

Active power losses in Estonian power transmission network

Ainsaar, Karin Maria; Ülavere, Eero; Tammoja, Heiki; Valtin, Juhan 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. 112-117 : ill

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), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p <https://doi.org/10.1109/PQ.2019.8818245>

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.egyr.2023.09.160>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Šlenduhoov, 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

Causes of indefinite faults in Estonian 110 kV overhead power grid

Taklaja, Paul; Oidram, Rein; Niitsoo, Jaan; Palu, Ivo Oil shale 2013 / p. 225-243 : ill https://artiklid.elnet.ee/record=b2631741*est

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://digikogu.taltech.ee/et/item/b0c60eaf-b740-4df5-bead-0dd793d5e6c8>
https://www.ester.ee/record=b5491207*est

Determining the unknown faults of the HV overhead lines

Taklaja, Paul; Niitsoo, Jaan; Palu, Ivo Proceedings of the 13th International Scientific Conference Electric Power Engineering 2012 : EPE 2012 : Brno. Vol. 1 2012 / p. 187-192 : ill

Elektriõhuliinid vahelduvpingega üle 1 kV kuni 45 kV

Raesaar, Peeter; Metusala, Tiit 2008 https://www.ester.ee/record=b2379547*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)

2015 http://www.ester.ee/record=b4469147*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

Elektriõhuliinid vahelduvpingega üle 45 kV

Raesaar, Peeter; Metusala, Tiit; Tiigimägi, Eeli 2006 https://www.ester.ee/record=b2183367*est

Elektriõhuliinid vahelduvpingega üle 45 kV

Raesaar, Peeter; Metusala, Tiit; Tiigimägi, Eeli 2009 https://www.ester.ee/record=b2536964*est

Experiments with travelling wave transients for verification of suitability of sensor

Kütt, Lauri; Järvi, Jaan 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. 149-152 : ill

Fault detection and protection strategy for multi-terminal HVDC grids using wavelet analysis

Kaur, Jashandeep; Jayasooriya, Manilka; Iqbal, Muhammad Naveed; Daniel, Kamran; Shabbir, Noman; Peterson, Kristjan Energies 2025 / art. 1147 <https://doi.org/10.3390/en18051147>

Forecasting Corona Losses on High Voltage Transmission Lines Using Machine Learning

Gupta, Pradeep Kumar; Tuttelberg, Kaur; Kilter, Jako IEEE transactions on power delivery 2025 / p. 2696-2705
<https://doi.org/10.1109/TPWRD.2025.3593923>

High-voltage auxiliary power supply with the simplified power circuit topology for the DC trains [Electronic resource]

Vinnikov, Dmitri; Laugis, Juhan Proceedings of the 9th International Conference "Electrical Power Quality and Utilisation" :

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

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
https://www.researchgate.net/publication/290247556_Influence_of_electric_railway_system_on_voltage_unbalance_distribution_between_high_voltage_and_low_voltage_electrical_networks

Insulation durability and measurement of partial discharge = Isolatsiooni vastupidavus ja osalahenduste mõõtmine

Kiitam, Ivar 2021 https://www.ester.ee/record=b5473274*est <https://digikogu.taltech.ee/et/Item/401e6d0b-f51d-488f-b0d6-2e2bdb8f9496>
<https://doi.org/10.23658/taltech.62/2021>

Investeeringud kõrge- ja keskpinge võrku tagavad jätkusuutliku arengu

Pajo, Raine Elektriala 2004 / 4, lk. 7-9 : ill

Kõrgepinge katsetehnika

Oidram, Rein; Metusala, Tiit 2009 https://www.ester.ee/record=b2466686*est

Kõrgepinge katsetehnika

Metusala, Tiit; Oidram, Rein 2008 https://www.ester.ee/record=b2462038*est

Kõrgepinge katsetehnika. Osa 1, Üldised määratlused ja katsenõuded = High-voltage test techniques. Part 1, General definitions and test requirements (IEC 60060-1:2010)

2013 https://www.ester.ee/record=b2931355*est

Kõrgepinge tehniline komitee on loodud

Oidram, Rein EVS Teataja 2002 / 11, lk. 6-7

Kõrgepingejaotla ja juhtimisaparatuur

Treufeldt, Ülo; Oidram, Rein 2009 https://www.ester.ee/record=b2466690*est

Kõrgepingejaotla ja juhtimisaparatuur. Osa 103, Vahelduvvoolu koormuslülitid nimipingetele üle 1 kV kuni 52 kV kaasaarvatult = High-voltage switchgear and controlgear. Part 103, Alternating current switches for rated voltages above 1 kV up to and including 52 kV (IEC 62271-103:2021)

