

Comparison of district heating supply options for different CHP configurations

Rušeljuk, Pavel; Dedov, Andrei; Hlebnikov, Aleksandr; Lepiksaar, Kertu; Volkova, Anna *Energies* 2023 / art. 603, 14 p. : ill
<https://doi.org/10.3390/en16020603> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Economic dispatch of CHP units through District Heating Network's demand-side management

Rušeljuk, Pavel; Lepiksaar, Kertu; Siirde, Andres; Volkova, Anna *Energies* 2021 / art. 4553, 20 p. : ill
<https://doi.org/10.3390/en14154553> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Eesti teadlased pakkusid välja kaugkütte taaskasutuse : soojust saab saata «uuele ringile» [Võrguväljaanne]

Lepiksaar, Kertu; Poom, Siim *postimees.ee* 2022 [Eesti teadlased pakkusid välja kaugkütte taaskasutuse: soojust saab saata «uuele ringile»](#)

Eestis kaitstud doktoritöö pakub uusi lahendusi, mis ei lase elektrit ega soojust raisata

Lepiksaar, Kertu *postimees.ee* 2024 [Eestis kaitstud doktoritöö pakub uusi lahendusi, mis ei lase elektrit ega soojust raisata](#)
<https://digikogu.taltech.ee/et/Item/1bf329b0-baf7-4581-866e-fbc147c44d6c>

Eestis kaitstud doktoritöö pakub uusi lahendusi, mis ei lase elektrit ja soojust raisata

Lepiksaar, Kertu *postimees.ee* 2024 [Eestis kaitstud doktoritöö pakub uusi lahendusi, mis ei lase elektrit ja soojust raisata](#)

The effect of the district heating return temperature reduction on flue gas condenser efficiency

Lepiksaar, Kertu; Volkova, Anna; Rušeljuk, Pavel; Siirde, Andres *Environmental and Climate Technologies* 2020 / p. 23–38
<https://doi.org/10.2478/rtuct-2020-0083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effects of coupling combined heat and power production with district cooling

Lepiksaar, Kertu; Mašatin, Vladislav; Krupenski, Igor; Volkova, Anna *Energies* 2023 / art. 4552
<https://doi.org/10.3390/en16124552> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Efficient use of heat from CHP distributed by district heating system in district cooling networks

Pieper, Henrik; Kirs, Tanel; Krupenski, Igor; Ledvanov, Aleksandr; Lepiksaar, Kertu; Volkova, Anna *Energy reports* 2021 / p. 47–54
<https://doi.org/10.1016/j.egyr.2021.09.041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy cascade connection of a low-temperature district heating network to the return line of a high-temperature district heating network

Volkova, Anna; Krupenski, Igor; Ledvanov, Aleksandr; Hlebnikov, Aleksandr; Lepiksaar, Kertu; Latõšov, Eduard; Mašatin, Vladislav *Energy* 2020 / art. 117304, 15 p. : ill <https://doi.org/10.1016/j.energy.2020.117304> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Factors affecting the improvement of district heating. Case studies of Estonia and Serbia

Rušeljuk, Pavel; Volkova, Anna; Lukic, Nebojša; Lepiksaar, Kertu; Nikolic, Novak; Nešovic, Aleksandar; Siirde, Andres *Environmental and Climate Technologies* 2021 / p. 521–533 <https://doi.org/10.2478/rtuct-2020-0121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

5th generation district heating and cooling (5GDHC) implementation potential in urban areas with existing district heating systems

Volkova, Anna; Pakere, Ieva; Murauskaite, Lina; Huang, Pei; Lepiksaar, Kertu; Zhang, Xinxing *Energy reports* 2022 / p. 10037–10047
<https://doi.org/10.1016/j.egyr.2022.07.162> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

GIS-based approach to identifying potential heat sources for heat pumps and chillers providing district heating and cooling

Pieper, Henrik; Lepiksaar, Kertu; Volkova, Anna *International Journal of Sustainable Energy Planning and Management* 2022 / p. 29–44
<https://doi.org/10.54337/ijsepm.7021> [Journal metrics at Scopus](#) [Article at Scopus](#)

Gümnasistid võtsid mõõtu energiatehnoloogia erialavõistlustel

Lepiksaar, Kertu; Kelder, Kristiina Angela Mente et Manu 2022 / lk. 40–41 : fot https://www.ester.ee/record=b1242496*est

Heat pump potential in the Baltic States

Volkova, Anna; Pieper, Henrik; Koduvere, Hardi; Lepiksaar, Kertu; Siirde, Andres 2021
<https://pub.norden.org/nordicenergyresearch2021-02/>

Heat pump use in rural district heating networks in Estonia

Lepiksaar, Kertu; Kalme, Kiur; Siirde, Andres; Volkova, Anna *Environmental and climate technologies* 2021 / p. 786–802
<https://doi.org/10.2478/rtuct-2021-0059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improving CHP flexibility by integrating thermal energy storage and power-to-heat technologies into the energy system

