

### **About possibilities to integrate wind farms into Estonian power system**

**Liik, Olev; Landsberg, Mart; Oidram, Rein** Proceedings of Fourth International Workshop on Large-Scale Integration of Wind Power and Transmission Networks for Offshore Wind Farms, 20-21 October, 2003, Billund, Denmark. Session 6a. 3 2003 / [10] p

### **Advanced condition monitoring method for high voltage overhead lines based on visual inspection**

**Manninen, Henri; Kilter, Jako; Landsberg, Mart** 2018 IEEE Power & Energy Society General Meeting (PESGM 2018) : Portland, Oregon, USA, 5-10 August 2018 / p. 2321-2325 : ill <https://doi.org/10.1109/PESGM.2018.8586498>

### **Advanced methodology for estimation of value of lost load (VOLL) using equipment specific health indices**

**Manninen, Henri; Kilter, Jako; Landsberg, Mart** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p <https://doi.org/10.1109/PQ.2019.8818245>

### **Analysis of possibilities to integrate wind turbines into Estonian power system**

**Liik, Olev; Landsberg, Mart; Oidram, Rein** Scientific proceedings of Riga Technical University. 4. [series], Power and electrical engineering 2003 / p. 196-203

### **Capacitor coupled voltage transformer defect identification in the presence of tap changer**

**Asefi, Sajjad; Leinakse, Madis; Kilter, Jako; Landsberg, Mart** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p <https://doi.org/10.1109/isgteurope56780.2023.10408138>

### **Capacitor coupled voltage transformer inaccuracy effect on circuit breaker operation**

**Asefi, Sajjad; Andreesen, Guido; Kilter, Jako; Landsberg, Mart** 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p <https://doi.org/10.1109/EPE58302.2023.10149279>

### **CO2 emission reduction options for Estonia**

**Landsberg, Mart; Agabus, Hannes; Liik, Olev** 3rd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 16-21, 2006 2006 / p. 112-119 : ill

### **CO2 emission reduction options for Estonia**

**Landsberg, Mart; Agabus, Hannes** Tarptautines konferencijas Elektros ir valdymo technologijos - 2006 : pranešimu medžiaga = Proceedings of International Conference Electrical and Control Technologies - 2006 2006 / p. 405-410 : ill

### **Co-operation of Estonia's oil shale based power system with wind turbines**

**Liik, Olev; Oidram, Rein; Keel, Matti; Ojangu, Jaanus; Landsberg, Mart; Dorovatovski, Nikolai** Oil shale 2005 / 2S, p. 127-142 : ill [https://artiklid.elnet.ee/record=b2346707\\*est](https://artiklid.elnet.ee/record=b2346707*est)

### **Co-operation of wind generators with fossil power plants : problems and gains**

**Liik, Olev; Oidram, Rein; Keel, Matti; Landsberg, Mart** Proc. of Nord Wind Power Conference : Cothenburg, 2004 2004 / [6] p

### **Cost-efficient improvement of power system's reliability within limited funds**

**Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 7 p <https://doi.org/10.1109/RTUCON62997.2024.10830808>

### **Data-driven asset management and condition assessment methodology for transmission overhead lines =**

**Ülekandevõrgu õhuliinide andmepõhine varahalduse ja seisundi hindamise metoodika**

**Manninen, Henri** 2022 <https://doi.org/10.23658/taltech.4/2022> <https://digikogu.taltech.ee/et/Item/b0c60eaf-b740-4df5-bead-0dd793d5e6c8> [https://www.ester.ee/record=b5491207\\*est](https://www.ester.ee/record=b5491207*est)

### **Determining cost-efficient sequence of condition inspection based on estimated condition data**

**Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863436>

### **Development of a Substation Risk-Based Asset Management Decision-Making Process in the Case of Insufficient Information =**

**Alajaama riskipõhise varahalduse otsustusprotsessi arendamine ebapiisava sisendteabe tingimustes** **Andreesen, Guido** 2025 [https://www.ester.ee/record=b5754736\\*est](https://www.ester.ee/record=b5754736*est) <https://digikogu.taltech.ee/et/Item/49e349b9-c62b-4a9e-af14-5c8408e54028> <https://doi.org/10.23658/taltech.52/2025>

