näitel : lühianalüüs [Võrguteavik]

Lember, Veiko; Karo, Erkki; Kärg, Mihkel; Tõnurist, Piret 2016 http://www.wec-estonia.ee/documents/103/toostuse_arendamine.pdf

Kuidas tagada varustuskindlus ilma fossiilkütusteta?

Hamburg, Arvi Postimees 2021 / Lk. 14-15 <https://dea.digar.ee/article/postimees/2021/06/11/12.3>

Kuus saart asutavad Saarte Energiaagentuuri

Kalmus, Kertu saartehaal.postimees.ee 2023 [Kuus saart asutavad Saarte Energiaagentuuri](#)

Kütuseelement ergutab jätkuvalt fantaasiat : [kütuseelemendist Dmitri Vinnikov ja Madis Lehtla]

Juurak, Raivo; Vinnikov, Dmitri; Lehtla, Madis Õpetajate Leht 2010 / 5. märts, lk. 7 : fot https://artiklid.elnet.ee/record=b1962215*est

Large area bar coated TiO2 electron transport layers for perovskite solar cells with excellent performance homogeneity

Mandati, Sreekanth; Dileep, K. Reshma; Veerappan, Ganapathy; Ramasamy, Easwaramoorthi Solar Energy 2022 / p. 258-268 <https://doi.org/10.1016/j.solener.2022.04.060>

Latest developments on RES policy, implementation and planning in Estonia

Raesaar, Peeter Proceedings of the workshop "Data Gathering on Renewable Energies for New Member States and Candidate Countries" : 13-15 November 2007, Istanbul, Turkey 2008 / p. 280-292

Lääne-Eesti saarte energiaprojekt sai LIFE programmist üle 1,3 miljoni euro toetust

rohe.geenius.ee 2024 [Lääne-Eesti saarte energiaprojekt sai LIFE programmist üle 1,3 miljoni euro toetust](#)

Maailma energia ülevaade

Tanning, Lembo 2010 https://www.ester.ee/record=b2636232*est

Maapõue veel kasutamata võimalused

Soesoo, Alvar 2021

Maarja Grossberg-Kuusk: elu akadeemilisel rajal ja teekond tippteadusesse

Grossberg-Kuusk, Maarja delfi.ee 2025 <https://arileht.delfi.ee/artikkel/120372392/maarja-grossberg-kuusk-elu-akadeemilisel-rajal-ja-teekond-tippteadusesse>

Magnetically integrated high step-up resonant DC-DC converter for distributed photovoltaic systems

Vinnikov, Dmitri; Chub, Andrii; Liivik, Elizaveta; Blaabjerg, Frede IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society : proceedings : China National Convention Center, Beijing, China, 29. October - 01. November, 2017 2017 / p. 7691-7697 : ill <https://doi.org/10.1109/IECON.2017.8217348>

Majandus- ja inseneriteadus panevad energiakriisi leevendamiseks pead kokku

Staehr, Karsten Postimees 2022 / Lk. 12 <https://dea.digar.ee/article/postimees/2022/01/25/12.1>

Managing energy efficiency and renewable energy in the residential sector : a bibliometric study

Sotnyk, Iryna; Kurbatova, Tetiana; Kubatko, Oleksandra; Prokopenko, Olha; Järvis, Marina Problems and perspectives in management 2023 / p. 511-527 [https://doi.org/10.21511/ppm.21\(3\).2023.41](https://doi.org/10.21511/ppm.21(3).2023.41) [Journal metrics at Scopus](#) [Article at Scopus](#)

Managing Green Transformation of Baltic Sea Ports : Challenges and Drivers for Energy Saving and Renewable Energy Actions

Toomeoja, Eliise; Gülmez, Secil; Tapaninen, Ulla Pirita International Association of Maritime Economist-IAME 2025 2025 / 18 p

Marek Strandberg: "Hea peaminister, vana puu peeretus pole ohtlik!"

Teder, Teet; Strandberg, Marek Õhtuleht 2016 / lk. 2

Marine trade-offs : comparing the benefits of off-shore wind farms and marine protected areas

Karlõševa, Aljona; Nömmann, Sulev; Nömmann, Tea Energy economics 2016 / p. 127-134 : ill <http://dx.doi.org/10.1016/j.eneco.2015.12.022>

Meid valitsevad juhutarkus ja juhuelekter

Rosin, Argo; Landsberg, Mart postimees.ee 2025 [Meid valitsevad juhutarkus ja juhuelekter](#)

Meie elektrisüsteemi arendamine käib hetkemeeleolude alusel

Rajangu, Väino Elektriala 2024 / lk. 24-25 : fot, portr https://www.ester.ee/record=b1240496*est

Meie elektrisüsteemi eripära

Rajangu, Väino Postimees 2024 / lk. 13 <https://dea.digar.ee/article/postimees/2024/10/03/11.5>

Meie savijalgadel energiamajandus

Hamburg, Arvi Arvamus, kultuur : [ajalehe Postimees lisa] 2021 / Lk. 20 <https://dea.digar.ee/article/ak/2021/12/23/5.8>

Meretuuleparke plaanitakse rohkem kui võrk kannatab

Klementi, Joakim; Pott, Toomas err.ee 2023 [Meretuuleparke plaanitakse rohkem kui võrk kannatab](#)

Merilin Metsik ja Argo Rosin: mis takistab koduse elektritarbimise juhtimist?

Metsik, Merilin; Rosin, Argo err.ee 2023 [Merilin Metsik ja Argo Rosin: mis takistab koduse elektritarbimise juhtimist?](#)

Merit Kindsigo ja Inga Zaitseva-Pärnaste: merepõhjast valgusesse

Kindsigo, Merit; Zaitseva-Pärnaste, Inga err.ee 2025 <https://www.err.ee/1609636037/merit-kindsigo-ja-inga-zaitseva-panaste-merepohjast-valgusesse>

Methodological approach to determining the effect of parallel energy consumption on district heating system

Latõšov, Eduard; Volkova, Anna; Siirde, Andres; Kurnitski, Jarek; Thalfeldt, Martin Environmental and Climate Technologies 2017 / p. 5-14 : ill <https://doi.org/10.1515/ruect-2017-0001> [Journal metrics at Scopus](#) [Article at Scopus](#)

Mida tähendab kaugküttevõrkudele antav tõhusa kaugkütte määrgis? [Võrguväljaanne]

postimees.ee 2022 ["Mida tähendab kaugküttevõrkudele antav tõhusa kaugkütte määrgis?"](#)

Mida vajavad tulevikua autod kütuseks?

Niidu, Allan Inseneria 2015 / lk. 12-19 : ill https://artiklid.elnet.ee/record=b2738547*est

MIGRATE - research enabling 100% renewable generation in future power systems

Löper, Mari; Kangro, Triin; Tuttelberg, Kaur; Tealane, Marko; Kilter, Jako 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 175-181 : ill http://ise.elnet.ee/record=b2950104~S2*est

Mikrovõrk võimaldab energiakasutust tõhusamalt juhtida

Alvela, Ain TööstusEST 2024 / lk. 26-29 : ill https://www.ester.ee/record=b4481084*est

Millised on tulevikukütused ja kust hakkame saama energiat?

Niidu, Allan Äripäev 2021 / Lk. 3 : fot ["Millised on tulevikukütused ja kust hakkame saama energiat?"](#)

Millised on võimalikud alternatiivid naftast toodetud vedelkütustele?

Meremees. Veeteede Ameti teataja 2021 / lk. 7-8 : fot https://issuu.com/veeteedeamet/docs/meremees_2021_2-4._veeteede_teataja_2021_2-4

MIMO reinforcement learning based approach for frequency support in microgrids with high renewable energy penetration

Škiparev, Vjatseslav; Belikov, Juri; Petlenkov, Eduard 2021 IEEE Power & Energy Society General Meeting (PESGM), 26-29 July 2021 2021 / 5 p. : ill <https://doi.org/10.1109/PESGM46819.2021.9637942>

Minimal output impedance required for stability of grid-supporting inverters

Ofir, Ron; Zargari, Noa; Belikov, Juri; Levron, Yoash IEEE transactions on power delivery 2021 / p. 2241-2244
<https://doi.org/10.1109/TPWRD.2021.3071023> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ministeeriumi optimism elektri hinna languse asjus pälvib kriitikat

Ideon, Argo maaleht.delfi.ee 2024 [Ministeeriumi optimism elektri hinna languse asjus pälvib kriitikat](#)

Mis on tulevikus Eestis põhiline energiaallikas? [Võrguväljaanne]

delfi.ee 2021 ["Mis on tulevikus Eestis põhiline energiaallikas?"](#)

Mis võivad olla Eesti kõrgete energiahindade juurpõhjused?