Lepiksaar, Kertu; Mašatin, Vladislav; Latõšov, Eduard; Siirde, Andres; Volkova, Anna *Smart energy* 2021 / art. 100022
<https://doi.org/10.1016/j.segy.2021.100022>

Jahutus tundub lõunamaades oluline, aga miks vajab kaugjahutust Eesti? [Võrguväljaanne]

Lepiksaar, Kertu; Poom, Siim postimees.ee 2022 [Jahutus tundub lõunamaades oluline, aga miks vajab kaugjahutust Eesti?](https://doi.org/10.54337/ijsepm.7011)
<https://doi.org/10.54337/ijsepm.7011>

Jätkusuutlik kaugküte : digitaalne õpik

Volkova, Anna; Latõšov, Eduard; Mašatin, Vladislav; Krupenski, Igor; Siirde, Andres 2022

<https://digikogu.taltech.ee/et/Item/5dd01aa2-609e-40ee-9927-4b708315faa1> https://www.ester.ee/record=b5491563*est

Kaugjahutus tundub lõunamaades oluline, aga miks vajab seda Eesti? [Võrguväljaanne]

Lepiksaar, Kertu ehitusuudised.ee 2022 [Kaugjahutus tundub lõunamaades oluline, aga miks vajab seda Eesti?](https://www.ehitusuudised.ee/kaugjahutus-tundub-lõunamaades-oluline-aga-miks-vajab-seda-eesti/)

Multi-source district heating system full decarbonization strategies: Technical, economic, and environmental assessment

Pakere, Ieva; Feofilovs, Maksims; Lepiksaar, Kertu; Vītoliņš, Valdis; Blumberga, Dagnija Energy 2023 / art. 129296

<https://doi.org/10.1016/j.energy.2023.129296> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimizing solar energy integration in Tallinn's district heating and cooling systems

Lepiksaar, Kertu; Kajandi, G-M.; Sukumaran, Sreenath; Krupenski, Igor; Kirs, Tanel; Volkova, Anna Smart Energy 2025 / art.

100166 <https://doi.org/10.1016/j.segy.2024.100166>

Osale teadusprojekti! Eesti teadlased uurivad, mis takistab inimestel energiat säästmast

Serka-Sanchez, Helen ohtuleht.ee 2023 [Osale teadusprojekti! Eesti teadlased uurivad, mis takistab inimestel energiat säästmast](https://www.ohtuleht.ee/2023/09/08/osale-teadusprojekti-eesti-teadlased-uurivad-mis-takistab-inimestel-energiat-saastmast/)

Planning of district heating regions in Estonia

Volkova, Anna; Latõšov, Eduard; Lepiksaar, Kertu; Siirde, Andres International journal of sustainable energy planning and

management 2020 / p. 5–16 : ill <https://doi.org/10.5278/ijsepm.3490> [Journal metrics at Scopus](#) [Article at Scopus](#)

Smart Energy System efficiency improvement through combined heat and power production flexibility = Targa energiasüsteemi efektiivsuse parendamine läbi koostootmise paindlikkuse tõstmise

Lepiksaar, Kertu 2024 https://www.ester.ee/record=b5685162*est <https://digikogu.taltech.ee/et/Item/1bf329b0-baf7-4581-866e-fbc147c44d6c>

<https://doi.org/10.23658/taltech.24/2024>

Tehnikaülikool ootab õppima eriti insenere ja energeetikuid

Mariste, Külli; Lepiksaar, Kertu pealinn.ee 2024 [Tehnikaülikool ootab õppima eriti insenere ja energeetikuid](https://www.pealinn.ee/tehnikaulikool-ootab-oppima-eriti-insenere-ja-energeetikuid/)

Tehnikaülikooli teadlased tahavad teada, mis takistab meil energiat säästa

Lepiksaar, Kertu postimees.ee 2023 <https://teadus.postimees.ee/7729599/tehnikaulikooli-teadlased-tahavad-teada-mis-takistab-meil-energiat-saasta>

Transition towards university campus carbon neutrality by connecting to city district heating network

Hiltunen, Pauli; Volkova, Anna; Latõšov, Eduard; Lepiksaar, Kertu; Syri, Sanna Energy reports 2022 / p. 9493-9505

<https://doi.org/10.1016/j.egy.2022.07.055> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uuring: Balti riikide looduslikud ja tööstuslikud soojusallikad on alakasutatud

Mente et Manu 2021 / lk. 13 https://www.ester.ee/record=b1242496*est

Valorisation of waste heat in existing and future district heating systems

Pakere, Ieva; Blumberga, Dagnija; Volkova, Anna; Lepiksaar, Kertu; Zirne, Agate Energies 2023 / art. 6796

<https://doi.org/10.3390/en16196796> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)