

**Analysis of off-grid power supply for sparsely populated areas**

**Vaimann, Toomas; Janson, Kuno; Bolgov, Viktor; Kallaste, Ants** 14th International Scientific Conference Electric Power Engineering 2013 : EPE 2013 : [proceedings] 2013 / p. 175-179 : ill

**Case study of supplementary PMSM for low-speed wind turbine**

Poliakov, Nikolai; Vorobev, Konstantin; **Demidova, Galina; Rassõlkin, Anton**; Ramensky, Dmitry 2021 XVIII International Scientific Technical Conference Alternating Current Electric Drives (ACED) : proceedings 2021 / 5 p. : ill  
<https://doi.org/10.1109/ACED50605.2021.9462253>

**The challenges of a stakeholder dialogue : the case of inexhaustible energy for exhaustible consumption**

**Ojasoo, Merle; Roostalu, Lea; Leppiman, Anu; Riivits-Arkonsuo, Ivi** Evolving business models in ecosystem of disruptive technologies and social media 2019 / p. 89-95 : ill

**Coastal area with or without wind turbines: a contingent valuation study in Estonia**

**Ehrlich, Üllas; Mürsepp, Margot** Mathematical Modelling and Simulation in Applied Sciences : proceedings of the 3rd International Conference on Energy, Environment, Devices, Systems, Communications, Computers (INEEE'12) : Rovaniemi, Finland, April 18-20, 2012 2012 / p. 179-183 : ill

**Comparative analysis of wind generator energy efficiency based on machine design**

**Kallaste, Ants; Vaimann, Toomas; Kilk, Aleksander; Belahcen, Anouar** 2014 55th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings 2014 / p. 9-12 : ill

**Components selection of local power supply system for sparsely populated areas**

**Kallaste, Ants; Vaimann, Toomas; Janson, Kuno; Bolgov, Viktor** 14th International Scientific Conference Electric Power Engineering 2013 : EPE 2013 : [proceedings] 2013 / p. 181-186 : ill

**Cylindrical blades Magnus wind turbine optimization and control system**

Alassaf, Omar; Lukin, Aleksandr; **Demidova, Galina**; Kozlov, Gleb; Volkhontsev, Andrey; Poliakov, Nikolai 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / p. 1-5  
<https://doi.org/10.1109/IWED54598.2022.9722582>

**Decentralized privacy-preserving operation of multi-area integrated electricity and natural gas systems with renewable energy resources**

Qi, Feng; Shahidehpour, Mohammad; **Wen, Fushuan**; Li, Zhiyi; He, Yubin; Yan, Mingyu IEEE Transactions on sustainable energy 2020 / p. 1785-1796 <https://doi.org/10.1109/TSTE.2019.2940624>

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

**Barzehkar, Mojtaba; Parnell, Kevin Ellis**; Mobarghaee Dinan, Naghme; 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](#)

**Design and prototyping of directly driven outer rotor permanent magnet generator for small scale wind turbines [Online resource]**

**Vaimann, Toomas; Kudrjavitsev, Oleg; Kilk, Aleksander; Kallaste, Ants; Rassõlkin, Anton** Advances in electrical and electronic engineering 2018 / p. 271-278 : ill <https://doi.org/10.15598/aeer.v16i3.2698> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Evaluation of control solution for grid inverter of low power wind turbine for implementation with inexpensive hardware**

Galkin, Ilja; **Zakis, Janis** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 297-302 : ill

**Experimental prototype of high-efficiency wind turbine based on Magnus effect**

**Lukin, Aleksandr; Demidova, Galina; Lukichev, Dmitry; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar** 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 6 p <https://doi.org/10.1109/IWED48848.2020.9069565>

**Feasibility study of a local power supply system for sparsely populated areas in Estonia**

**Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Märss, Maido** Agronomy research 2016 / p. 1720-1729 : ill  
[http://www.ester.ee/record=b1787401\\*est](http://www.ester.ee/record=b1787401*est) [Journal metrics at Scopus](#) [Article at Scopus](#)

**Forecasting of wind speed and power through FFNN and CFNN using HPSOBA and MHP SO-BAACs techniques**

Ellahi, Manzoor; Usman, Muhammad Rehan; Arif, Waqas; Usman, Hafiz Fuad; Khan, Waheed A.; Satrya, Gandeve Bayu; **Daniel, Kamran; Shabbir, Noman** Electronics 2022 / art. 4193 <https://doi.org/10.3390/electronics11244193> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Impact of wind parks on the efficiency of thermal power plants [Electronic resource]**

**Astapov, Victor; Šuvalova, Jelena; Vaimann, Toomas; Kallaste, Ants; Belahcen, Anouar** Proceedings of the 8th International

**Impacts of large scale wind integration on the Baltic region's thermal power plant economics and electricity market in 2025 [Electronic resource]**