Konist, Alar Arvamus, kultuur : [ajalehe Postimees lisa] 2022 / Lk. 9 <https://dea.digar.ee/article/ak/2022/01/15/8.1>

Modelling of consumption shares for small wind energy prosumers

Annuk, Andres; Ya'ici, Wahiba; Blinov, Andrei; Märss, Maido; Trashchenkov, Sergei; Miidla, Peep Symmetry 2021 / art. 647
<https://doi.org/10.3390/sym13040647> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modelling of energy recovery in electric vehicles for various braking scenarios on changing road surfaces

Vodovozov, Valery; Raud, Zoja Renewable energy and power quality journal 2020 / p. 178–183 <https://doi.org/10.24084/repqj18.264>
Journal metrics at Scopus Article at Scopus

Modelling of wind energy-based microgrid system implementing MMC

Mishra, Sambeet; Palu, Ivo; Madichetty, Sreedhar; Suresh Kumar, L.V. International Journal of Energy Research 2016 / p. 952-962
<https://doi.org/10.1002/er.3490> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

MPC-based optimal control of battery management system in residential application

Tammaru, T.; Hokmabad, Hossein Nourollahi; Levron, Yoash; Belikov, Juri IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863121>

Multi-mode quasi-Z-source series resonant DC/DC converter for wide input voltage range applications

Vinnikov, Dmitri; Chub, Andrii; Roasto, Indrek; Liivik, Liisa Applied Power Electronics Conference and Exposition : APEC 2016 : Long Beach Convention & Entertainment Center, March 20-24, 2016 2016 / p. 2533-2539 : ill
<https://doi.org/10.1109/APEC.2016.7468221> Conference Proceedings at Scopus Article at Scopus Article at WOS

Multiphase galvanically isolated impedance-source DC-DC converter for residential renewable energy applications

Vinnikov, Dmitri; Chub, Andrii; Liivik, Elizaveta 2017 IEEE International Symposium on Industrial Electronics (ISIE) : Edinburgh International Conference Centre, Edinburgh, Scotland, United Kingdom, 19-21 June, 2017 : proceedings 2017 / p. 1775-1780 : ill
<https://doi.org/10.1109/ISIE.2017.8001517>

Multiphase quasi-z-source DC-DC converters for residential distributed generation systems

Chub, Andrii; Vinnikov, Dmitri; Liivik, Elizaveta; Jalakas, Tanel IEEE transactions on industrial electronics 2018 / p. 8361-8371 : ill
<https://doi.org/10.1109/TIE.2018.2801860> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Multiport DC/DC converters for renewable energy systems : general topologies and control methods

Andrijanovičš, Anna Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and The 1st Congress of World Engineers and Riga Polytechnical Institute : RTU Alumni, Paper 18 of Subsection of Power Electronic Converters and Applications 2012 / 6 p. : ill

Multiport DC/DC converters for renewable energy systems : general topologies and control methods

Andrijanovičš, Anna Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the

Mürkroheline Taani vs. mustjashall Eesti [Võrguväljaanne]

Karnau, Andrus postimees.ee 2021 / Lk. 10-11 : fot ["Mürkroheline Taani vs. mustjashall Eesti"](https://www.ester.ee/record=b1072778*est) https://www.ester.ee/record=b1072778*est

Neural network control of green energy vehicles with blended braking systems

Vodovozov, Valery; Petlenkov, Eduard; Aksjonov, Andrei; Raud, Zoja Renewable Energy & Power Quality Journal 2021 / p. 344-349 <https://doi.org/10.24084/repqj19.291> [Journal metrics at Scopus](#) [Article at Scopus](#)

New economic concept of synergy of CO₂ geological storage and enhanced oil recovery in E6 structure offshore Latvia

Šogenov, Kazbulat; Šogenova, Alla 79th EAGE Conference and Exhibition 2017 : Paris, France, June 12-15, 2017 2017 / p. 1-5 <http://dx.doi.org/10.3997/2214-4609.201700761>

A new virtual synchronous generator design based on the SMES system for frequency stability of low-inertia power grids

Magdy, Gaber; Bakeer, Abualkasim Ahmed Ali; Nour, Morsy; Petlenkov, Eduard Energies 2020 / art. 5641, 17 p. : ill <https://doi.org/10.3390/en13215641> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Noored heidavad põlevkivi kõrvale, nad eelistavad tuumaenergiat

Kuhi-Thalfeldt, Reeli Eesti Päevaleht 2022 / lk. 3 <https://dea.digar.ee/article/eestipaevaleht/2022/12/06/3.6> Reeli Kuhi-Thalfeldt: noored energeetikud heidavad põlevkivi kõrvale, nad eelistavad tuumaenergiat

Novel approach immune to partial shading for photovoltaic energy harvesting from building integrated PV (BIPV) solar roofs

Chub, Andrii; Korkh, Oleksandr; Kosenko, Roman; Vinnikov, Dmitri 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 2243-2252 : ill <https://ieeexplore.ieee.org/document/8515623>

Novel droop control strategy for indirect battery management in DC nanogrids

Roasto, Indrek; Vinnikov, Dmitri; Blinov, Andrei Proceedings of the Estonian Academy of Sciences 2024 / p. 345-355 <https://doi.org/10.3176/proc.2024.4.03>

Novel family of quasi-Z-source DC/DC converters derived from current-fed push-pull converters

Chub, Andrii; Husev, Oleksandr; Vinnikov, Dmitri; Blaabjerg, Frede 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 4 2014 / p. 3175-3184 : ill

Novel family of single-stage buck-boost inverters based on unfolding circuit

Husev, Oleksandr 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 39-40 : ill https://www.ester.ee/record=b5183874*est

Novel family of single-stage buck-boost inverters based on unfolding circuit : [conference paper]

Matiushkin, Oleksandr; Husev, Oleksandr 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 128-129 : ill http://ise.elnet.ee/record=b2950043-S2*est

A novel hysteresis power point optimizer for distributed solar power generation

Veligorskyi, Oleksandr; Husev, Oleksandr; Kosenko, Roman; Vinnikov, Dmitri Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 12-22 : ill <https://doi.org/10.2478/ecce-2018-0002>

Nutikas mikrovõrk annab alakasutatud tänavavalgustustaristule uue elu

Alvela, Ain novaator.err.ee 2023 [Nutikas mikrovõrk annab alakasutatud tänavavalgustustaristule uue elu](#)

Nüüdisaegsete energialahenduste otsingul: reis Gotlandile, Bornholmile ja Sams0le

Paenurk, Rainer; Piirsalu, Ingrid Saaremaa Teataja 2024 / lk. 6 [Nüüdisaegsete energialahenduste otsingul: reis Gotlandile, Bornholmile ja Sams0le](#) https://www.ester.ee/record=b4762857*est

Olukord kontrolli all. Eelmise talve gaasi- ja elektrivarustuse paanika jääb tänavu Eestis ära

Raig, Tanel Eesti Päevaleht 2023 / Lk. 12-13 <https://dea.digar.ee/article/eestipaevaleht/2023/06/21/11.4>

Operation optimization of an integrated energy service provider with ancillary service provision

Lai, Xinyi; Xie, Zhihan; Xu, Danlu; Ying, Shuyang; Zeng, Yiming; Jiang, Chenwei; Wang, Fei; Wen, Fushuan; Palu, Ivo Energies 2022 / art. 4376, 15 p. : ill <https://doi.org/10.3390/en15124376> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Operation possibility of grid connected quasi-Z-source inverter with energy storage and renewable energy generation in wide power range

Kroics, Kaspars; **Zakis, Janis**; Suzdalenko, Alexander; **Husev, Oleksandr**; Tytelmaier, Kostiantyn; Khandakji, Kamal 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 564-569 : ill <https://doi.org/10.1109/UKRCON.2017.8100303>

Optimal energy management of grid-connected multi-microgrid systems considering demand-side flexibility : a two-stage multi-objective approach

Karimi, Hamid; Gharehpetian, Gevork B.; **Ahmadihangar, Roya**; **Rosin, Argo** Electric power systems research 2023 / art. 108902 <https://doi.org/10.1016/j.epr.2022.108902> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimal operation of district heat network in electricity and balancing markets

Javanshir, Nima; Syri, Sanna; **Tervo, Seela**; **Rosin, Argo** SSRN 2022 / 38 | <https://doi.org/10.2139/ssrn.4074474>

Optimization of renewable energy for buildings with energy storages and 15-minute power balance

Savolainen, Rebecka; Lahdelma, Risto Energy 2022 / art. 123046 <https://doi.org/10.1016/j.energy.2021.123046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Organizational and economic mechanisms for promoting residential battery energy storage systems in Ukraine

Trypolska, Galyna; Kurbatova, Tetiana; Kubatko, Oleksandra; **Prause, Gunnar Klaus**; Domashenko, Maryna International Journal of Energy Economics and Policy 2024 / p. 501-512 <https://doi.org/10.32479/ijee.16385>

