

Accuracy of voltage instrument transformers for harmonic measurements in Elering's 330-kV-transmission network

Meyer, Jan; Stiegler, Robert; **Kilter, Jako** PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 85-90 : ill <https://doi.org/10.1109/PQ.2016.7724094>

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 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>

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

Plaum, Freddy; Ahmadiyahangar, 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](#)

Air-core inductive current sensor for fast transients measurements in distribution networks

Kütt, Lauri; Järvik, Jaan; Kilter, Jako; Shafiq, Muhammad; Lehtonen, Matti PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 249-252 : ill

https://www.researchgate.net/publication/261507011_Air-core_inductive_current_sensor_for_fast_transients_measurements_in_distribution_networks

Alalisvooluülekande türistorventiilid. Osa 2, Terminoloogia [Võrguteavik] = Thyristor valves for high-voltage direct current (HVDC) power transmission. Part 2, Terminology (IEC 60700-2:2016+IEC 60700-2:2016/AMD1:2021)

2022 https://www.ester.ee/record=b5485873*est

Alalisvooluülekande türistorventiilid. Osa 2, Terminoloogia [Võrguteavik] = Thyristor valves for high-voltage direct current (HVDC) power transmission. Part 2, Terminology (IEC 60700-2:2016)

2020 https://www.ester.ee/record=b5329543*est

Alalisvooluülekande [Võrguteavik] : sõnastik = High-voltage direct current (HVDC) transmission : vocabulary (IEC 60633:2019)

2020 https://www.ester.ee/record=b5307917*est

Analysis of the applicability of PMU measurements for power quality assessment

Löper, Mari; Trummal, Tarmo; Kilter, Jako 2018 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Sarajevo, Bosnia and Herzegovina, October 21-25, 2018 : proceedings 2018 / 6 p

<https://doi.org/10.1109/ISGTEurope.2018.8571618>

Analysis of the traction system impact on voltage unbalance distribution in public electric networks

Sarnet, Tanel; Kilter, Jako 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 238-241 : ill

Analysis of transmission network short cable line sheath bonding methods

Kangro, Triin; 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 / 6 p.: ill

<https://doi.org/10.1109/EEEIC.2018.8493944>

Andmete- ja andmesidekvaliteedi suurendamine faasimõõteseadmete (PMU) lisamisega Eesti ülekandevõrgu alajaamadesse

Kilter, Jako; Leinakse, Madis 2022

Assessment of corona loss performance on aging transmission lines using PMU measurements

Gupta, Pradeep Kumar; **Tuttelberg, Kaur; Kilter, Jako** Energy reports 2023 / p. 215-219 <https://doi.org/10.1016/j.egy.2023.09.160>

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

Assessment of higher harmonics influence to PMU measurement accuracy

Löper, Mari; Salumäe, Uku; Kilter, Jako 2017 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : Torino, Italy 26-29 September 2017 : Conference Proceedings 2017 / 6 p. : ill <https://doi.org/10.1109/ISGTEurope.2017.8260271>

Assessment of synchronous generator's influence on transmission network with significant level of voltage unbalance

Sarnet, Tanel; Kilter, Jako Elektronika ir elektrotehnika = Electronics and electrical engineering 2012 / p. 11-14 : ill

<https://eejournal.ktu.lt/index.php/elt/article/view/2796>

Assessment of transmission network voltage unbalance in connection of high-speed electrical railway connection
Kilter, Jako; Sarnet, Tanel; Kangro, Triin PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 329-334 : ill

Assessment of voltage instrument transformers accuracy for harmonic measurements in transmission systems [Online resource]

Stiegler, Robert; Meyer, Jan; **Kilter, Jako**; Konzelmann, Simon Proceedings of 2016 17th International Conference on Harmonics and Quality of Power (ICHQP) : Belo Horizonte, Minas Gerais, Brazil, 16-19 October 2016 2016 / p. 152-157 : ill
<https://doi.org/10.1109/ICHQP.2016.7783472>

Avalike elektrivõrkude pingete tunnussuured = Voltage characteristics of electricity supplied by public electricity networks

2011 https://www.ester.ee/record=b2743062*est

Avalike elektrivõrkude pingete tunnussuured = Voltage characteristics of electricity supplied by public electricity networks [Võrguteavik]

2015 http://www.ester.ee/record=b4512339*est

Avalike elektrivõrkude pingete tunnussuured [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks

2019 https://www.ester.ee/record=b5273602*est

Avalike elektrivõrkude pingete tunnussuured [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks

2019 https://www.ester.ee/record=b5273643*est

Avalike elektrivõrkude pingete tunnussuured [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks

2019

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

Leinakse, Madis; Kilter, Jako 2023

Bare overhead conductor thermal rating calculation on the example of Estonian OHL

Šlenduuhov, Vadim; Kilter, Jako 14th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 210-213 : ill

Benchmarking of power quality performance in transmission systems - CIGRE WG C4.27 perspective [Online resource]

Kilter, Jako; Vujatovic, Davor; Elphick, Sean Proceedings of 2016 17th International Conference on Harmonics and Quality of Power (ICHQP) : Belo Horizonte, Minas Gerais, Brazil, 16-19 October 2016 2016 / p. 949-954 <https://doi.org/10.1109/ICHQP.2016.7783342>

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>

Case studies for power quality monitoring in public distribution grids – some results of working group CIGRE/CIREDC4.112

Meyer, Jan; **Kilter, Jako** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 85-92 : ill

CIGRE/CIREDC4.112 guidelines for power quality monitoring – measurement locations, processing and presentation of data