**Drovtar, Imre;** Landsberg, Mart; **Kilter, Jako; Rosin, Argo** SPEEDAM 2012 : Sorrento (Italy) - June 20-22, 2012 : 21st edition of the International Symposium on Power Electronics, Electrical drives, Automation and Motion 2012 / p. 684-689 : ill [CD-ROM]  
[https://www.researchgate.net/publication/261155311\\_Impacts\\_of\\_large\\_scale\\_wind\\_integration\\_on\\_the\\_baltic\\_region's\\_thermal\\_power\\_plant\\_economics\\_and\\_electricity\\_market\\_in\\_2025](https://www.researchgate.net/publication/261155311_Impacts_of_large_scale_wind_integration_on_the_baltic_region's_thermal_power_plant_economics_and_electricity_market_in_2025)

**Increasing renewable fraction by smoothing consumer power charts in grid-connected wind-solar hybrid systems**

**Annuk, Andres; Tammaja, Heiki** Oil shale 2013 / p. 257-267 : ill [https://artiklid.elnet.ee/record=b2631746\\*est](https://artiklid.elnet.ee/record=b2631746*est)  
<https://doi.org/10.3176/oil.2013.2S.06> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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 2021 2021 / 11 p.: ill <https://ssrn.com/abstract=3812387>

**Low frequency acoustic radiation of cylindrical shells in water**

**Van de Loock, Julien; Decultot, Dominique; Klauson, Aleksander** Proceedings of Meetings on Acoustics 2012 / art. 070019, p. 1-9 : ill <http://dx.doi.org/10.1121/1.4767967>

**Modelling of consumption shares for small wind energy prosumers**

**Annuk, Andres; Yaïci, 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 solar-wind hybrid renewable energy system architectures**

**Mishra, Sambeet; Koduvere, Hardi; Palu, Ivo; Kuhi-Thalfeldt, Reeli** 2016 IEEE International Energy Conference (ENERGYCON) : [Leuven, Belgium, 4-8 April 2016] 2016 / [6] p. : ill <https://doi.org/10.1109/ENERGYCON.2016.7513942>

**MPPT algorithms for wind turbines : review and comparison**

**Lukin, Aleksandr; Demidova, Galina;** Alassaf, Omar; Lukichev, Dmitry; **Rassölkin, Anton; Vaimann, Toomas** 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / p. 1-6  
<https://doi.org/10.1109/IWED54598.2022.9722597>

**New isolated interface converter for grid-connected PMSG based wind turbines**

**Bisenieks, Lauris; Vinnikov, Dmitri;** Galkin, Ilja 2011 10th International Conference on Environment and Electrical Engineering (EEEIC), 8-11 May 2011, Rome, Italy : conference proceedings 2011 / p. 869-872 : ill <https://www.semanticscholar.org/paper/New-isolated-interface-converter-for-grid-connected-Bisenieks-Vinnikov/cac34f4cd26e3b2bb3306ab7c542bf6fc75dd48b>

**New isolated interface converter for PMSG based variable speed wind turbines**

**Vinnikov, Dmitri;** Bisenieks, Lauris; Galkin, Ilja Przegląd elektrotechniczny = Electrical review 2012 / p. 75-80 : ill  
[https://alephfiles.rtu.lv/TUA01/000042552\\_e.pdf](https://alephfiles.rtu.lv/TUA01/000042552_e.pdf)

**Optimization of the inverter size for grid-connected residential wind energy systems with peak shaving**

**Allik, Alo; Märss, Maido;** Uiga, Jaanus; **Annuk, Andres** Renewable energy 2016 / p. 1116-1125 : ill  
<https://doi.org/10.1016/j.renene.2016.08.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Possible manufacturing tolerance faults in design and construction of low speed slotless permanent magnet generator**

**Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar** 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 4 2014 / p. 3073-3082 : 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](#)

**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](#)

**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 (EEEIC / I&CPS Europe), 12-15 June 2018 : conference proceedings 2018 / 5 p.: ill <https://doi.org/10.1109/EEEIC.2018.8493720>

**Simulation of wind turbine vibrations**

**Andriushchenko, Ekaterina; Kallaste, Ants; Vaimann, Toomas; Rassölkin, Anton; Meshkov, Aleksandr; Heidari,**

**Hamidreza; Demidova, Galina** 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 4 p <https://doi.org/10.1109/IWED48848.2020.9069567>

#### **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>

#### **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>

#### **Wind energy forecasting using recurrent neural networks**

**Shabbir, Noman; Kütt, Lauri; Jawad, Muhammad; Ahmadiyahangar, Roya; Iqbal, Muhammad Naveed; Rosin, Argo** 2019 Big Data, Knowledge and Control Systems Engineering (BdKCSE) 2019 / 5 p. : ill <https://doi.org/10.1109/BdKCSE48644.2019.9010593>

#### **Обзор низкоскоростных генераторов с постоянными магнитами для ветряных установок**

**Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas; Savrajev, Igor** Вестник Псковского государственного университета. Технические науки 2016 / с. 58-68