Otse kell 10 : riigikogu arutab riiklikult tähtsa küsimusena elektri hinnatõusu [Võrguväljaanne]

2021 "OTSE kell 10: riigikogu arutab riiklikult tähtsa küsimusena elektri hinnatõusu "

Output voltage control system for a three-level neutral-point clamped quasi-Z-source inverter

Roncero-Clemente, Carlos; **Husev, Oleksandr**; Stepenko, Serhii; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** Przegląd elektrotechniczny = Electrical review 2013 / p. 76-80 : ill <http://pe.org.pl/articles/2013/5/16.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

An Overview of bidirectional AC-DC grid connected converter topologies for low voltage battery integration

Kroics, Kaspars; **Husev, Oleksandr**; Tytelmaier, Kostiantyn; **Zakis, Janis**; Veligorskyi, Oleksandr International Journal of Power Electronics and Drive System (IJPEDS) 2018 / p. 1223-1239 : ill <https://doi.org/10.11591/ijpeds.v9.i3.pp1223-1239>

Overview of Energy Management Systems for net zero energy buildings

Maask, Vahur 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 172-174 : ill http://ise.elnet.ee/record=b2950102~S2*est

Peak shaving of a district heated office building with short-term thermal energy storage in Finland

Ju, Yuchen; **Jokisalo, Juha**; **Kosonen, Risto** Buildings 2023 / art. 573, 23 p. : ill <https://doi.org/10.3390/buildings13030573> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Peer production and desktop manufacturing : the case of the Helix-T wind turbine project

Kostakis, Vasileios; Fountouklis, Michalis; **Drechsler, Wolfgang** Science, technology & human values 2013 / p. 773-800 : ill <https://doi.org/10.1177/0162243913493676> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pelletiairi ja puidupõletamine kliimat ei päästa

Maran, Kaur Postimees 2020 / Lk. 4-5 : fot <https://dea.digar.ee/article/postimees/2020/10/02/3.8>

A penalty scheme for mitigating uninstructed deviation of generation outputs from variable renewables in a distribution market

Yang, Jiajia; Dong, Zhao Yang; **Wen, Fushuan**; Chen, Qixin; Luo, Fengji; Liu, Weijia; Zhan, Junpeng IEEE Transactions on Smart Grid 2020 / p. 4056 - 4069 <https://doi.org/10.1109/TSG.2020.2993049> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance analysis of protection methods in residential DC microgrids

Jalakas, Tanel; Banavath, Satish Naik; **Chub, Andrii**; **Roasto, Indrek**; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227388>

Performance evaluation of a three-phase PV power plant under unbalanced conditions with islanding detection reliability test

Alvi, Anas Abdullah; Romero-Cadaval, Enrique; Gonzalez-Romera, Eva; Vinnikov, Dmitri; Hassan, Jamil 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227391>

Photovoltaic-powered seasonal snow storage-assisted district cooling system: Site suitability analysis and performance

assessment

Sreenath, Sukumaran; Kirs, Tanel; Kirs, Kristian; Volkova, Anna Energy 2024 / art. 133586

<https://doi.org/10.1016/j.energy.2024.133586>

Planned wind farm developments exceed grid capacity

Klementi, Joakim; **Agabus, Hannes** news.err.ee 2023 [Planned wind farm developments exceed grid capacity](#)

Policy paper on renewable energy and energy efficiency of residential housing : Estonia

Kalvet, Tarmo Expert evaluation network delivering policy analysis on the performance of cohesion policy 2007-2013 2011 / 21 p. : ill

Potential of utilization of renewable energy technologies in Gulf countries

Basha, J. Sadik; Jafary, Tahereh; Vasudevan, Ranjit; **Hussain, Abrar** Sustainability 2021 / art. 10261, 29 p. : ill

<https://doi.org/10.3390/su131810261> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Potential utilization of renewable energy sources and the related problems

Roos, Inge; **Selg, Vello** Estonia in the system of global climate change 1996 / p. 178-189: ill

Predictive analytics beyond time series : predicting series of events extracted from time series data

Mishra, Sambeet; Bordin, Chiara; **Taharaguchi, Kota**; Purkayastha, Adri Wind Energy 2022 / p. 1596-1609

<https://doi.org/10.1002/we.2760> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Professor Alar Konist: kust kohast me lähitulevikus oma elektri välja võlume? [Võrguväljaanne]

Konist, Alar pohjarannik.postimees.ee 2021 ["Professor Alar Konist: kust kohast me lähitulevikus oma elektri välja võlume?"](#)

Professor Alar Konist: meretuuleparkide toetusraha eest tuleks ehitada hoopis uus põlevkivielektrijaam

Konist, Alar Maaleht 2025 / Lk. 12-14 <https://dea.digar.ee/article/maaleht/2025/03/20/15.1>

Professor Ivo Palu: „Kui me ühtegi tuulikut ei ehitata, siis oleme ühel hetkel näljas ja paljas“

Palu, Ivo Maaleht 2025 / lk. 2-4 <https://dea.digar.ee/article/maaleht/2025/01/23/3.1> <https://maaleht.delfi.ee/artikkel/120351125/professor-ivo-palu-kui-me-uhetegi-tuulikut-ei-ehitata-siis-oleme-uhel-hetkel-naljas-ja-paljas>

Professor: ka ehitusmaterjalide süsinikujalajälg tuleb kontrolli all hoida

Anvelt, Kärt Eesti Päevaleht 2021 / Lk. 18 : ill <https://dea.digar.ee/article/eestipaevaleht/2021/03/24/17.6>

Professorid Juri Belikov ja Eduard Petlenkov selgitavad, kuidas Eestit rohelisemaks muuta

goodnews.ee 2023 [Professorid Juri Belikov ja Eduard Petlenkov selgitavad, kuidas Eestit rohelisemaks muuta](#) [Professorid Juri Belikov ja Eduard Petlenkov selgitavad, kuidas Eestit rohelisemaks muuta](#)

Progress in renewable electricity in Northern Europe towards EU 2020 targets

Cross, Sam; Hast, Aira; **Kuhi-Thalfeldt, Reeli**; Syri, Sanna; Streimikiene, Dalia; Denina, Arta Renewable and Sustainable Energy Reviews 2015 / p. 1768 - 1780 <https://doi.org/10.1016/j.rser.2015.07.165> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Projekt "RADAR" - teerajaja Setomaal

Kask, Ülo; Kikas, Martin TEUK XI : Taastuvate energiaallikate uurimine ja kasutamine : üheteistkümnenda konverentsi kogumik : Tartu, Estonia, 2009 2009 / lk. 57-66

Puidust tehtud elektri peidetud väärtus

Soomere, Tarmo Akadeemilisi arutlusi : ilmast ja inimestest 2022 / lk. 212-214 <https://dea.digar.ee/article/postimees/2022/02/05/12.4> https://www.ester.ee/record=b5521198*est

Puidust tehtud elektri peidetud väärtus

Soomere, Tarmo Postimees 2022 / Lk. 8 <https://dea.digar.ee/article/postimees/2022/02/05/12.4>

Puiduta oleks meie kaugküte hoopis teistsugune [Võrguväljaanne]

metsamajandusuudised.ee 2021 ["Puiduta oleks meie kaugküte hoopis teistsugune "](#)

Põhjalik analüüs: kas põlevkivienergeetikal on tulevikku?

rohe.geenius.ee 2023 [Põhjalik analüüs: kas põlevkivienergeetikal on tulevikku?](#)

Põlevkivi annab Eesti keemiatööstusele uued arenguvõimalused [Võrguväljaanne]

postimees.ee 2022

Põlevkivi ja gaas on ajutine, mitte jääv lahendus [Võrguväljaanne]

Joala, Kätlin parnu.postimees.ee 2022 [Põlevkivi ja gaas on ajutine, mitte jääv lahendus](#)

Põlevkivienergeetika ja selle alternatiivid Eestis : akadeemiline loeng 14. detsembril 2000 soojustehnika instituudis Koplis
Õpik, Ilmar Tallinna Tehnikaülikooli aastaraamat 2000 2001 / lk. 269-278 : ill

Põlevkivienergeetika tulevikus

Konist, Alar Maaleht 2023 / Lk. 19 <https://dea.digar.ee/article/maaleht/2023/02/02/19.2> Professor Alar Konist: et saada põlevkivielektrit ka tulevikus, on vaja tehnoloogiapööret

Põlevkivist ei saa puhast, "rohelist" energiat

Valma, Arno Tallinna Tehnikaülikooli aastaraamat 2001 2003 / lk. 348-349 https://artiklid.elnet.ee/record=b1013445*est

Põlevkivist ei saa puhast, "rohelist" energiat

Valma, Arno Äripäev 2001 / 20. dets., lk. 26 https://artiklid.elnet.ee/record=b1620932*est

Põlevkivist tuumaenergiasse: mida lubab meile uus koalitsioonilepe? : arvamus

Okas, Ivo; Hamburg, Arvi Elektriala 2025 / lk. 17-19 : portr, ill https://www.ester.ee/record=b1240496*est

„Põlevkivitöötlemist on lihtsam ja loogilisem arendada, kui sulgeda“

Pihl, Olga; **Pirk, Kalle** Kesknädal 2025 / lk. 4-5 https://www.ester.ee/record=b1716780*est „Põlevkivitöötlemist on lihtsam ja loogilisem arendada, kui sulgeda“, lk. 4 „Põlevkivitöötlemist on lihtsam ja loogilisem arendada, kui sulgeda“, lk. 5

Päikeseenergeetika väljakutse : mis saab päikesepaneelidest elukaare lõpus?

