

Analysing Lagrangian timescales in the Gulf of Finland

Viikmäe, Bert; Torsvik, Tomas The 11th Baltic Sea Science Congress "Living Along Gradients : Past, Present, Future" : June 12-16, 2017 : abstracts 2017 / p. 46 https://www.io-warnemuende.de/tl_files/conference/bssc2017/bssc2017-abstract-book.pdf

Analysis of the performances of hyperspectral lidar for water pollution diagnostics

Sobolev, Innokenti; Babichenko, Sergey EARSeL eProceedings 2013 / p. 113-123 : ill

Applicability of a bioelectronic cardiac monitoring system for the detection of biological effects of pollution in bioindicator species in the Gulf of Finland

Kholodkevich, Sergei; Kuznetsova, Tatiana; Sharov, Andrey; Kurakin, Anton; **Lips, Urmas**; **Kolesova, Natalja**; Lehtonen, Kari K. Journal of marine systems 2017 / p. 151-158 : ill <https://doi.org/10.1016/j.jmarsys.2016.12.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of a hydrodynamic model to long-term monitoring data : exploring transport pathways to identify the source of high toxicity populations of *Dinophysis fortii* in aquaculture sites in northern Japan

Miyazono, Akira; Kuribayashi, Takanori; Hada, Yasufumi; Asakura, Ken; Kobayashi, Kazuma; Mizuno, Katsuhiko; Lum, Wai Mun; **Sildever, Sirje**; Kuroda, Hiroshi; Nagai, Satoshi Harmful Algae 2025 / art. 102976 <https://doi.org/10.1016/j.hal.2025.102976>

Application of the wavelet transform for feature extraction in the analysis of hyperspectral laser-induced fluorescence data

Sobolev, Innokenti; Babichenko, Sergey International journal of remote sensing 2013 / p. 7218-7235 : ill

<https://doi.org/10.1080/01431161.2013.817714> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assessing the eutrophication status of Estonian marine waters

Stoicescu, Stella-Theresa; **Lips, Urmas**; **Lips, Inga** Фундаментальная и прикладная гидрофизика 2018 / с. 62-74

<https://doi.org/10.7868/S2073667318020053> http://hydrophysics.info/wp-content/uploads/2018/06/Stoicescu_%D0%B0.pdf [Journal metrics at Scopus](#) [Article at Scopus](#)

Characteristic properties of different vessel wake signals

Didenkulova, Irina; Sheremet, Alex; **Torsvik, Tomas**; **Soomere, Tarmo** Journal of coastal research 2013 / p. 213-218 : ill

<https://doi.org/10.2112/SI65-037> <https://bioone.org/journals/journal-of-coastal-research/volume-65/issue-sp1/SI65-037.1/Characteristic-properties-of-different-vessel-wake-signals/10.2112/SI65-037.1.short> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Concluding remarks

Soomere, Tarmo Preventive methods for coastal protection : towards the use of ocean dynamics for pollution control 2013 / p. 417-420

Data assimilation of sea surface temperature and salinity using basin-scale reconstruction from empirical orthogonal functions : a feasibility study in the northeastern Baltic Sea

Zujev, Mihhail; **Elken, Jüri**; **Lagemaa, Priidik** Ocean science 2021 / p. 91–109 : ill <https://doi.org/10.5194/os-17-91-2021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Deeper insights into the validation of hydrodynamic models using a synergy of remote sensing data

Delpeche-Ellmann, Nicole Camille; **Varbla, Sander**; **Jahanmard, Vahidreza**; **Ellmann, Artu** Baltic Earth Workshop Climate projections and uncertainties in the northern Baltic Sea region, Helsinki, Finland, 19-20 November, 2019 : Programme, Abstracts, Participants 2019 / p. 14-15

Demonstration of annual/quarterly assessments and description of the production system

Lips, Urmas; **Samlas, Oliver**; Korabel, Vasily; She, Jun; **Stoicescu, Stella-Theresa**; Cusack, Caroline 2022

https://doi.org/10.3289/eurosea_d6.2

Development of a common toolbox to validate forecast products and reanalysis within the Baltic CMEMS group