Milanovic, Jovica V.; **Kilter, Jako**; Bollen, M. H. J.; Meyer, Jan Electra 2014 / p. 39-47

Clustering of Transmission System Loads Based on Monthly Load Class Energy Consumptions

Leinakse, Madis; Kilter, Jako 2020 21st International Scientific Conference on Electric Power Engineering (EPE), October 19-21, 2020, Prague, Czech Republic 2020 / 6 p. : ill <https://doi.org/10.1109/EPE51172.2020.9269197>

Comparative analysis of HVAC cable metallic sheath modelling approaches for network studies

Kangro, Triin; Kilter, Jako; De Silva, Jeewantha 2018 18th International Conference on Harmonics and Quality of Power (ICHQP 2018) : Ljubljana, Slovenia, 13 – 16 May 2018 2018 / 6 p. : ill <https://doi.org/10.1109/ICHQP.2018.8378924>

Comparison of system identification methods applied to analysis of inter-area modes [Online resource]

Tuttelberg, Kaur; Kilter, Jako; Uhlen, Kjetil Proceedings of IPST 2017 2017 / art. 17IPST121, p. 1-6 : ill

http://www.ipstconf.org/Proc_IPST2017.php

Compliance assessment of a phasor measurement unit to IEC 61000-4-30 class a for power quality measurements in transmission systems

Löper, Mari; Kilter, Jako; Stiegler, Robert; Meyer, Jan 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.2019.8818272>

Contemporary and future aspects of cost effective power quality monitoring - position paper of CIGRE WG C4.112

Meyer, Jan; **Kilter, Jako** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 83-88 : ill <https://ieeexplore.ieee.org/abstract/document/6256208/similar#similar>

Continuous monitoring of power system inertia and transmission loss components using synchronized phasor measurements = Elektrisüsteemi inertsi ja ülekandekadude komponentide pidev jälgimine faasimõõtmiste abil

Tuttelberg, Kaur 2018 <https://digi.lib.ttu.ee/i/?10732> https://www.ester.ee/record=b5151804*est

Conversion error of exponential to second order polynomial ZIP load model conversion

Leinakse, Madis; 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 / p. 1-5 <https://doi.org/10.1109/EEEIC.2018.8493667>

Conversion error of second order polynomial ZIP to exponential load model conversion

Leinakse, Madis; Kilter, Jako Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER 2018) : Dubrovnik, Croatia, 12-15 November 2018 2018 / 5 p <https://doi.org/10.1049/cp.2018.1882>

Correcting systematic errors in corona losses measured with phasor measurement units

Tuttelberg, Kaur; Löper, Mari; Kilter, Jako IEEE transactions on power delivery 2019 / p. 2275-2277 : ill

<https://doi.org/10.1109/TPWRD.2019.2917610> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost-effective optimization of load shifting in the industry by using intermediate storages

Uuemaa, Priit; Kilter, Jako; Valtin, Juhan; Drovtar, Imre; Rosin, Argo; Puusepp, Andres Conference proceedings of IEEE ISGT Europe 2013 : 4th IEEE/PES Innovative Smart Grid Technologies Europe 2013 / [5] p

Critical PQ phenomena and sources of PQ disturbances in PE rich power systems : Deliverable 5.1 [Online resource]

Kilter, Jako; Löper, Mari; Kangro, Triin; Palu, Ivo 2016 [Deliverable 5.1](#)

Current practice and future challenges for power quality monitoring – CIGRE WG C4.112 perspective

Kilter, Jako 2012 IEEE 15th International Conference on Harmonics and Quality of Power : proceedings of ICHQP2012 : Kowloon Shangri-La Hotel, Hong Kong, 17-20 June, 2012 2012 / p. 390-397 : ill

Current practice on power quality legislation within European transmission systems – results from Horizon 2020 project MIGRATE

Kilter, Jako; Trummal, Tarmo; Löper, Mari; Palu, Ivo 2020 19th International Conference on Harmonics and Quality of Power (ICHQP), 6-7 July 2020, Dubai, UAE 2020 <https://doi.org/10.1109/ICHQP46026.2020.9177907>

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

Ülekandevõrgu õhuliinide andmepõhine varahalduse ja seisundi hindamise meetodika

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

Demand side management in small power systems - the Estonian case study

Drovtar, Imre; Rosin, Argo; Kilter, Jako Elektronika ir elektrotehnika = Electronics and electrical engineering 2016 / p. 13-19 : ill
<http://dx.doi.org/10.5755/j01.eie.22.3.15308>

Demand side management possibilities and viability for voltage support services in Estonia = Tarbimise juhtimise võimaluste uurimine ning rakendatavus pingereguleerimise teenusteks Eestis

Drovtar, Imre 2016 <http://digi.lib.ttu.ee/i/?6032> https://www.ester.ee/record=b4601226*est

Demand side management potential in Estonia - a case study for the wood industry

Drovtar, Imre; Rosin, Argo; Kilter, Jako 14th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 94-97 : ill

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 high-frequency transient current sensor for powerline on-line measurement

Kütt, Lauri; Järvik, Jaan; Kilter, Jako; Shafiq, Muhammad; Lehtonen, Matti Electrical and control technologies : proceedings of the the 7th international conference on electrical and control technologies ECT-2012 2012 / p. 212-216 : ill
<https://research.aalto.fi/publications/design-of-high-frequency-transient-current-sensor-for-powerline-o>

Distribution network state monitoring

Meldorf, Mati; Treufeldt, Ülo; Kilter, Jako Scientific proceedings of Riga Technical University. Serija 4, Power and electrical engineering 2005 / p. 80-85 : ill