Grossberg-Kuusk, Maarja postimees.ee 2024 [Päikeseenergeetika väljakutse: mis saab päikesepaneelidest elukaare lõpus?](https://www.postimees.ee/3435269/paikesepaneelide-hind-langeb-ja-kasutamine-eestis-kasvab)

Päikesepaneelide hind langeb ja kasutamine kasvab

Olup, Nele-Mai; **Jagomägi, Andri** Postimees 2015 / lk. 5 <https://www.postimees.ee/3435269/paikesepaneelide-hind-langeb-ja-kasutamine-eestis-kasvab>

Pyrite as prospective absorber material for monograin layer solar cell

Kristmann, Katriin; **Altosaar, Mare**; **Raudoja, Jaan**; **Krustok, Jüri**; **Pilvet, Maris**; **Mikli, Valdek**; **Grossberg, Maarja**; **Danilson, Mati**; **Raadik, Taavi** Thin Solid Films 2022 / art. 139068 : ill <https://doi.org/10.1016/j.tsf.2021.139068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quadratic boost A-source impedance network

Siwakoti, Yam P.; **Blaabjerg, Frede**; **Chub, Andrii**; **Vinnikov, Dmitri** ECCE 2016 : IEEE Energy Conversion Congress & Expo : September 18-22, Milwaukee, WI : proceedings 2016 / [6] p. : ill <https://doi.org/10.1109/ECCE.2016.7855374>

Quo vadis, Eesti energeetika?

Vaimann, Toomas Riigikogu Toimetised 2023 / lk. 21-24 <https://rito.riigikogu.ee/nr-47/quo-vadis-eesti-energeetika/> https://www.ester.ee/record=b1361123*est

Rainer Kattel: energiahindade sõltumine börsist ei ole mõistlik ega jätkusuutlik [Võrguväljaanne]

Kattel, Rainer postimees.ee 2022 ["Rainer Kattel: energiahindade sõltumine börsist ei ole mõistlik ega jätkusuutlik"](https://www.postimees.ee/3435269/paikesepaneelide-hind-langeb-ja-kasutamine-eestis-kasvab)

Rainer Kattel: tulevik pole väga roosiline

Kattel, Rainer Äripäev 2022 / Lk. 6 : fot https://www.ester.ee/record=b1071975*est

Ramping behaviour analysis of wind farms

Mishra, Sambeet; **Leinakse, Madis**; **Palu, Ivo**; **Kilter, Jako** 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (IEEEIC / I&CPS Europe), 12-15 June 2018 : conference proceedings 2018 / 5 p.: ill <https://doi.org/10.1109/IEEEIC.2018.8493720>

Readiness of small energy markets and electric power grids to global health crises: Lessons from the COVID-19 pandemic

Carmon, David; **Navon, Aviad**; **Machlev, Ram**; **Belikov, Juri**; **Levron, Yoash** IEEE Access 2020 / art. 9139437, p. 127234–127243 <https://doi.org/10.1109/ACCESS.2020.3008929> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

REHVA nZEB Task Force buildings - renewable energy contribution and open nZEB issues

Kurnitski, Jarek European Heat Pump Association EHPA Expert Workshop on Nearly Zero Energy buildings (nZEB) : May 27, 2015 Brussels 2015

Reinforcement learning based approach for virtual inertia control in microgrids with renewable energy sources

Škiparev, Vjatšeslav; **Belikov, Juri**; **Petlenkov, Eduard** Proceedings of 2020 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 26-28 October, 2020 2020 / p. 1020-1024 <https://doi.org/10.1109/ISGT-Europe47291.2020.9248777>

Reinforcement learning based MIMO controller for virtual inertia control in isolated microgrids

Škiparev, Vjatseslav; Belikov, Juri; Petlenkov, Eduard; Levron, Yoash 2022 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : proceedings 2022 / art. 184786, 5 p. : ill <https://doi.org/10.1109/ISGT-Europe54678.2022.9960447>

Reinforcement learning for optimal renewable energy sources scheduling

Nejad, Hamid Mohammad; **Asefi, Sajjad; Kilter, Jako** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863772>

Relevance of renewable energy ratio indicator in describing nZEB performance

Thalfeldt, Martin; Kurnitski, Jarek; Gräslund, Jonas; Kempe, Per; Verwer, Jeroen CLIMA 2016 - proceedings of the 12th REHVA World Congress. Vol. 6 2016 / [10] p. : ill

Renewable energy opportunities in Estonia

Kask, Ülo; Tiidemann, I. REPROMO Bioenergy Market Place : 13 May 2004, Rome, Italy 2004 / p. ?

Renewable energy potential, sources and economic efficiency

Selg, Vello; Valma, Arno Economics of greenhouse gas limitations : country study series : Estonia 1999 / p. 99-125: ill

Renewables, manufacturing and green growth : energy strategies based on capturing increasing returns

Mathews, John A.; Reinert, Erik S. Futures 2014 / p. 13-22 : ill <https://doi.org/10.1016/j.futures.2014.04.011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Residential energy management system to support increased renewable penetration = Taastuenergiaallikate kasutustihedust toetav energiahaldussüsteem

Shabbir, Noman 2022 <https://doi.org/10.23658/taltech.37/2022> <https://digikogu.taltech.ee/et/Item/2c178a6b-f918-4932-bd1b-48feb7fc7aa> https://www.ester.ee/record=b5503996*est

Responsible sourcing for energy transitions : discussing academic narratives of responsible sourcing through the lens of natural resources justice

Kügerl, Marie-Theres; **Hitch, Michael William;** Gugerell, Katharina Journal of environmental management 2023 / p. 116711, 15 p. : ill <https://doi.org/10.1016/j.jenvman.2022.116711>

Review of extended boost qZSI topologies for single phase applications

Barath, Jayakumar Geetha Nataraj; Soundarajan, Ayyasamy; **Stepenko, Serhii;** Padmanaban, Sanjeevikumar; Prystupa, Anatoliy; Bolotov, Maksym 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 8 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982342>

A review of harmonic detection, suppression, aggregation and estimation techniques

Daniel, Kamran; Kütt, Lauri; Iqbal, Muhammad Naveed; Shabbir, Noman; Raja, Hadi Ashraf; Sardar, Muhammad Usman Applied sciences 2024 / art. 10966 <https://doi.org/10.3390/app142310966> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Riigikogu arutas elektrihinna alandamise võimalusi [Võrguväljaanne]

goodnews.ee 2021 ["Riigikogu arutas elektrihinna alandamise võimalusi"](#)

Riigikontrolli hävitav hinnang: Eestis võib mõne aasta pärast tekkida probleeme elektri varustuskindlusega

Lepik, Piret arileht.delfi.ee 2023 [Riigikontrolli hävitav hinnang: Eestis võib mõne aasta pärast tekkida probleeme elektri varustuskindlusega](#)

Riik võtab kohustuse neljakordistada 2030. aastaks rohekütuste kasutamist = Estonia aims to quadruple use of green fuels by 2030

Voltri, Johannes err.ee 2024 / Lk. 28 [Riik võtab kohustuse neljakordistada 2030. aastaks rohekütuste kasutamist](#) [Estonia aims to quadruple use of green fuels by 2030](#)

Robert Kitt: kohalikud taastuvad ressursid on tulevikukindlad

Kitt, Robert Mente et Manu 2022 / lk. 14-19 : fot https://www.ester.ee/record=b1242496*est

Robust decentralized model predictive load-frequency control design for time-delay renewable power systems

Magdy, Gaber; **Bakeer, Abualkasim Ahmed Ali;** Alhasheem, Mohammed International journal of emerging electric power systems 2021 / p. 617-628 : ill <https://doi.org/10.1515/ijeeps-2021-0109> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robust stability region of PI controllers for an interval time delayed load frequency control