2024 https://www.ester.ee/record=b5654231*est

Kõrgepingejaotla ja juhtimisaparatuur. Osa 108, Kõrgepinge vahelduvvoolu lahk-võimsuslülitid nimipingetele üle 52 kV [Vörguteavik] = High-voltage switchgear and controlgear. Part 108, High-voltage alternating current disconnecting circuit-breakers for rated voltages above 52 kV (IEC 62271-108:2020)

2021 https://www.ester.ee/record=b5412986*est

Kõrgepingeliinide lühisekoha määramisest

Dorovatovski, Nikolai; Mikk, Arvi Elektriala 2004 / 2, lk. 23-25 : ill

Kõrgepingeline lülitus- ja juhtimisaparatuur. Osa 1, Vahelduvvoolu lülitus- ja juhtimisaparatuuri üldliigitus [Vörguteavik] = High-voltage switchgear and controlgear. Part 1, Common specifications for alternating current switchgear and controlgear (IEC 62271-1:2017/AMD1:2021)

2022 https://www.ester.ee/record=b5485887*est

Kõrgepingeline lülitus- ja juhtimisaparatuur. Osa 1, Vahelduvvoolu lülitus- ja juhtimisaparatuuri üldliigitus [Vörguteavik] = 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

Main bird excrement contamination type causing insulator flashovers in 110 kV overhead power lines in Estonia

Taklaja, Paul; Oidram, Rein; Niitsoo, Jaan; Palu, Ivo Oil shale 2013 / p. 211-224 : ill https://artiklid.elnet.ee/record=b2631738*est
<https://doi.org/10.3176/oil.2013.2S.03> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Measurement and data communication technology for the implementation in Estonian transmission network = Mõõte- ja andmesidetehnoloogia uurimine ja rakendamine Eesti kõrgepinge ülekandevõrgus

Mets, Igor 2013 https://www.ester.ee/record=b3046254*est

Method for line current shape forming in ac-dc power supplies

Janson, Kuno; Järvik, Jaan; Šklovski, Jevgeni 5th International Conference : Electric Power Quality and Supply Reliability : August 23-26, 2006, Viimsi, Estonia : conference proceedings 2006 / p. 27-34 : ill

110 kV õhuliinide isolatsiooni töökindluse analüüs ja töökindluse tõstmise meetodid = The study of 110 kV power grid reliability and the measures to decrease insulation failure

Taklaja, Paul 2012 http://www.ester.ee/record=b2857612*est

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

Soome ekspert: hirmud kõrgepingeliinide mõju pärast on alusetud

Käärt, Ulvar; Metusala, Tiit Eesti Päevaleht 2008 / 15. mai, lk. 7 <https://epi.delfi.ee/artikkel/51129622/soome-ekspert-hirmud-korkepingeliinide-moju-parast-on-alusetud>

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

The study of discharge characteristics of medium voltage overhead line insulators

Taklaja, Paul; Annus, Aleksander; Oidram, Rein 5th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology : Kuressaare, January 14-19, 2008 2008 / p. 24-27 : ill

Tugevvolupaigaldised nimivahelduvpingega üle 1 kV

Mällo, Rein; Risthein, Endel; Oidram, Rein; Kūbarsepp, Arvo 2002 https://www.ester.ee/record=b1686696*est

Tugevvolupaigaldised nimivahelduvpingega üle 1 kV ja alalispingega üle 1,5 kV. Osa 2, Alalispinge = Power installations exceeding 1 kV AC and 1,5 kV DC. Part 2, DC (IEC 61936-2:2023)

2025 https://www.ester.ee/record=b5731284*est

Tugevvolupaigaldised nimivahelduvpingega üle 1 kV ja alalispingega üle 1,5 kV. Osa 1, Vahelduvpinge [Võrguteavik] = Power installations exceeding 1 kV AC and 1,5 kV DC. Part 1, AC (IEC 61936-1:2021)

2021 https://www.ester.ee/record=b5477122*est

Tugevvolupaigaldised 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

Uuenenud standardisari EVS-EN 50341 "Elektriõhuliinid vahelduvpingega üle 1 kV"

Metusala, Tiit Elektriala 2015 / lk. 30-31 : ill https://artiklid.elnet.ee/record=b2725545*est

Vananevaid elektisüsteeme saaks senisest mõistlikumalt uuendada

Mente et Manu 2022 / lk. 44-45 : fot https://www.ester.ee/record=b1242496*est

Üle 1 kV nimivahelduvpingega tugevvolupaigaldiste maandamine = Earthing of power installations exceeding 1 kV a.c.