### **Economic impact of renewable electricity generation on the Baltic region's electricity market**

**Drovtar, Imre; Landsberg, Mart; Kilter, Jako; Rosin, Argo** Przegląd elektrotechniczny = Electrical review 2012 / p. 161-165 : ill [https://www.academia.edu/80501050/Economic\\_impact\\_of\\_renewable\\_electricity\\_generation\\_on\\_the\\_Baltic\\_regions\\_electricity\\_market](https://www.academia.edu/80501050/Economic_impact_of_renewable_electricity_generation_on_the_Baltic_regions_electricity_market)

### **Economics of renewable generation in Estonian electricity market**

**Knõš, Izabella; Landsberg, Mart; Valtin, Juhan** 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. 103-109 : ill

### **Eesti elektri hind kujuneb tarbimise, mitte pelgalt tootmise järgi**

**Vaaks, Eveliis** Trialoog 2025 <https://trialoog.taltech.ee/eesti-elektrihind-kujuneb-tarbimise-mitte-pelgalt-tootmise-jargi/>

### **Estonian energy system and emissions modelling using markal model**

**Esop, Markko-Raul; Liik, Olev; Valdma, Mati; Landsberg, Mart** Economics of greenhouse gas limitations : country study series : Estonia 1999 / p. 127-168: ill

### **Estonia's fourth national communication : under the UN framework convention on climate change : Estonia, November 2005**

2005 [https://www.ester.ee/record=b4222739\\*est](https://www.ester.ee/record=b4222739*est)

### **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>

### **Future power system out-of-step protection concept utilizing synchronized phasor measurements = Tuleviku elektrisüsteemi faasimõõtmistel põhinev sünkronismikaotuskaitse kontseptsioon**

**Tealane, Marko** 2023 <https://doi.org/10.23658/taltech.9/2023> <https://digikogu.taltech.ee/et/item/159731eb-e93e-4892-875f-3806cd16e64c> [https://www.ester.ee/record=b5542953\\*est](https://www.ester.ee/record=b5542953*est)

### **Health index prediction of overhead transmission lines : a machine learning approach**

**Manninen, Henri; Kilter, Jako; Landsberg, Mart** IEEE transactions on power delivery 2022 / p. 50-58

<https://doi.org/10.1109/TPWRD.2021.3052721> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Hispaania stsenaarium: miks elektrisüsteemid ootamatult kustuivad**

**Landsberg, Mart** postimees.ee 2025 <https://tehnika.postimees.ee/8239729/eksperdi-ulevaade-hispaania-stsenaarium-miks-elektrisusteemid-ootamatult-kustuivad>

### **A holistic risk-based maintenance methodology for transmission overhead lines using tower specific health indices and value of loss load**

**Manninen, Henri; Kilter, Jako; Landsberg, Mart** International journal of electrical power and energy systems 2022 / art. 107767 ; 11 p. : ill <https://doi.org/10.1016/j.ijepes.2021.107767> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **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)

### **Incorporating service type in aging failure model of high voltage circuit breaker**

**Asefi, Sajjad; Kilter, Jako; Landsberg, Mart** 2023 27th International Conference Electronics : proceedings 2023 / 5 p <https://doi.org/10.1109/IEEECONF58372.2023.10177602>

### **Large scale electric vehicle integration and its impact on the Estonian power system**

**Drovtar, Imre; Rosin, Argo; Landsberg, Mart; Kilter, Jako** IEEE PowerTech 2013, Grenoble, France, 16-20 June 2013 : proceedings 2013 / [6] p [https://www.researchgate.net/publication/261398872\\_Large\\_scale\\_electric\\_vehicle\\_integration\\_and\\_its\\_impact\\_on\\_the\\_Estonian\\_power\\_system](https://www.researchgate.net/publication/261398872_Large_scale_electric_vehicle_integration_and_its_impact_on_the_Estonian_power_system)

### **Large-scale wind integration impact on the Baltic region's electricity market participants in 2025 - with and without RES subsidies**

**Drovtar, Imre; Landsberg, Mart; Kilter, Jako; Rosin, Argo** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 117-121 : ill

### **Long-term capacity planning and feasibility of nuclear power in Estonia under uncertain conditions = Pikaajaline elektritootmisvõimsuste planeerimine ja tuumaelektrijaama tasuvus Eestis määramatuse tingimustes**