Ghorbani, Majid; Nosrati, Komeil; Tepjakov, Aleksei; Belikov, Juri; Petlenkov, Eduard IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863205>

Rohekonverentsil vallatud ideid jagav teadlane taastuenergia kohta: see on nagu see ahvipärdiku mäng

[Võrguväljaanne]

arileht.delfi.ee 2022 [Rohekonverentsil vallatud ideid jagav teadlane taastuenergia kohta: see on nagu see ahvipärdiku mäng](#)

Roheline tehnoloogia : TalTechi läbimurre vesinikuenergeetikas

Normak, Liisu Kirke Eesti Elu : [Kanada ajaleht] 2025 / lk. 18 : fot

Rohelised energiatehnoloogiad kujundavad kliimaneutraalse tuleviku

arileht.delfi.ee 2023 [Rohelised energiatehnoloogiad kujundavad kliimaneutraalse tuleviku](#)

Roheliste energiatehnoloogiate spetsialiste ootab ees lai tööpõld

delfi.ee 2024 [Roheliste energiatehnoloogiate spetsialiste ootab ees lai tööpõld](#)

Rohepööre tasuks ära teha ka inimtekkelise kliimamuutuseta

Kurnitski, Jarek Postimees 2022 / Lk. 13 https://dea.digar.ee/article/postimees/2022/12/01/13.8_Rohepööre_tasuks_ära_teha_ka_inimtekkelise_kliimamuutuseta

Rohepööre väikeses linnas [Võrguväljaanne]

Paluoja, Silvia pardu.postimees.ee 2022 ["Rohepööre väikeses linnas "](#)

The role of CCUS clusters and hubs in reaching carbon neutrality : case study from the Baltic Sea region

Šogenova, Alla; Šogenov, Kazbulat; Sliampa, Saulius; Sliapiene, Rasa Chemical Engineering Transactions 2023 / p. 169-174
<https://doi.org/10.3303/CET23105029> <https://www.cetjournal.it/cet/23/105/029.pdf>

100% taastuenergiat - kas rikkus või vaesus?

Rosin, Argo Tallinna Tehnikaülikooli aastaraamat 2012 2013 / lk. 26-28

7 soovitus mõistliku elektrisüsteemi ülesehitamiseks

Lehtla, Tõnu postimees.ee 2024 [7 soovitus mõistliku elektrisüsteemi ülesehitamiseks](#)

Selection of the most appropriate regions for wood fuel based cogeneration plants using multicriteria decision analysis methods

Volkova, Anna; Latšov, Eduard; Siirde, Andres International journal of energy 2010 / 2, p. 29-36 : ill
https://www.researchgate.net/publication/267689284_Selection_of_the_most_appropriate_regions_for_wood_fuel_based_cogeneration_plants_using_multi-criteria_decision_analysis_methods

Shipping decarbonization : an overview of the different stern hydrodynamic energy saving devices

Spinelli, Flaminia; Mancini, Simone; Vitiello, Luigi; Niazmand Bilandi, Rasul; De Carlini, Maria Journal of marine science and engineering 2022 / art. 574 <https://doi.org/10.3390/jmse10050574> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Short-term PV energy generation forecasting using deep learning

Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Astapov, Victor; Kilter, Jako Telematique 2022
<https://www.provinciajournal.com/index.php/telematique/article/view/813>

Shungite-derived graphene as a carbon support for bifunctional oxygen electrocatalysts

Kazimova, Nargiz; Ping, Kefeng; Alam, Mahboob; Danilson, Mati; Merisalu, Maido; Aruväli, Jaan; Paiste, Pääm; Käärik, Maike; Mikli, Valdek; Leis, Jaan; Tammeveski, Kaido; Starkov, Pavel; Kongi, Nadežda Journal of catalysis 2021 / p. 178-187
<https://doi.org/10.1016/j.jcat.2021.01.004> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Simulation study of different modulation techniques for three-level quasi-Z-source inverter

Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Husev, Oleksandr; Vinnikov, Dmitri Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the 1st Congress of World Engineers and Riga Polytechnical Institute/RTU Alumni : 11-12 October 2012, Riga, Latvija : [abstracts] 2012 / p. 120 : ill
<https://intapi.sciendo.com/pdf/10.2478/v10314-012-0002-3>

6.5 kV IGBT switch realization possibilities and their feasibility study for high-power applications

Vinnikov, Dmitri; Laugis, Juhan; Strzelecki, Ryszard; Egorov, Mikhail The 4th International Scientific Conference of The Military Technical College [Korby El-Kobbah, Cairo, Egypt] : 27-29 May 2008. Proceedings of the 6th ICEENG Conference : 27-29 May, 2008 2008 / p. EE051 [CD-ROM] https://iceeng.journals.ekb.eg/article_34406.html

Smart Energy System efficiency improvement through combined heat and power production flexibility = Targa energiasüsteemi efektiivsuse parendamine läbi koostootmise paindlikkuse tõstmise

Lepiksaar, Kertu 2024 https://www.ester.ee/record=b5685162*est <https://digikogu.taltech.ee/et/Item/1bf329b0-baf7-4581-866e-fbc147c44d6c>
<https://doi.org/10.23658/taltech.24/2024>

Solutions and active measures for wind power integration

Rosin, Argo; Drovtar, Imre; Kilter, Jako Large Scale Grid Integration of Renewable Energy Sources : Solutions and technologies (2nd Ed.) 2024 / p. 91-138 <https://doi.org/10.1049/PBPO222E>

A sparse minimal-order dynamic model of power networks based on DQ0 signals

Belikov, Juri; Levron, Yoash IEEE transactions on power systems 2018 / p. 1059-1067 : ill

<https://doi.org/10.1109/TPWRS.2017.2702746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

State-of-the-Art Review of Emerging Trends in Renewable Energy Generation Technologies

Tiismus, Hans; Maask, Vahur; Astapov, Victor; Korõtko, Tarmo; Rosin, Argo IEEE Access 2025 / p. 10820 - 10843

<https://doi.org/10.1109/ACCESS.2025.3528640>

Steroidid äri jaoks: energiainformaatika tahab viia Eesti majanduse uuele tõusule

postimees.ee 2023 [Steroidid äri jaoks: energiainformaatika tahab viia Eesti majanduse uuele tõusule](#)

Stiihilise taastuvenergia kohandamine inimeste tehiskeskkonna vajadustele

Janson, Kuno; Kallaste, Ants Tallinna Tehnikaülikooli aastaraamat 2012 2013 / lk. 29-39 : ill

Storage for grid deferral : the case of Israel

Gal, Nurit; Navon, Aviad; Ben Yosef, Gefen; Levron, Yoash; **Belikov, Juri** 2021 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 8-21 October, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISGTEurope52324.2021.9639938>

Suur lugu: Kuum ja pilvitu ilm vähendab märgatavalt päikesepaneelide tootlikkust. Mida paneele ostes tähele panna?

Soopan, Ivar rohe.geenius.ee 2023 [Suur lugu: Kuum ja pilvitu ilm vähendab märgatavalt päikesepaneelide tootlikkust. Mida paneele ostes tähele panna?](#)

Süsiniku kinnipüüdmise võimalused on Eestis olemas. Miks neid siis elektrijaamades ei kasutata?

Laast, Joanna Eesti Päevaleht 2022 / Lk. 18, 19 ["Süsiniku kinnipüüdmise võimalused on Eestis olemas. Miks neid siis elektrijaamades ei kasutata?"](#) ["Süsiniku kinnipüüdmise võimalused on Eestis olemas. Miks neid siis elektrijaamades ei kasutata?"](#)

Synergy of CO2 storage and oil recovery in different geological formations : case study in the Baltic Sea

Šogenov, Kazbulat; Šogenova, Alla; Gei, Davide; Forlin, Edy Energy procedia 2017 / p. 7047-7054 : ill

<https://doi.org/10.1016/j.egypro.2017.03.1846> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Synergy scenario for renewable energy production, CO2 and H2 storage in the Baltic offshore structure

Šogenova, Alla; Šogenov, Kazbulat Baltic Carbon Forum 2023 / p. 20 <https://doi.org/10.21595/bcf.2023.23644>

Taastuvatest energiaallikatest elektri tootmise võimalused Eestis

Rummel, Leo TalveAkadeemia 2009 : uute ideede kohtumispaik : üliõpilaste teadusartiklite konkursi kogumik 2009 / 6 l. : ill

Taastuvenergeetika on maha jäänud : [kokkuvõtte konverentsil kõneldust. TTÜst esinesid Enn Mellikov, Toomas Tiikma, Ülo Kask]

Annuk, Andres; **Mellikov, Enn; Tiikma, Toomas; Kask, Ülo** Maamajandus 2003 / dets., lk. 28-29

https://artiklid.elnet.ee/record=b1044418*est

Taastuvenergia - puhtama turvalisema tuleviku nimel : [kommentaar ka TTÜ teadurilt Rein Oidramilt]