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

Drovtar, Imre; Landsberg, Mart; **Kilter, Jako; Rosin, Argo** Przeglad 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

Eesti elektrisüsteemi laiseiresüsteemi arendamine ja analüüs (WAMPAC) : uurimustöö 1.1-4/13/232 / Lep13118 I etapi aruanne [Võrguväljaanne]

Palu, Ivo; Valdma, Mati; Meldorf, Mati; Keel, Matti; Šuvalova, Jelena; Šlenduhoov, Vadim; Kangro, Triin; Vaino, Sander; Sarnet, Tanel; Kilter, Jako; Ülavere, Eero; Reinson, Andrus 2014

Eesti elektrisüsteemi laiseiresüsteemi arendamine ja analüüs (WAMPAC) : uurimustöö 1.1-4/13/232 / Lep13118 II etapi aruanne [Võrguväljaanne]

Palu, Ivo; Meldorf, Mati; Šuvalova, Jelena; Liiv, Innar; Tuttelberg, Kaur; Kangro, Triin; Astapov, Victor; Sarnet, Tanel; Šlenduhoov, Vadim; Kilter, Jako; Ülavere, Eero; Reinson, Andrus 2014

Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud : uurimistöö 1.1-4/2015/227 / Lep 15066 I etapi lõpparuanne [Võrguteavik]

Treufeldt, Ülo; Leinakse, Madis; Salumäe, Uku; Sarnet, Tanel; Meldorf, Mati; Kilter, Jako; Reinson, Andrus; **Drovtar, Imre** 2015
http://elering.ee/public/Infokeskus/Uuringud/Koormuste_karakteristikud.pdf

Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud : uurimistöö 1.1-4/2015/227 / Lep 15066 II etapi lõpparuanne [Võrguteavik]

Treufeldt, Ülo; Meldorf, Mati; Leinakse, Madis; Sarnet, Tanel; Salumäe, Uku; Kilter, Jako; Krusell, Kaur; Reinson, Andrus; Matjas, Ilja 2016
<https://elering.ee/sites/default/files/attachments/Eesti%20elektris%20steemi%20%C3%BClekandev%20%C3%BCrgu%20koormuste%20staatilised%20ja%20%C3%BCnaamilised%20karakteristikud%202.etapp%202016.pdf>

Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud : uurimistöö 1.1-4/2015/227 / Lep 15066 lõpparuanne [Võrguteavik]

Treufeldt, Ülo; Meldorf, Mati; Leinakse, Madis; Sarnet, Tanel; Salumäe, Uku; Kilter, Jako; Krusell, Kaur; Reinson, Andrus; Matjas, Ilja 2017 [Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud](#)

Electrical network load monitoring on special days

Meldorf, Mati; Treufeldt, Ülo; Kilter, Jako Scientific proceedings of Riga Technical University. Serija 4, Power and electrical engineering 2006 / p. 19-23 : ill

Electricity consumption analysis and power quality monitoring in commercial buildings

Drovtar, Imre; Niitsoo, Jaan; Rosin, Argo; Kilter, Jako; Palu, Ivo PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 107-112 : ill
<https://ieeexplore.ieee.org/document/6256212>

Elektriraudtee ja selle mõjud elektrisüsteemi talitlusele

Kilter, Jako; Kangro, Triin; Sarnet, Tanel; Palu, Ivo 2015 https://www.ester.ee/record=b4495599*est

Elektrisüsteemi stabiilsus

Meldorf, Mati; Kilter, Jako 2011 http://www.ester.ee/record=b2753320*est

Elektrituulikud. Osa 21, Elektrivõrguga ühendatud elektrituulikute elektri kvaliteedi näitajate mõõtmine ja hindamine = Wind turbines. Part 21, Measurement and assessment of power quality characteristics of grid connected wind turbines (IEC 61400-21:2008)

2010 https://www.ester.ee/record=b4274376*est

Elektrivõrgu operatiivjuhtimissüsteem

Meldorf, Mati; Tikk, Tõnis; Kilter, Jako 2010 http://www.ester.ee/record=b2668039*est

Elektriõhuliinid vahelduvpingega üle 1 kV. Osa 2-20, Eesti riiklikud erinõuded (SEN) [Võrguteavik] = Overhead electrical

lines exceeding AC 1 kV. Part 2-20, National Normative Aspects (NNA) for Estonia (based on EN 50341-1:2012)
2018 https://www.ester.ee/record=b5186383*est

Enefit oil factory (Enefit 280 and Enefit 280-2) plant controller algorithm
Sarnet, Tanel; Kilter, Jako 2022

Energy storage facilities impact on flexibility of active distribution networks: stochastic approach
Alipour, Manijeh; Gharehpetian, Gevork B.; **Ahmadihangar, Roya; Rosin, Argo; Kilter, Jako** Electric power systems research 2022 / art. 108645 <https://doi.org/10.1016/j.epr.2022.108645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estimation and conversion of static load models of aggregated transmission system loads = Ülekandevõrgu sõlmekoormuste staatiliste koormusmudelite määramine ja teisendamine
Leinakse, Madis 2022 <https://doi.org/10.23658/taltech.3/2022> <https://digikogu.taltech.ee/et/Item/f179e30b-3265-4cc4-94d5-29750f3e9bfb>
https://www.ester.ee/record=b5491230*est

Estimation of distribution network state on the basis of a mathematical load model
Meldorf, Mati; Treufeldt, Ülo; Kilter, Jako Oil shale 2005 / 2S, p. 161-170 https://artiklid.elnet.ee/record=b2346713*est