**Landsberg, Mart** 2008 [https://www.ester.ee/record=b2449421\\*est](https://www.ester.ee/record=b2449421*est)

### **Mart Landsberg: ei ole probleeme, on väljakutsed ja on lahendused, mida koos leiame**

**Landsberg, Mart** toostusest.ee 2024 [Mart Landsberg: ei ole probleeme, on väljakutsed ja on lahendused, mida koos leiame](#)

### **Mart Landsberg: "Olen üsna kindel, et poole sajandi jooksul toimub energeetikas väga oluline tehnoloogiline läbimurre."**

**Landsberg, Mart** Elektriala 2025 / lk. 46-51 [https://www.ester.ee/record=b1240496\\*est](https://www.ester.ee/record=b1240496*est)

### **Maximum risk calculation process for individual substation equipment in primary side**

**Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863055>

### **Measurement and operation based condition monitoring methodology for high voltage circuit breakers**

**Asefi, Sajjad; Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Kalmet, Tauri; Manninen, Henri; Landsberg, Mart** 2022 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : proceedings 2022 / Art. 184786 <https://doi.org/10.1109/ISGT-Europe54678.2022.9960521>

### **Meid valitsevad juhutarkus ja juhuelekter**

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

### **Methodology for forecasting the cost of substation asset management in upcoming future**

**Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart** 2024 IEEE International Conference on Power and Energy (PECon) 2024 / p. 185-190 <https://doi.org/10.1109/PECon62060.2024.10826804>

### **Mitigation analysis for Estonia**

**Martins, Ants; Landsberg, Mart; Liik, Olev** Global climate change mitigation assessment : results for 14 transitioning and developing countries 1997 / p. 59-73

### **Multi-stage deep learning networks for automated assessment of electricity transmission infrastructure using fly-by images**

**Manninen, Henri; Ramlal, Craig J.; Singh, Arvind; Kilter, Jako; Landsberg, Mart** Electric power systems research 2022 / art. 107948 <https://doi.org/10.1016/j.epsr.2022.107948> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A new method for estimation of fuel savings by wind energy and its impact on powersystem planning [Electronic resource]**

**Liik, Olev; Oidram, Rein; Keel, Matti; Landsberg, Mart** Proceedings of Power-Gen Europe 2004 : 25-27 May 2004, Barcelona, Spain 2004 / paper 357, [18] p. [CD-ROM]

### **Non-intrusive defects identification for the high voltage instrument transformers**

**Asefi, Sajjad; Kilter, Jako; Landsberg, Mart** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227493>

### **Onninen Energiapäev 2025 - pilguheit energiatulevikku**

Elektriala 2025 / lk. 8-9 : fot [https://www.ester.ee/record=b1240496\\*est](https://www.ester.ee/record=b1240496*est)

### **Optimal introduction of a nuclear power plant in Estonia under uncertain conditions**

**Landsberg, Mart; Tammoja, Heiki; Kilter, Jako** 6th International Conference "2008 Power Quality and Supply Reliability" : August 27-29, 2008 : Pärnu, Estonia : conference proceedings 2008 / p. 211-216 : ill

### **Optimal Investment strategies for energy sector under uncertainty**

**Landsberg, Mart; Agabus, Hannes; Liik, Olev** 3rd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 16-21, 2006 2006 / p. 120-127 : ill

### **Possibilities and analysis of integration of large-scale offshore wind parks into Estonian power system**

**Kilter, Jako; Tšernobrovkin, Oleg; Landsberg, Mart; Agabus, Hannes; Palu, Ivo** 8th International Workshop on Large Scale Integration of Wind Power and on Transmission Networks for Offshore Wind Farms : Bremen, Germany, 14-15 October, 2009 2009 / p. 624-629

### **Possibilities to develop the use of renewable energy and co-generation in Saaremaa**

**Landsberg, Mart; Agabus, Hannes; Liik, Olev** 2nd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 17-22, 2005 2005 / p. 113-118 : ill., map

### **Possibilities to develop the use of wind energy in Saaremaa island**

**Liik, Olev; Landsberg, Mart; Ojangu, Jaanus; Kilk, Kalle; Agabus, Hannes** Scientific proceedings of Riga Technical University. Serija 4, Power and electrical engineering 2005 / p. 86-93 : ill