Maltis, Epp; **Oidram, Rein** Postimees 2009 / 9. veebr., Energiavõit, lk. 8

Taastuvenergia tasu kui liikumapanev jõud taastuvate energiaallikate arendamiseks

2010 https://www.ester.ee/record=b2593317*est

Taastuvenergia tehnoloogiate arendamine ning rakendamine sõltumatu energia ja veevarustusega küla näitel

Kitzmann, Harald; Balaš, Anna; Valler, Silja TEUK XI : Taastuvate energiaallikate uurimine ja kasutamine : üheteistkümnenda konverentsi kogumik : Tartu, Estonia, 2009 2009 / lk. 16-21

Taastuvenergia uuel aastatuhandel

Valma, Arno Keskkonnatehnika 2002 / 5, lk. 13-16 https://artiklid.elnet.ee/record=b2053949*est

Taastuvenergia uuel aastatuhandel

Valma, Arno Keskkonnatehnika 2003 / 1, lk. 38-40 https://artiklid.elnet.ee/record=b2054090*est

Taastuvenergia võimalused Eestis ja Saaremaal : [slaidietekanne]

Landsberg, Mart; Agabus, Hannes; Liik, Olev Ühisseminar "Tallinna Tehnikaülikoolilt ettevõtlusele" : 18. jaanuaril 2005 SPA hotellis Meri [Kuressaares : ettekannete mapp] 2005 / 5 l. : ill

Taastuvenergiast mitme kandi pealt

A tabulated sizing method for the early stage design of geothermal energy piles including thermal storage

Ferrantelli, Andrea; Fadejev, Jevgeni; Kurnitski, Jarek Energy and buildings 2020 / art. 110178

<https://doi.org/10.1016/j.enbuild.2020.110178> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Tallinna Tehnikaülikool ning Eesti Jõujaamade ja Kaugkütte Ühing arvutasid välja kaugküttesektori CO2 jalajälje [Võrguväljaanne]

Bioneer.ee 2022 "[Tallinna Tehnikaülikool ning Eesti Jõujaamade ja Kaugkütte Ühing arvutasid välja kaugküttesektori CO2 jalajälje](#)"

Tallinna Tehnikaülikoolis saab nüüd õppida rohelisi energiatehnoloogiasid [Võrguväljaanne]

rohe.geenius.ee 2022 [Tallinna Tehnikaülikoolis saab nüüd õppida rohelisi energiatehnoloogiasid](#)

Tallinnas arutati linnade roheenergeetika tulevikku

Bioneer.ee 2023 <https://bioneer.ee/tallinnas-arutati-linnade-roheenergeetika-tulevikku>

Tallinnasse kerkib moodsaim kliimaneutraalne linnaosa

Anvelt, Kärt Eesti Päevaleht 2021 / Lk. 16-17 : ill <https://dea.digar.ee/article/eestipaevaleht/2021/03/24/17.2>

TalTech ja Elering uuendavad koostööd: lisaks energeetikutele kaasatakse ka IT-teadlased [Võrguväljaanne]

digi.geenius.ee 2022 "[TalTech ja Elering uuendavad koostööd: lisaks energeetikutele kaasatakse ka IT-teadlased](#)"

TalTech professor urges network fee pricing revamp, keeping oil shale

Konist, Alar news.err.ee 2023 [TalTech professor urges network fee pricing revamp, keeping oil shale](#)

TalTech toob päikeselise tuleviku

digi.geenius.ee 2023 [TalTech toob päikeselise tuleviku](#)

TalTech toob päikeselise tuleviku

Ehitaja 2023 / lk. 34-35 : fot https://www.ester.ee/record=b1072123*est https://artiklid.elnet.ee/record=b2904074*est

TalTech Virumaa kolledž loob uue õppekava, et toetada tööstuse arengut

arileht.delfi.ee 2024 [TalTech Virumaa kolledž loob uue õppekava, et toetada tööstuse arengut](#)

TalTechi aasta teadlane Dmitri Vinnikov tegutseb selle nimel, et rohepöörde saaks teha praktiliselt ja mõistlike kuludega

Vinnikov, Dmitri digi.geenius.ee 2023 [TalTechi aasta teadlane Dmitri Vinnikov tegutseb selle nimel, et rohepöörde saaks teha praktiliselt ja mõistlike kuludega](#)

TalTechi energeetikutel valmis kodudes taastuenergia kasutamiseks uudseid lahendusi

Blinov, Andrei; Roasto, Indrek Elektriala 2018 / lk. 30 : fot http://www.ester.ee/record=b1240496*est

TalTechi jõuelektroonikateadlaste artikkel sai maineka tunnustuse

Mente et Manu 2018 / lk. 6 http://www.ester.ee/record=b1242496*est <http://dea.digar.ee/publication/AKmenteetmanu>
https://www.ttu.ee/public/m/mente-et-manu/MM_05_2018/mobile/index.html https://artiklid.elnet.ee/record=b2868853*est

TalTechi päikeseenergia roheprojektiga vähendatakse heitkoguseid ja kasvatatakse taastuenergia mõju kogu maailmas [Võrguväljaanne]

postimees.ee 2022 [TalTechi päikeseenergia roheprojektiga vähendatakse heitkoguseid ja kasvatatakse taastuenergia mõju kogu maailmas](#)

TalTechi teadlased töötasid välja avatud platvormi energiavoogude juhtimiseks

digi.geenius.ee 2024 [TalTechi teadlased töötasid välja avatud platvormi energiavoogude juhtimiseks](#)

TalTechi teadlased töötasid välja avatud platvormi energiavoogude juhtimiseks

Korõtko, Tarmo Mente et Manu 2023 / lk. 26-27 : fot

Tarmo Soomere: julgete lahenduste kõrval viib maailma edasi vajadus midagi teha

Soomere, Tarmo Director. Inseneeria 2020 / lk. 64-69 : fot http://www.ester.ee/record=b2336521*est <https://director.ee/2020/05/01/tarmo-soomere-julgete-lahenduste-korval-viib-maailma-edasi-vajadus-midagi-teha/>

Tarmo Soomere: puidust tehtud elektri peidetud väärtus [Võrguväljaanne]

Soomere, Tarmo postimees.ee 2022 "[Tarmo Soomere: puidust tehtud elektri peidetud väärtus](#)"

Tarmo Soomere: tuleviku võti on elektriiaam minu aias

Soomere, Tarmo Postimees 2020 / fot <https://arvamus.postimees.ee/7073454/tarmo-soomere-tuleviku-voti-on-elektriiaam-minu-aias>

Teaching sustainable energetics

Meissner, Dieter; Burk, Peeter; Koppel, Ilmar; Lust, Enn; **Mellikov, Enn**; **Õpik, Andres** International Conference On Renewable Energy (INCORE 2016) : book of programme and abstract 2016 / p. 13

Teadlased aitavad töösturitel leida võimalusi ringmajanduseks

Alver, Anne-Mari Tööstus : [ajalehe Eesti Päevaleht lisa] 2023 / Lk. 19-20 https://www.ester.ee/record=b1072079*est

Teadur: geopolitiline olukord on läinud nii keeruliseks

Hints, Rutt delfi.ee 2025 <https://arileht.delfi.ee/artikkel/120367274/teadur-geopolitiline-olukord-on-lainud-nii-keeruliseks>

Teadurid tegutsevad: energiakavasid saab peagi luua suurema vaevata

Hallik, Liina ohtuleht.ee 2023 [Teadurid tegutsevad: energiakavasid saab peagi luua suurema vaevata](#)

Teaduspreemia tehnikateaduste alal uurimuste tsükli "Uudsed alalispingemuundurid taastuenergeetikas" eest : Dimitri Vinnikov, Tanel Jalakas, Indrek Roasto

Vinnikov, Dmitri; **Jalakas, Tanel**; **Roasto, Indrek** Eesti Vabariigi teaduspreemiad 2014 2014 / lk. 64-74 : fot., ill

Techno-economic analysis of hydrogen buffers for distributed energy systems

Andrijanoviš, Anna 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 96-100 : ill

Teistsuguse energia otsinguil : [22.-24. nov. toimunud Säästva Arengu Klubi alternatiiv-energeetika õppe-ekskursioonist]

Hannolainen, Aivar Mente et Manu 2002 / 21. dets., lk. 4 : fot https://www.ester.ee/record=b1242496*est

Ten questions on tools and methods for positive energy districts

Natanian, Jonathan; Guarino, Francesco; Manapragada, Naga; Magyari, Abel; Naboni, Emanuele; **De Luca, Francesco**; Cellura, Salvatore; Brunetti, Alberto; Reith, Andras Building and environment 2024 / art. 111429 <https://doi.org/10.1016/j.buildenv.2024.111429>

