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

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**Keskimised jõutrafod 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.estr.ee/record=b4767645\\*est](http://www.estr.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.estr.ee/record=b4768187\\*est](http://www.estr.ee/record=b4768187*est)

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**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 koordinatsioon. 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.estr.ee/record=b2743110\\*est](https://www.estr.ee/record=b2743110*est)

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

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**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>

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

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**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

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Kilter, Jako 2009 [https://www.esther.ee/record=b2498170\\*est](https://www.esther.ee/record=b2498170*est)

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**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](#)

**Mõötetrafod. Osa 1, Voolutrafod = Instrument transformers. Part 1, Current transformers (IEC 60044-1:1996, modified)**  
2010 [https://www.esther.ee/record=b2646205\\*est](https://www.esther.ee/record=b2646205*est)

**Mõötetrafod. Osa 3, Lisanõuded induktiivpingetrafodele = Instrument transformers. Part 3, Additional requirements for inductive voltage transformers (IEC 61869-3:2011)**  
2012 [https://www.esther.ee/record=b2896163\\*est](https://www.esther.ee/record=b2896163*est)

**Mõötetrafod. Osa 4, Lisanõuded ühitatud trafodele [Võrguteavik] = Instrument transformers. Part 4, Additional requirements for combined transformers (IEC 61869-4:2013)**  
2015 [http://www.esther.ee/record=b4502348\\*est](http://www.esther.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

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**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.estr.ee/record=b5480840\\*est](https://www.estr.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.estr.ee/record=b5428205\\*est](https://www.estr.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**

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**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.estr.ee/record=b5352701\\*est](https://www.estr.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

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[http://ise.elnet.ee/record=b2950110~S2\\*est](http://ise.elnet.ee/record=b2950110~S2*est)

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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

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**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

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Kilter, Jako; Sarnet, Tanel 2023

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Kilter, Jako; Sarnet, Tanel 2023

Rahvusvaheline elektrotehnika sõnastik. Osa 321, Möötetrafod [Võrguteavik] = International Electrotechnical Vocabulary.

Chapter 321, Instrument transformers (IEC 60050-321:1986)

2017 [http://www.estr.ee/record=b4770371\\*est](http://www.estr.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.estr.ee/record=b4751512\\*est](http://www.estr.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.estr.ee/record=b4770422\\*est](http://www.estr.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.estr.ee/record=b4771190\\*est](http://www.estr.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.estr.ee/record=b4751531\\*est](http://www.estr.ee/record=b4751531*est)

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**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

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## Reaktiivenergia tarbimise analüüs Tallinna Tehnikaülikooli hoonetes [Elektroniline publikatsioon]

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

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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>

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**Tealane, Marko; Kilter, Jako; Pill, 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

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**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

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**Shabbir, Noman; Ahmadiahangar, Roya; Rosin, Argo; Astapov, Victor; Kilter, Jako** Telematique 2022  
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## **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](#)

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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>

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

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**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/ba9fcfca43fd6d33cd09033fab4f277bd307785d>

## **Targale wind farm connection studies and Grid Code compliance assessment**

Sarnet, Tanel; Kilter, Jako 2022

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