### **Problems related to grid connection in Pakri Wind Park**

**Oidram, Rein; Landsberg, Mart; Agabus, Hannes; Attikas, Raivo; Ojangu, Jaanus; Palu, Ivo** Nordic Wind Power Conference - NWPC'2006 : Grid Integration and Electrical Systems of Wind Turbines and Wind Farms : 22-23 May 2006, Hanasaari, Espoo, Finland 2006 / [4] p. : ill

### **Ratio of load curtailment based detection of the maximum risk of substation devices**

**Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart** IEEE PES Innovative Smart Grid Technologies Conference

Europe (ISGT Europe 2023) : proceedings 2023 / 5 p <https://doi.org/10.1109/ISGTEUROPE56780.2023.10408265>

#### **Reduction of CO2 emissions in Estonia during 2000-2030**

**Agabus, Hannes; Landsberg, Mart; Tammaja, Heiki** Oil shale 2007 / p. 209-224 : ill

[https://www.researchgate.net/publication/228625117\\_Reduction\\_of\\_CO2\\_emissions\\_in\\_Estonia\\_during\\_2000-2030](https://www.researchgate.net/publication/228625117_Reduction_of_CO2_emissions_in_Estonia_during_2000-2030)

#### **Review of high voltage instrument transformer condition monitoring**

**Asefi, Sajjad; Asad, Bilal; Leinakse, Madis; Manninen, Henri; Kilter, Jako; Vaimann, Toomas; Kallaste, Ants; Tealane, Marko;**

**Landsberg, Mart** IEEE Transactions on Dielectrics and Electrical Insulation 2024 / 12 p <https://doi.org/10.1109/TDEI.2024.3422260>

#### **Some scenarios of CO2 emissions from the energy system**

**Liik, Olev; Landsberg, Mart** Estonia in the system of global climate change 1996 / p. 190-206: ill

#### **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

#### **The challenges for fossil fuel power system associated with integration of large scale renewable generation**

**Knõš, Izabella; Landsberg, Mart; Valtin, Juhan** Proceedings of the 2014 International Conference & Utility Exhibition on Green Energy for Sustainable Development (ICUE) : Jomtien Palm Beach Hotel and Resort, Pattaya City, Thailand 19-21 March 2014 2014

/ [8 p] <https://ieeexplore.ieee.org/document/6828891>

#### **Toward automated utility pole condition monitoring : a deep learning approach**

**Ramlal, Craig J.; Singh, Arvind; Rocke, Sean; Manninen, Henri; Kilter, Jako; Landsberg, Mart** Proceedings of 2020 IEEE PES

Innovative Smart Grid Technologies Europe (ISGT-Europe), 26-28 October, 2020 2020 / p. 255–259 <https://doi.org/10.1109/ISGT-Europe47291.2020.9248797>

#### **Toward automatic condition assessment of high-voltage transmission infrastructure using deep learning techniques**

**Manninen, Henri; Ramlal, Craig J.; Singh, Arvind; Rocke, Sean; Kilter, Jako; Landsberg, Mart** International journal of electrical

power & energy systems 2021 / art. 106726 <https://doi.org/10.1016/j.ijepes.2020.106726> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

#### **Uued inimesed ja positsioonid**

**Riivits-Arkonsuo, Iivi; Wahl, Mike Franz; Kisel, Einari; Sulakatko, Sirja; Landsberg, Mart; Sarkar, Aditi; Raadik, Heiki** Mente

et Manu 2024 / lk. 45-49 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

#### **Variability of high voltage circuit breaker performance parameters for condition monitoring**

**Asefi, Sajjad; Kiitam, Ivar; Manninen, Henri; Kilter, Jako; Tealane, Marko; Landsberg, Mart** International Conference on Condition

Monitoring, Diagnosis and Maintenance 2023 - CMDM 2023 (7th edition), Bucharest, Romania, October 31th - November 2nd, 2023 : proceedings 2023 / p. 1-10

#### **Verification of wind parks and their integration into small-interconnected power systems**

**Kilter, Jako; Landsberg, Mart; Palu, Ivo; Tšernobrovkin, Oleg** IEEE PowerTech 2009 Conference : Bucharest, 28.06-02.07.2009

2009 / ? p