The analysis of biodegradable waste as renewable resource for alternative energy production in Estonia

Blonskaja, Viktoria Ekologija 2014 / p. 27-37 : ill <https://doi.org/10.6001/ekologija.v60i2.2912> [Journal metrics at Scopus](#) [Article at Scopus](#)

The impact of alternative heat supply options on CO2 emission and district heating system

Mašatin, Vladislav; **Link, Siim**; **Siirde, Andres** Chemical engineering transactions 2014 / p. 1105-1110 : ill <https://doi.org/10.3303/CET1439185> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

The nexus of energy for free and world society

International journal of sustainable energy development 2019 / p. 384-391 : ill <https://doi.org/10.20533/ijsed.2046.3707.2019.0046>

The nexus of energy for free and world society

Wittmann, Veronika; **Meissner, Dieter** Proceedings of 2018 6th International Renewable and Sustainable Energy Conference (IRSEC) 2019 / 6 p. : ill <https://doi.org/10.1109/IRSEC.2018.8702953>

The preliminary research of sea water district heating and cooling for Tallinn coastal area

Hani, Allan; **Kõiv, Teet-Andrus** Smart grid and renewable energy 2012 / p. 246-252 : ill https://www.scirp.org/pdf/sgre20120300011_19171139.pdf

The use and research in renewables in Estonia

Mellikov, Enn Abstracts of the Conference "Renewable Energy Technologies in Cold Climates '98", Montreal, Canada 1998 / p. 14

The use and research of renewables in Estonia

Mellikov, Enn Renewable Energy Technologies in Cold Climates '98 : an International Conference : incorporating the 24th Annual Conference of the Solar Energy Society of Canada Inc. (SESCI), 4-6 May 1998, Montreal, Quebec, Canada : proceedings 1998 / p. 211-215: ill

Three-level T-type qZ source inverter as grid-following unit for distributed energy resources

Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; **Husev, Oleksandr**; Barrero-Gonzalez, Fermin; Llor, Ana M.; Fernao Pires, Vitor IEEE journal of emerging and selected topics in power electronics 2022 / p. 7772-7785 <https://doi.org/10.1109/JESTPE.2022.3193258> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

3L-T-type qZSI as grid-forming unit in AC microgrid

Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; **Husev, Oleksandr**; Pires, Victor; Milanés-Montero, Maria Isabel; Gonzalez-Romera, Eva IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / code 184962 <https://doi.org/10.1109/IECON49645.2022.9968571> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Three-phase four wire high-frequency link converter for residential DC grids

Emiliani, Pietro; Blinov, Andrei; de Carne, Giovanni; Arena, Gabriele; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227416>

Three-port flyback converter for photovoltaic module integration in bipolar DC microgrids

Chub, Andrii; Zinchenko, Denys; Vinnikov, Dmitri; Blinov, Andrei 2020 IEEE International Conference on Industrial Technology, Buenos Aires Institute of Technology (ITBA) Buenos Aires, Argentina, 26-28 February, 2020 : proceedings 2020 / p. 909-914 <https://doi.org/10.1109/ICIT45562.2020.9067237> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Toomas Vaimann: energeetikasektori omapäraks on pikaajalisus

Vaimann, Toomas err.ee 2023 [Toomas Vaimann: energeetikasektori omapäraks on pikaajalisus](#)

Topological review of quasi-switched boost inverters

Barath, Jayakumar Geetha Nataraj; Soundarajan, Ayyasamy; Stepenko, Serhii; **Husev, Oleksandr; Vinnikov, Dmitri;** Nguyen, Minh-Khai Electronics 2021 / art. 1485 <https://doi.org/10.3390/electronics10121485> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TTÜ energeetikateadlaste osalusel ilmus kõrgetasemeline rahvusvaheline monograafia taastuvenergeetikast : ["Large scale grid integration of renewable energy sources"]

Mente et Manu 2017 / lk. 8 https://www.ttu.ee/public/m/mente-et-manu/MM_03_2017/mobile/index.html#p=1
https://artiklid.elnet.ee/record=b2820630*est

TTÜ energeetikud arendavad Eesti esimest energiasalvestit [Võrguväljaanne]

Lauri, Vahur novaator.err.ee 2019 / video [TTÜ energeetikud arendavad Eesti esimest energiasalvestit](#)

TTÜ näitab Eesti Energiale tulevikku

Reimer, Andres; **Aaviksoo, Jaak;** Sutter, Hando Postimees 2017 / lk. 12 <https://majandus.postimees.ee/4285007/ttu-naitab-eesti-energiele-alternatiivset-tulevikku>

TTÜ professor soovitas muuta elektri võrgutasude hinnastamist ja jätkata põlevkivienergeetikaga

Ots, Mait err.ee 2023 [TTÜ professor soovitas muuta elektri võrgutasude hinnastamist ja jätkata põlevkivienergeetikaga](#) [Energeetikaprofessor Alar Konist: põlevkivi ja põlevkivitehnoloogiat võiksime ka tulevikus kasutada](#)

TTÜ professor: Riik ei peaks elektri tootmisel välistama põlevkivi [Võrguväljaanne]

Konist, Alar rohe.geenius.ee 2022 [TTÜ professor: Riik ei peaks elektri tootmisel välistama põlevkivi](#)

Tudengid päikeseelektrijaamas töö

TööstusEST 2024 / lk. 42 : fot https://www.ester.ee/record=b4481084*est

Tulevasi elektriinseneri ootab ees avar tööpõld

Alvela, Ain TööstusEST 2023 / lk. 26-27 https://www.ester.ee/record=b4481084*est

Tuleviku tegijaks Saaremaal!

Järva Teataja 2023 / lk. 6 [Tuleviku tegijaks Saaremaal!](#) [Tuleviku tegijaks Saaremaal!](#)

Tuleviku võti on elektrijaam minu aias

Soomere, Tarmo Akadeemilisi arutlusi : ilmast ja inimestest 2022 / lk. 203-207 https://www.ester.ee/record=b5521198*est
<https://arvamus.postimees.ee/7073454/tarmo-soomere-tuleviku-voti-on-elektrijaam-minu-aias>

Tulevikukindel karjäär kestlikus energeetikas – 60 miljonit uut töökohta ja üks neist võib olla sinu

postimees.ee 2025 <https://www.postimees.ee/8231243/tulevikukindel-karjaar-kestlikus-energeetikas-60-miljonit-uu-tookohta-ja-uks-neist-voib-olla-sinu>

Tulevikukütused : mis annab energiat fossiilkütuste lõppedes?

Niidu, Allan Mente et Manu 2020 / lk. 38-41 : ill https://www.ttu.ee/public/m/mente-et-manu/MM_01_2020/mobile/index.html
https://www.ester.ee/record=b1242496*est

Tulevikus võib väikesaarte elektrivarustus tulla merelainetest [Võrguväljaanne]

Hellerma, Juhan novaator.err.ee 2022 ["Tulevikus võib väikesaarte elektrivarustus tulla merelainetest "](#)

A tutorial on dynamics and control of power systems with distributed and renewable energy sources based on the DQ0 transformation

Levron, Yoash; **Belikov, Juri;** Baimel, Dmitry Applied sciences 2018 / art. 1661, 48 p. : ill <https://doi.org/10.3390/app8091661> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tuumajaamad vs. tuulikud

Hanson, Martin Eesti Ekspress 2023 / Lk. 6

Täiendavate (alternatiivsete) energiaallikate kasutuselevõtu perspektiividest Eestis

Levald, Heino Päevaleht 1990 / 3. apr

Uhtna põhikoolis kasvatatakse keskkonnateadlikke noori

Kaiva, K. Virumaa Teataja 2024 / Lk. 8 [Uhtna põhikoolis kasvatatakse keskkonnateadlikke noori](#)

Unlocking bifunctional electrocatalytic performance of Co-MOF-Derived catalysts for ORR and OER

Yusibova, Gulnara; Kongi, Nadežda; Karpichev, Yevgen 244th ECS Meeting, Gothenburg, Sweden, October 8-12, 2023 2023 / p. I01E-2036 <https://ecs.confex.com/ecs/244/meetingapp.cgi/Paper/180269>

Use of value stream mapping for evaluation of load conservation and peak clipping possibilities [Electronic resource]

Melsas, Raivo; Rosin, Argo 2017 IEEE International Conference on Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) : 6-9 June, 2017, Milan, Italy : conference proceedings 2017 / [6] p. : ill. [DVD] <https://doi.org/10.1109/EEEIC.2017.7977549>

A user interface tool for ramping behavior analysis of renewable energy

Mishra, Sambeet; Palu, Ivo PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 175-178 : ill <https://doi.org/10.1109/PQ.2016.7724109>