Estimation of exponential and ZIP load model of aggregated load with distributed generation
Leinakse, Madis; Andreesen, Guido; Tani, Pärtel; Kilter, Jako 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / p. 1-6 <https://doi.org/10.1109/RTUCON53541.2021.9711702>

Estimation of power system inertia from ambient wide area measurements
Tuttelberg, Kaur; Kilter, Jako; Wilson, Douglas; Uhlen, Kjetil 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 1 p <https://doi.org/10.1109/PESGM40551.2019.8973822>

Estimation of power system inertia from ambient wide area measurements
Tuttelberg, Kaur; Kilter, Jako; Wilson, Douglas; Uhlen, Kjetil IEEE transactions on power systems 2018 / p. 7249-7257
<https://doi.org/10.1109/TPWRS.2018.2843381> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estimation of transmission loss components from phasor measurements
Tuttelberg, Kaur; Kilter, Jako International journal of electrical power & energy systems 2018 / p. 62-71 : ill
<https://doi.org/10.1016/j.ijepes.2017.11.040> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

EstLink 1 ja EstLink 2 : sarnased või sootuks erinevad elektriühendused Soomega?
Haug, Reigo; **Kilter, Jako** Inseneria 2014 / lk. 34-35 https://artiklid.elnet.ee/record=b2664996*est

Estonian WAMS system - implementation and experiences
Kilter, Jako; Goloshchapov, A.; Mahkovec, B. 3rd International Scientific and Technical Conference - Actual Trends in Development of Power System Protection and Automation : St. Petersburg, 30.05-03.06.2011 : conference proceedings 2011

EU regulation establishing a network code on requirements for grid connection of generators
Pfeiffer, R.; Haesen, E.; **Kilter, Jako** 14th Workshop on Large-Scale Integration of Wind Power into Power Systems as well as on Transmission Networks for Offshore Wind Power Plants : 20-22 October 2015, Brussels, Belgium : proceedings 2015

Euroopa standardi EN 50160 rakendusjuhend = Guide for the application of the European Standard EN 50160 [Võrguteavik]
2014

Experiences with dynamic PMU compliance testing using standard relay testing equipment [Electronic resource]
Kilter, Jako; Palu, Ivo; Almas, Muhammad Shoaib; Vanfretti, Luigi 2015 IEEE Power and Energy Society Innovative Smart Grid Technologies Conference (ISGT 2015) : 18-20 February 2015, Washington, DC, USA 2015 / [5] p. : ill. [USB]
<http://dx.doi.org/10.1109/ISGT.2015.7131833>

Experiences with steady-state PMU compliance testing using standard relay testing equipment
Almas, Muhammad Shoaib; **Kilter, Jako; Vanfretti, Luigi** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 103-110 : ill

Exponential to ZIP and ZIP to exponential load model conversion : methods and error
Leinakse, Madis; Kilter, Jako IET generation, transmission & distribution 2021 / p. 177-193 <https://doi.org/10.1049/gtd2.12002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

First results on load model estimation using digital fault recorder measurements
Leinakse, Madis; Sarnet, Tanel; Kangro, Triin; Kilter, Jako 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p.

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

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

Guidelines for power quality monitoring – results from CIGRE/CIREN JWG C4.112

Kilter, Jako; Elphick, Sean; Meyer, Jan; Milanovic, Jovica V. Proceedings of 2014 16th International Conference on Harmonics and Quality of Power (ICHQP) : University POLITEHNICA of Bucharest, Bucharest, Romania, 25-28 May 2014 2014 / p. 703-707 : tab

Guidelines for power quality monitoring : measurement locations, processing and presentation of data

Milanovic, Jovica V.; **Kilter, Jako** 2014

Harku Estlink 1 ja Kiisa AREJ-de koostöö uuring

Kilter, Jako; **Sarnet, Tanel** 2023

Harmonic emissions of power electronic devices under different transmission network operating conditions

Božicek, Ambrož; **Kilter, Jako**; **Sarnet, Tanel**; Papic, Igor; Blažis, Boštjan IEEE transactions on industry applications 2018 / p. 5216-5226 : ill <https://doi.org/10.1109/TIA.2018.2808478> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Harmonic levels of domestic and electrical vehicle loads in residential distribution networks

Niitsoo, Jaan; **Kilter, Jako**; **Palu, Ivo**; **Taklaja, Paul**; **Kütt, Lauri** Proceedings of IEEE AFRICON 2013 Conference : 9-12 September 2013, Mauritius 2013 / p. 184-188

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](#)

High-frequency current sensor for power network on-line mea[s]urements

Kütt, Lauri; **Järvik, Jaan**; **Vaimann, Toomas**; Shafiq, Muhammad; Lehtonen, Matti; **Kilter, Jako** Proceedings of the 13th International Scientific Conference Electric Power Engineering 2012 : EPE 2012 : Brno. Vol. 1 2012 / p. 367-371 : ill

https://www.researchgate.net/publication/262674502_High-Frequency_Current_Sensor_for_Power_Network_On-line_Measurements

A holistic D-PMU optimal placement framework considering pragmatic constraints in smart grids

Farhizadan, Mohammadreza; Karrari, Mehdi; Gharehpetian, Gevork B.; **Ahmadihangar, Roya**; **Kilter, Jako**; **Rosin, Argo** IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 p.