Jandt, Simon; **Verjovkina, Svetlana**; **Lagemaa, Priidik**; Lorkowski, Ina; Schenk, Ludwig; Janssen, Frank; Kärnä, Tuomas; Axell, Lars; Falahat, Saeed; Huess, Vibeke; Golbeck, Inga; Nord, Adam Abstracts : [BSSC 2019] 2019 / p. 303 https://www.su.se/polopoly_fs/1.446756.1566224624!/menu/standard/file/abstracts_A5_ny.pdf

Development of benthic monitoring strategies in the Baltic Sea

Nygard, Henrik; Lindegarth, Mats; Darr, Alexander; Dinesen, Grete E.; Eigaard, Ole R.; **Lips, Inga** Abstracts : [BSSC 2019] 2019 / p. 309 https://www.su.se/polopoly_fs/1.446756.1566224624!/menu/standard/file/abstracts_A5_ny.pdf

DNA metabarcoding: Guidelines to monitor phytoplankton diversity and distribution in marine and brackish waters

Jerney, Jacqueline; Hällfors, Heidi; Jakobsen, Hans; Jurgensone, Iveta; Karlson, Bengt; Kremp, Anke; Lehtinen, Sirpa; Majaneva, Markus; Meissner, Kristian; Norros, Veera; **Sildever, Sirje**; Suikkanen, Sanna; Teeveer, Karolin 2023 <http://https://www.norden.org/en/publication/dna-metabarcoding> <https://doi.org/10.6027/temanord2023-505>

Eesti mereala katmine nutipõide superjaamadega aitaks hõlpsasti tuvastada reostust ja hoiatada sinivetika eest

rohe.geenius.ee 2023 [Eesti mereala katmine nutipoide superjaamadega aitaks hõlpsasti tuvastada reostust ja hoiatada sinivetika eest](#)

Eesti teadlaste abiga saab nüüd Läänemere seisundist täpsema ülevaate

novaator.err.ee 2025 <https://novaator.err.ee/1609722801/eesti-teadlaste-abiga-saab-nuud-laanemere-seisundist-tapsema-ulevaate>

Eesti teadlaste uus süsteem ennustab lekkivate laevavrakkide kahju = Estonian scientists develop new shipwreck pollution prediction system

Harrik, Airika novaator.err.ee 2023 [Eesti teadlaste uus süsteem ennustab lekkivate laevavrakkide kahju](#) [Estonian scientists develop new shipwreck pollution prediction system](#)

Euro-Argo in work and new potential of gliders in the Baltic Sea BOOS [Online resource]

Alenius, Pekka; Tikka, K.; **Lips, Urmas**; Tuomi, Laura; Purokoski, Tero; Roiha, Petra; Siirä, S. Operational oceanography serving sustainable marine development : Proceedings of the Eighth EuroGOOS International Conference, 3-5 October 2017, Bergen, Norway 2018 / p. 143-148 : ill <http://eurogoos.eu/download/publications/EuroGOOS-2017-Conference-Proceedings.pdf>

Euro-Argo in work and new potential of gliders in the Baltic Sea BOOS [Online resource]

Alenius, Pekka; Tikka, Kimmo; **Lips, Urmas** International Conference Operational Oceanography Serving Sustainable Marine Development : 3-5 October 2017, Bergen, Norway : book of abstracts 2017 / p. 19-20 http://eurogoos.imr.no/resources/EuroGOOS_Conference_2017_BoA.pdf

Examining coastal upwellings from a Lagrangian perspective in the Gulf of Finland, Baltic Sea

Delpeche-Ellmann, Nicole Camille; Mingelaite, Toma; Soomere, Tarmo Geophysical research abstracts 2017 / p. EGU2017-18648 <https://meetingorganizer.copernicus.org/EGU2017/EGU2017-18648.pdf>