2011 https://www.ester.ee/record=b2743091*est

Üle 1kV nimivahelduvpingega tugevvolupaigaldiste maandamine = Earthing of power installations exceeding 1 kV a.c

2022 https://www.ester.ee/record=b5506153*est

Üle 1kV nimivahelduvpingega tugevvolupaigaldiste maandamine = Earthing of power installations exceeding 1 kV a.c.

2024 https://www.ester.ee/record=b5719878*est

Üle 1kV nimivahelduvpingega tugevvolupaigaldiste maandamine = Earthing of power installations exceeding 1 kV a.c.

2024 https://www.ester.ee/record=b5719879*est

Выбор рациональной конструкции управляемого реактора 525 кВ 180 МВА

Tellinen, Juhan; Järvik, Jaan Симпозиум "Эффективность применения управляемых реакторов в энергосистемах", 14-16 нояб. 1989 г. : тезисы докладов 1989 / с. 30-31

Высокочастотное преобразование сетевого напряжения

Pikkov, Otto Проблемы моделирования полупроводниковых структур и сложных схем на ЭВМ 1982 / с. 83-92 : ил
https://www.ester.ee/record=b1339926*est <https://www.etera.ee/zoom/121726/view?page=3&p=separate&search=true&tool=search>

Исследование схемы контроля стеклянных изоляторов в непрерывном потоке ИСКР

Annus, Aleksander; Grossman, Otto; Metusala, Tiit; Oidram, Rein; Tapupere, Olev Энергетические системы : сборник статей. 5 1974 / с. 77-86 : илл https://www.ester.ee/record=b2190662*est <https://digikogu.taltech.ee/et/Item/11c437c8-2c10-4297-aa20-712c96721051>

Ожидаемые технико-экономические показатели насыщающихся реакторов 525 кВ 180 МВА и 1150 кВ 1000 МВА
Pool, Ain-Matt; Vladislavlev, Mihhail; Tellinen, Juhan; Järvi, Jaan Симпозиум "Эффективность применения управляемых реакторов в энергосистемах", 14-16 нояб. 1989 г. : тезисы докладов 1989 / с. 24-25

Ожидаемые технико-экономические показатели управляемых и насыщающихся реакторов для ЛЭП сверхвысокого напряжения

Sepping, Eino; Tellinen, Juhan; Järvi, Jaan Тезисы докладов конференции по теме "Шунтирующие и компенсирующие реакторы высокого напряжения" 1984 / с. 18-19

Перспективы применения статического компенсатора реактивной мощности в энергосистеме с высоким напряжением

Sepping, Eino; Tellinen, Juhan; Järvi, Jaan Тезисы докладов Всесоюзной научной конференции "Снижение потерь в электроэнергетических системах" 1984 / с. 41-43

Перспективы создания управляемого реактора на номинальное напряжение 1150 кВ мощностью 500-1000 МВА
Biki, Mengert; Järvi, Jaan Симпозиум "Эффективность применения управляемых реакторов в энергосистемах", 14-16 нояб. 1989 г. : тезисы докладов 1989 / с. 7-10

Технико-экономические показатели насыщающегося реактора 3300 кВА, 10 кВ

Vladislavlev, Mihhail; Pool, Ain-Matt; Vinnal, Toomas; Järvi, Jaan; Tellinen, Juhan Симпозиум "Эффективность применения управляемых реакторов в энергосистемах", 14-16 нояб. 1989 г. : тезисы докладов 1989 / с. 32-33

Управляемые и насыщающиеся реакторы для ЛЭП сверхвысокого напряжения

Sepping, Eino; Tellinen, Juhan; Nešatajev, Vassili; Järvi, Jaan Управляемые электропередачи 1986 / с. 82-92
https://www.ester.ee/record=b2928126*est