<https://doi.org/10.1109/CPE-POWERENG54966.2022.9880881>

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](#)

HVDC connection of offshore wind power plants

Elahi, H.; **Kilter, Jako**; Ebner, G. 2015

Identification of intra-day variations of static load characteristics based on measurements in high-voltage transmission network

Leinakse, Madis; **Kiristaja, Hendrik**; **Kilter, Jako** 2018 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Sarajevo, Bosnia and Herzegovina, October 21-25, 2018 : proceedings 2018 / 6 p

<https://doi.org/10.1109/ISGTEurope.2018.8571712>

Impact of distributed generation on estimation of exponential load models

Leinakse, Madis; **Tani, Pärtel**; **Kilter, Jako** 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 5 p. : ill

<https://doi.org/10.1109/PESGM40551.2019.8974014>

Impact of voltage instrument transformers on the accuracy of harmonic measurements in a 330 kV transmission grid

Meyer, Jan; Stiegler, Robert; Schegner, Peter; **Kilter, Jako** Instrument Transformer Measurement Forum (ITMF) : October 13-15, 2015, Feldkirch, Austria 2015

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

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/IEECONF58372.2023.10177602>

Industrial CHP optimal management in the energy market under incomplete information

Uuemaa, Priit; Drovtar, Imre; Kilter, Jako 2014 IEEE Innovative Smart Grid Technologies Conference - Asia (ISGT ASIA) Conference : May 20-23, 2014, Berjaya Times Square Hotel, Kuala Lumpur 2014 / p. 383-387 : ill

Influence of electric railway system on voltage unbalance distribution between high voltage and low voltage electrical networks

Sarnet, Tanel; Kilter, Jako; Palu, Ivo Electrical and control technologies : proceedings of the 8th International Conference on Electrical and Control Technologies ECT-2013 : Kaunas, Lithuania, 2-3 May 2013 2013 / p. 168-171

Influence of system protection to Estonian power system security

Kilter, Jako; Reinson, Andrus; Kraav, Rein PQ2010 : 7th International Conference "2010 Electric Power Quality and Supply Reliability" : June 16-18, 2010, Kuressaare, Estonia 2010 / p. 23-28 : ill

Info-gap-based optimization of microgrids integrated with power, cooling and hydrogen generation units

Mahmoudnezhad, Fayeze; Mirzaei, Mohammad Amin; **Plaum, Freddy; Ahmadiyahangar, Roya; Kilter, Jako; Rosin, Argo** 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 I
<https://doi.org/10.1109/CPE-POWERENG54966.2022.9880860>

Integration of Wide Area Monitoring technology and enhancement of power system reliability in Baltic power system

Kilter, Jako; Reinson, Andrus 6th International Conference "2008 Power Quality and Supply Reliability" : August 27-29, 2008 : Pärnu, Estonia : conference proceedings 2008 / p. 41-46 : map

Jaotusvõrgud

Meldorf, Mati; Tammoja, Heiki; Treufeldt, Ülo; Kilter, Jako 2007 https://www.ester.ee/record=b2347094*est

Keskmişed jõutrafad sagedusele 50 Hz seadme suurima lubatava kestevpingega mitte üle 36 kV. Osa 1, Üldnõuded [Võrguteavik] = Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV. Part 1, General requirements

2017 http://www.ester.ee/record=b4767645*est

Kõrgepingeline lülitus- ja juhtimisaparatuur. Osa 1, Vahelduvvoolu lülitus- ja juhtimisaparatuuri üldliigitus [Võrguteavik] = High-voltage switchgear and controlgear. Part 1, Common specifications for alternating current switchgear and controlgear (IEC 62271-1:2017)

2017 http://www.ester.ee/record=b4768187*est

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

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

Load control implementation in the energy intensive industry

Uuemaa, Priit; Valtin, Juhan; Kilter, Jako; Puusepp, Allan; **Drovtar, Imre; Rosin, Argo** 17th IEEE Mediterranean Electrotechnical Conference, Beirut, Lebanon, 13-16 April 2014 2014 / p. 213-218 : ill

Madalpingevõrkudes kasutatavate seadmete isolatsiooni koordineerimine. Osa 3, Ühe- ja kahepoolsete pinnakatete ning kompaundivormide kasutamine saastekaitseks = Insulation coordination for equipment within low-voltage systems. Part 3, Use of coating, potting or moulding for protection against pollution (IEC 60664-3:2003/A1:2010)

2011 https://www.ester.ee/record=b2743110*est

Magnetic current sensor stray components in high frequency operation and their effects

Kütt, Lauri; Järvi, Jaan; Mölder, Heigo; Kilter, Jako; Shafiq, Muhammad Conference proceedings : 2012 11th International Conference on Environment and Electrical Engineering : Venice, Italy, 18-25 May 2012 2012 / p. 617-620 : ill
<https://ieeexplore.ieee.org/abstract/document/6221451>

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>

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

Modal transformation matrices for phasor measurement based line parameter estimations

Tuttelberg, Kaur; Kilter, Jako International Conference on Power Systems Transients (IPST 2015) : 15th-18th of June 2015, Cavtat, Croatia 2015 / [6] p. : ill

Model verification for analysis of wind power impact to transient stability in isolated power system using combined relay protection and dynamics modelling approach

Maripuu, Rain; Tsernobrovkin, Oleg; Palu, Ivo; Kilter, Jako PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 169-174 : ill
<https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=6256222>

Modeling and analysis of the synchronous generators excitation systems

Slenduhhov, Vadim; **Kilter, Jako** 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 252-257 : ill

Modeling and analysis of voltage unbalance and its influence on transmission network and power quality