Using DQ0 signals based on the central angle reference frame to Model the dynamics of large-scale power systems

Zargari, Noa; Ofir, Ron; Levron, Yoash; Belikov, Juri Proceedings of 2020 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 26-28 October, 2020 2020 / p. 1099-1103 <https://doi.org/10.1109/ISGT-Europe47291.2020.9248812>

Utilitas suurendas roheline elektri toodangut aastaga viiendiku võrra

arileht.delfi.ee 2023 [Utilitas suurendas roheline elektri toodangut aastaga viiendiku võrra](#)

Uued põnevad erialad : kunstiteraapia ja taastuenergeetika : [uutest erialadest Eesti ülikoolides, sh ka TTÜ-s]

Kaasik, Karit Eesti Päevaleht 2007 / 28. juuli, lk. 6 : fot <https://epi.delfi.ee/artikkel/51095495/uued-ponevad-erialad-kunstiteraapia-ja-taastuenergeetika>

Uuring pakub meetodika Eesti võrkudest halva elektri tõrjumiseks [Võrguväljaanne]

Oidermaa, Jaan-Juhan novaator.err.ee 2022 ["Uuring pakub meetodika Eesti võrkudest halva elektri tõrjumiseks"](#)

Valmis uurimistöö Eesti kaugküttesektori CO2 jalajäljest [Võrguväljaanne]

keskkonnatehnika.ee 2021 ["Valmis uurimistöö Eesti kaugküttesektori CO2 jalajäljest"](#)

Wave energy extracting near Siri Island by using new energy converter type selection coefficient

Salimi, Fouad; Barzandeh, Amirhossein; Eshghi, Naghmeh International Journal of Energy and Water Resources 2025 <https://doi.org/10.1007/s42108-025-00354-y>

Veejõud - alternatiivenergia oluline allikas : [konverents Kaunases]

Velner, Harald-Adam Keskkonnatehnika 2001 / 5, lk. 23 : fot

Veel üks roheenergia allikas : kuidas toota elektrit merelainetest?

digi.geenius.ee 2022 [Veel üks roheenergia allikas : kuidas toota elektrit merelainetest?](#)

Versatile power electronic building block for residential DC microgrids

Vinnikov, Dmitri; Chub, Andrii; Kosenko, Roman; Liivik, Elizaveta 2018 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2018) : Amalfi, Italy, 20-22 June 2018 2018 / p. 735-741 : ill <https://doi.org/10.1109/SPEEDAM.2018.8445317>

ViDRIK hakkab toetama Virumaa digi- ja rohepööret [Võrguväljaanne]

Bioneer.ee 2022 ["ViDRIK hakkab toetama Virumaa digi- ja rohepööret"](#)

VIDRIK paneb Virumaal digioskused idanema

digi.geenius.ee 2023 [VIDRIK paneb Virumaal digioskused idanema](#)

Wind and Solar energy optimal integration

Ulm, Lauri; Palu, Ivo; Mishra, Sambeet 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p <https://doi.org/10.1109/RTUCON48111.2019.8982369>

Virtual inertia control methods in islanded microgrids

Škiparev, Vjatšeslav; Machlev, Ram; Chowdhury, Nilanjan Roy; Levron, Yoash; **Petlenkov, Eduard**; Belikov, Juri Energies 2021 / art. 1562, 20 p. : ill <https://doi.org/10.3390/en14061562> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Virtual inertia control of isolated microgrids using an NN-based VFOPID controller

Škiparev, Vjatšeslav; Nosrati, Komeil; Tepljakov, Aleksei; **Petlenkov, Eduard**; Levron, Yoash; **Belikov, Juri**; Guerrero, Joseph M. IEEE Transactions on sustainable energy 2023 / p. 1558-1568 <https://doi.org/10.1109/TSTE.2023.3237922> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

World Energy Council Estonia annual conference on ERR News

news.err.ee 2023 [World Energy Council Estonia annual conference on ERR News](#)

Väljakutsed energeetikas : [avatud platvorm energiavoogude juhtimiseks]

Korõtko, Tarmo Tehnikamaailm 2024 / lk. 74-75 : fot https://www.ester.ee/record=b1073050*est

Õppekava "Rohelised energiatehnoloogiad"

Mente et Manu 2022 / lk. 10 https://www.ester.ee/record=b1242496*est

Ääremärkusi taastuenergia ja jätkusuutlikkuse teemadel

Kiili, Jaanus Noorteadlased taastuenergiast 2007 / lk. 5-7

Ühe Võrumaa teadlase lugu - Tsolgo algkoolist Tallinna tehnikaülikooli teaduriks

Wõrumaa Teataja 2024 / lk. 6 [Ühe Võrumaa teadlase lugu - Tsolgo algkoolist Tallinna tehnikaülikooli teaduriks](https://dea.digar.ee/article/vorumaateataja/2024/10/24/7.8)
<https://dea.digar.ee/article/vorumaateataja/2024/10/24/7.8>

Ühistusse koondumine aitab kogukonna energiakulusid vähendada [Võrguväljaanne]

Alvela, Ain novaator.err.ee 2022 [Ühistusse koondumine aitab kogukonna energiakulusid vähendada](#)

Üks tehisintellekti vastus kulutab Google'ist 10 korda rohkem energiat – AI-buum viib Eesti taastuenergia vajaduse uuele tasemele

rohe.geenius.ee 2024 [Üks tehisintellekti vastus kulutab Google'ist 10 korda rohkem energiat – AI-buum viib Eesti taastuenergia vajaduse uuele tasemele](#)

Ükski erakond kalli elektri probleemile lahendusi ei paku

Konist, Alar Postimees 2023 / Lk. 14 [Ükski erakond kalli elektri probleemile lahendusi ei paku](https://dea.digar.ee/article/postimees/2023/01/17/14.12)
<https://dea.digar.ee/article/postimees/2023/01/17/14.12>

Ветры перемен в энергетике: за стоимость тепла переживать не стоит

Krupenski, Igor dv.ee 2025 [Ветры перемен в энергетике: за стоимость тепла переживать не стоит](#)

Водород вместо нефти: эстонские вузы будут готовить сотни тысяч специалистов по всей Европе [Online resource]

rus.postimees.ee 2022 ["Водород вместо нефти: эстонские вузы будут готовить сотни тысяч специалистов по всей Европе "](#)

Геополитическая ситуация настолько усложнилась, что нам необходим новый подход к экономике замкнутого цикла

Hints, Rutt rus.delfi.ee 2025 <https://rus.delfi.ee/statja/120367229/geopoliticheskaya-situaciya-nastolko-uslozhnilas-chto-nam-neobhodim-novyy-podhod-k-ekonomike-zamknutogo-cikla>

Какой пакет электроэнергии выбирать, чтобы играть в потребительскую игру правильно ?

Puura, Erik rus.postimees.ee 2023 [Какой пакет электроэнергии выбирать, чтобы играть в потребительскую игру правильно ?](#)

Конист: Эстонии следует прежде всего полагаться на собственные ресурсы в развитии энергетики

Konist, Alar rus.err.ee 2025 [Конист: Эстонии следует прежде всего полагаться на собственные ресурсы в развитии энергетики](#)

Ни одна партия не предлагает решения проблемы дорогого электричества

Konist, Alar rus.postimees.ee 2023 [Ни одна партия не предлагает решения проблемы дорогого электричества](#)

«Переработку сланца логичнее развивать, чем закрывать»

Pihl, Olga; **Pirk, Kalle** Kesknädal 2025 / с. 4-5 [«Переработку сланца логичнее развивать, чем закрывать», с. 4](#) [«Переработку сланца логичнее развивать, чем закрывать», с. 5](#)

Планируемые морские ветропарки превышают возможности энергосистемы

Klementi, Joakim rus.err.ee 2023 [Планируемые морские ветропарки превышают возможности энергосистемы](#)

Профессор: в Эстонии есть все предпосылки для развития сланцевой энергетики

stena.ee 2023 [Профессор: в Эстонии есть все предпосылки для развития сланцевой энергетики. Парламент в качестве вопроса государственной важности обсудил плюсы и минусы "зеленого поворота"](#)

Профессор: мы слишком мало инвестировали в энергетику [Online resource]

Konist, Alar Stolitsa.ee 2022 ["Профессор: мы слишком мало инвестировали в энергетику"](#)

Технико-экономическое обоснование автономной системы электроснабжения на примере Псковской области

Bandurin, Ivan; Shchelikalin, Vyacheslav; Smirnova, Anastasia; **Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas** Вестник Псковского государственного университета. Технические науки 2016 / с. 100-109

Эксперт: отключение от российской сети? Никто даже не заметит

Tavgen, J. dv.ee 2024 [Эксперт: отключение от российской сети? Никто даже не заметит](#)