Sarnet, Tanel; Kilter, Jako Electrical and Control Technologies : proceedings of the the 7th International Conference on Electrical and Control Technologies ECT-2012 2012 / p. 179-182 : ill

Modelling and estimation of distribution network operation

Kilter, Jako; Meldorf, Mati Scientific proceedings of Riga Technical University. Serija 4, Power and electrical engineering 2007 / p. 103-108 : ill

Modelling of distribution level coreless induction furnace for rapid voltage change assessment

Trummal, Tarmo; Sarnet, Tanel; Kilter, Jako Electric power systems research 2021 / art. 107151
<https://doi.org/10.1016/j.epr.2021.107151> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modelling of high-speed electrical railway system for transmission network voltage quality analysis : Rail Baltic case study

Kilter, Jako; Sarnet, Tanel; Kangro, Triin PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 323-328 : ill

Monitoring of electrical distribution network operation = Jaotusvõrgu talitluse seire

Kilter, Jako 2009 https://www.ester.ee/record=b2498170*est

Monitoring of the distribution network operation

Kilter, Jako; Meldorf, Mati Proceedings of 4th IASME/WSEAS International Conference on Energy & Environment (EE'09) : Cambridge, UK, February 24-26, 2009 2009 / p. 263-268

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.epr.2022.107948> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mõõtetrafod. Osa 1, Voolutrafod = Instrument transformers. Part 1, Current transformers (IEC 60044-1:1996, modified)

2010 https://www.ester.ee/record=b2646205*est

Mõõtetrafod. Osa 3, Lisanõuded induktiivpingetrafodele = Instrument transformers. Part 3, Additional requirements for inductive voltage transformers (IEC 61869-3:2011)

2012 https://www.ester.ee/record=b2896163*est

Mõõtetrafod. Osa 4, Lisanõuded ühitatud trafodele [Võrguteavik] = Instrument transformers. Part 4, Additional requirements for combined transformers (IEC 61869-4:2013)

2015 http://www.ester.ee/record=b4502348*est

National implementation challenges and support by ENTSO-E for European connection network codes

Urdal, Helge; Haesen, E.; **Kilter, Jako** 14th Workshop on Large-Scale Integration of Wind Power into Power Systems as well as on Transmission Networks for Offshore Wind Power Plants : 20-22 October 2015, Brussels, Belgium : proceedings 2015

National Implementation in Estonia of COMMISSION REGULATION (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators

Kilter, Jako 15th Wind Integration Workshop : International Workshop on Large-Scale Integration of Wind Power into Power Systems as well as on Transmission Networks for Offshore Wind Power Plants : 15-17 November 2016, Vienna, Austria 2016 / p. 1-6

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>

Novel gramian-based structure-preserving model order reduction for power systems with high penetration of power converters

de Morais Dias Campos, Nathalia; Sarnet, Tanel; Kilter, Jako IEEE transactions on power systems 2023 / p. 5381-5391 <https://doi.org/10.1109/TPWRS.2022.3228458> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nõuded jaotusvõrkudega paralleelselt ühendatud tootmisüksustele. Osa 2, Ühendus keskpingejaotusvõrguga.

Tootmisüksused kuni tüübini B (kaasa arvatud) [Võrguteavik] = Requirements for generating plants to be connected in parallel with distribution networks. Part 2, Connection to a MV distribution network. Generating plants up to and including Type B

2021 https://www.ester.ee/record=b5480840*est

Nõuded jaotusvõrkudega paralleelselt ühendatud tootmisüksustele. Osa 1, Ühendus madalpingejaotusvõrguga.

Tootmisüksused kuni tüübini B (kaasa arvatud) [Võrguteavik] = Requirements for generating plants to be connected in parallel with distribution networks. Part 1, Connection to a LV distribution network. Generating plants up to and including Type B

2021 https://www.ester.ee/record=b5428205*est

Online detection of out-of-step condition using PMU-determined system impedances

Tealane, Marko; Kilter, Jako; Popov, Marjan; Bagleybter, Oleg; Klaar, Danny IEEE Access 2022 / p. 14807-14818

<https://doi.org/10.1109/ACCESS.2022.3149103> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 placement of branch PMUs for specified redundancy and line observability

Tuttelberg, Kaur; Kilter, Jako 2015 IEEE Power & Energy Society General Meeting (PESGM 2015) : Denver, CO, USA, July 26-30, 2015 2015 / [5] p. : ill <http://dx.doi.org/10.1109/PESGM.2015.7286453>

Optimal reactive power control in a multi-machine thermal power plant

Trummal, Tarmo; Andreesen, Guido; Kilter, Jako 2020 21st International Scientific Conference on Electric Power Engineering (EPE), October 19-21, 2020, Prague, Czech Republic 2020 <https://doi.org/10.1109/EPE51172.2020.9269239>

Out-of-step protection based on discrete angle derivatives

Tealane, Marko; Kilter, Jako; Bagleybter, Oleg; Heimisson, Birkir; Popov, Marjan IEEE Access 2022 / p. 78290-78305

<https://doi.org/10.1109/ACCESS.2022.3193390> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phasor measurement units performance assessment during power system disturbances using real-time digital simulator

Trummal, Tarmo; Kilter, Jako; Löper, Mari; Palu, Ivo 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 / 8 p. : ill <https://doi.org/10.1109/PQ.2019.8818247>

Pingemuunduritega alalisvoolusüsteemide terminoloogia [Võrguteavik] = Terminology for voltage-sourced converters (VSC) for high-voltage direct current (HVDC) systems (IEC 62747:2014+IEC 62747:2014/A1:2019)

2020 https://www.ester.ee/record=b5352701*est

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

Predicting frequency disturbances from wide area monitoring of ambient power system dynamics

Tuttelberg, Kaur; Kilter, Jako 2018 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Sarajevo, Bosnia and Herzegovina, October 21-25, 2018 : proceedings 2018 / 6 p <https://doi.org/10.1109/ISGTEurope.2018.8571711>

Preliminary study on comparative load modelling in PSS/E and PSCAD

Leinakse, Madis; Kapp, Henry; 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. 197-199 : ill http://ise.elnet.ee/record=b2950110~S2*est

Presentation of the European project MIGRATE

Grasset, H.; Popov, M.; Zargar, B.; **Kilter, Jako** Eight Protection, Automation and Control (PAC) World Conference : Wroclaw, Poland, 27-29 June 2017 2017 / p. THA05, [6] p

Processing and filtering digital fault recorder events for load model estimation

Leinakse, Madis; Kilter, Jako 2021 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 8-21 October, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISGTEurope52324.2021.9640026>

Purtse hybrid power plant common plant controller algorithm

Sarnet, Tanel; Kilter, Jako 2023

Purtse hybrid power plant connection studies and Grid Code compliance assessment

Kilter, Jako; Sarnet, Tanel 2023

Purtse hybrid power plant PSCAD and PSS/E models

Kilter, Jako; Sarnet, Tanel 2023

Rahvusvaheline elektrotehnika sõnastik. Osa 321, Mõõtetrafod [Võrguteavik] = International Electrotechnical Vocabulary. Chapter 321, Instrument transformers (IEC 60050-321:1986)

2017 http://www.ester.ee/record=b4770371*est

Rahvusvaheline elektrotehnika sõnastik. Osa 421, Jõutrafod ja reaktorid [Võrguteavik] = International Electrotechnical Vocabulary. Chapter 421, Power transformers and reactors (IEC 60050-421:1990) / Eesti Standardikeskus

2017 http://www.ester.ee/record=b4751512*est

Rahvusvaheline elektrotehnika sõnastik. Osa 436, Jõukondensaatorid [Võrguteavik] = International Electrotechnical Vocabulary. Chapter 436, Power capacitors (IEC 60050-436:1990)

2017 http://www.ester.ee/record=b4770422*est

Rahvusvaheline elektrotehnika sõnastik. Osa 448, Elektrisüsteemi kaitse [Võrguteavik] = International Electrotechnical Vocabulary. Part 448, Power system protection (IEC 60050-448:1995)

2017 http://www.ester.ee/record=b4771190*est

Rahvusvaheline elektrotehnika sõnastik. Osa 614, Elektri tootmine, ülekandmine ja jaotamine. Käit [Võrguteavik] = International Electrotechnical Vocabulary (IEV). Chapter 614, Generation, transmission and distribution of electricity. Operation (IEC 60050-614:2016)

2017 http://www.ester.ee/record=b4751531*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 (EEEIC / I&CPS Europe), 12-15 June 2018 : conference proceedings 2018 / 5 p.: ill <https://doi.org/10.1109/EEEIC.2018.8493720>

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>

Reaktiivenergia tarbimise analüüs Tallinna Tehnikaülikooli hoonetes [Elektroniline publikatsioon]

Kangro, Triin; Kilter, Jako; Palu, Ivo 2015

Real-time estimation of transmission losses from PMU measurements

Tuttelberg, Kaur; Kilter, Jako IEEE PowerTech 2015 : Eindhoven, Holland, 29 June-02 July, 2015 2015 / [5] p. : ill <http://dx.doi.org/10.1109/PTC.2015.7232313>

Real-time testing of out-of-step protection devices

Tealane, Marko; Kilter, Jako; Põll, Krister 2021 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 8-21 October, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISGTEurope52324.2021.9640178>

Residential load harmonics in distribution grid

Niitsoo, Jaan; Palu, Ivo; Kilter, Jako; Taklaja, Paul; Vaimann, Toomas The 3rd International Conference on Electric Power and Energy Conversion Systems (EPECS 2013) : [proceedings] 2013 / p. 1-6 : ill

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>

Short-circuit wave transient measurements in HV power network

Kütt, Lauri; Kilter, Jako; Palu, Ivo 9th International Symposium "Topical problems in the field of electrical and power engineering". Doctoral school of energy and geotechnology. II : Pärnu, Estonia, June 14-19, 2010 2010 / p. 37-41 : ill

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>

Simulation models for power-quality studies in power-electronics rich power networks : Deliverable 5.2 [Online resource]

Božiček, Ambrož; Blažič, Boštjan; Špelko, Aljaž; **Sarnet, Tanel; Löper, Mari; Kilter, Jako** 2017 [Deliverable 5.2](#)

Smooth coordination and management of impact of EstLink 2 transmission testing on electricity markets, power system operations and system technical performance

Rauhala, T.; Laasonen, M.; **Kilter, Jako** CIGRE Session 2016 : 21-26 August 2016, Paris, France 2016 / p. 1-11

Solutions and active measures for wind power integration

Rosin, Argo; Drovtar, Imre; Kilter, Jako Large scale grid integration of renewable energy sources 2017 / p. 87-129 : ill <http://dx.doi.org/10.1049/PBPO098E>

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>

State estimation technique for distribution networks

Meldorf, Mati; Treufeldt, Ülo; Kilter, Jako PowerTech Conference proceedings : 27-30 June 2005, St.Petersburg 2005 / Paper 374, [5] p

Stochasticity of the electrical network load

Meldorf, Heiki; Täht, T.; Kilter, Jako Oil shale 2007 / 2S, p. 225-236 : ill <https://www.semanticscholar.org/paper/STOCHASTICITY-OF-THE-ELECTRICAL-NETWORK-LOAD-Meldorf-T%C3%A4ht/ba9fcafe43fd6d33cd09033fab4f277bd307785d>

Targale wind farm connection studies and Grid Code compliance assessment

Sarnet, Tanel; Kilter, Jako 2022

Tehnikaülikooli elektriala tudengid on Eesti parimad

Vaimann, Toomas; Kilter, Jako Elektriala 2021 / lk. 6-8 : ill https://www.ester.ee/record=b1240496*est

Temperature dependency of electrical network load

Meldorf, Mati; Treufeldt, Ülo; Kilter, Jako Oil shale 2007 / 2S, p. 237-247 : ill https://www.researchgate.net/publication/228631520_Temperature_dependency_of_electrical_network_load

Testing of PMU-based transmission loss monitoring application

Löper, Mari; Tuttelberg, Kaur; Kilter, Jako 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 121-124 : ill http://www.ester.ee/record=b4650094*est

The development and assessment of HVAC cable models for electrical transmission network planning studies =

Kõrgepingeliste kaabelliinide mudelite arendamine ja analüüs elektrivõrgu planeerimisülesannete raamistikus

Kangro, Triin 2018 <https://digi.lib.ttu.ee/ii/?11205> https://www.ester.ee/record=b5181775*est

A tool for model-order reduction of power systems with high penetration of power electronic devices

Campos, Nathalia de Moraes Dias; Kilter, Jako 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. 91-92 : ill https://www.ester.ee/record=b5504019*est

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

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](#)

Tugevoolupaigaldised nimivahelduvpingega üle 1 kV. Osa 1, Üldnõuded = Power installations exceeding 1 kV a.c. Part 1, Common rules (IEC 61936-1:2010, modified)
2011 https://www.ester.ee/record=b4279531*est

Type models of electrical network load
Meldorf, Mati; **Kilter, Jako** Oil shale 2009 / 3S, p. 243-253 : ill https://artiklid.elnet.ee/record=b1489919*est

Uncertainty propagation in PMU-based transmission line monitoring
Tuttelberg, Kaur; **Kilter, Jako** IET generation, transmission & distribution 2018 / p. 745-755 : ill <https://doi.org/10.1049/iet-gtd.2017.0244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Using demand side management in energy-intensive industries for providing balancing power – the Estonian case study
Drovtar, Imre; **Uuemaa, Priit;** **Rosin, Argo;** **Kilter, Jako;** **Valtin, Juhan** 2013 IEEE Power and Energy Society General Meeting (PES), Vancouver, Canada, 21-25 July 2013 : proceedings 2013 / [5] p.: ill <https://ieeexplore.ieee.org/document/6672418>

Uuenenud nõuded õhuliinidele. Standard EVS-EN 50341-2-20:2018
Kilter, Jako; **Metusala, Tiit;** **Raesaar, Peeter** Elektriala 2019 / lk. 22-23 : ill http://www.ester.ee/record=b1240496*est

Validation of full-converter wind power plant generic model based on actual fault ride-through measurements
Tšernobrovkin, Oleg; **Perdana, Abram;** **Palu, Ivo;** **Kilter, Jako** Journal of energy and power engineering 2010 / 4, p. 54-62

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

Weather dependency of corona losses on 330 kV overhead transmission lines
Gupta, Pradeep Kumar; **Tuttelberg, Kaur;** **Kilter, Jako** International journal of electrical power & energy systems 2024 / art. 109537 <https://doi.org/10.1016/j.ijepes.2023.109537>

Verification of a wind farm aggregated generic dynamic model based on a real fault ride-through test in the grid
Tšernobrovkin, Oleg; **Perdana, Abram;** **Palu, Ivo;** **Kilter, Jako** Proceedings of 5th Nordic Wind Power Conference 2009 2009 / [6] p <https://research.chalmers.se/en/publication/97817>

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

Wide-Area applications for enhancement of Estonian power system security
Kilter, Jako; **Reinson, Andrus** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 143-148 : ill <https://ieeexplore.ieee.org/abstract/document/6256218>

Wind park and transmission network cooperation considering Grid Code requirements
Kilter, Jako; **Dubbelman, Edgar;** **Palu, Ivo;** **Niitsoo, Jaan** Electrical and Control Technologies : proceedings of the the 7th International Conference on Electrical and Control Technologies ECT-2012 2012 / p. 183-188 : ill https://www.researchgate.net/publication/290252818_Wind_park_and_transmission_network_cooperation_considering_Grid_Code_requirements

Wind power integration in Estonia under planning contingencies
Tšernobrovkin, Oleg; **Kilter, Jako;** **Reinson, Andrus;** **Ülavere, Eero** 6th International Conference "2008 Power Quality and Supply Reliability" : August 27-29, 2008 : Pärnu, Estonia : conference proceedings 2008 / p. 113-118 : ill

Üle 1 kV nimivahelduvpingega tugevoolupaigaldiste maandamine = Earthing of power installations exceeding 1 kV a.c.
2011 https://www.ester.ee/record=b2743091*est

XgBoost based short-term electrical load forecasting considering trends & periodicity in historical data
Shabbir, Noman; **Ahmadiyahangar, Roya;** **Rosin, Argo;** **Jawad, Muhammad;** **Kilter, Jako;** **Martins, Joao** 2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2023 / 6 p <https://doi.org/10.1109/ETFG55873.2023.10407926>