Examining Lagrangian surface transport during a coastal upwelling in the Gulf of Finland, Baltic Sea

Delpeche-Ellmann, Nicole Camille; Mingelaite, Toma; Soomere, Tarmo Journal of marine systems 2017 / p. 21-30 : ill <https://doi.org/10.1016/j.jmarsys.2016.10.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Examining the role of bottom topography on coastal upwelling jets using a synergy of in-situ, satellite and model data in the Gulf of Finland, Baltic Sea

Delpeche-Ellmann, Nicole Camille; Döös, Kristofer; Viikmäe, Bert; Soomere, Tarmo Geophysical research abstracts 2018 / p. EGU2018-15364 <https://meetingorganizer.copernicus.org/EGU2018/EGU2018-15364.pdf>

Fast shoreline erosion induced by ship wakes in a coastal lagoon : field evidence and remote sensing analysis

Zaggia, Luca; Lorenzetti, Giuliano; Manfè, Giorgia; **Soomere, Tarmo** PLoS ONE 2017 / art. e0187210, p. 1-23 : ill <https://doi.org/10.1371/journal.pone.0187210> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

FerryBoxes within Europe : state-of-the-art and integration in the European Ocean Observation System (EOOS) [Online resource]

Petersen, W.; Colijn, F.; Goringe, P.; Kaitala, S.; Karlson, B.; King, A.; **Lips, Urmas** Operational oceanography serving sustainable marine development : proceedings of the Eighth EuroGOOS International Conference, 3-5 October 2017, Bergen, Norway 2018 / p. 63-70 : ill <http://eurogoos.eu/download/publications/EuroGOOS-2017-Conference-Proceedings.pdf>

High resolution TSM mapping of dredging operations using automated UAV activated by online in situ measurements : proof on concept

Rikka, Sander; Kõuts, Tarmo; Pärt, Siim; Vahter, Kaimo The 11th Baltic Sea Science Congress "Living Along Gradients : Past, Present, Future" : June 12-16, 2017 : abstracts 2017 / p. 83 https://www.io-warnemuende.de/tl_files/conference/bssc2017/bssc2017-abstract-book.pdf

Impact of horizontal eddy-diffusivity on Lagrangian statistics for coastal pollution from a major marine fairway

Viikmäe, Bert; Torsvik, Tomas; Soomere, Tarmo Ocean dynamics 2013 / p. 589-597 : ill <https://doi.org/10.1007/s10236-013-0615-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Kosmosest merele vaadates ehk mida sealt on näha ja mis on peidetud

Elken, Jüri Horisont 2013 / lk. 50-55 : ill https://artiklid.elnet.ee/record=b2618320*est

Külm on Läänemerest juba veerandi jääteki alla surunud

Raudvere, Rein-Erich maaleht.ee 2024 [Külm on Läänemerest juba veerandi jääteki alla surunud](#)

Labor, kust algab puhtam meri

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/labor-kust-algab-puhtam-meri/>

Mere seisundi parandamine maksab üle 46 miljoni euro

jarvateataja.postimees.ee 2023 [Mere seisundi parandamine maksab üle 46 miljoni euro](#)

Mereseire telekommunikatsioonisüsteemid

Mitmekihiline mereuurimine

Lips, Urmas Horisont 2021 / lk. 36-40 : fot https://www.ester.ee/record=b1072243*est

A multivariate-multistep-ahead forecasting of dynamic topography using convolutional encoder-decoder network in the Baltic Sea

Rajabi Kiasari, Saeed; **Delpeche-Ellmann, Nicole Camille; Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 / 1 p <https://doi.org/10.57757/IUGG23-1664>

Natural sound estimation in shallow water near shipping lanes

Mustonen, Mirko; Klauson, Aleksander; Folegot, Thomas; Clorennec, Dominique The Journal of the Acoustical Society of America 2020 / p. 177-183 <https://doi.org/10.1121/10.0000749> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On the turbidity dynamics in the near-bottom layer of the Gulf of Finland

Buschmann, Fred; Suhhova, Irina; Liblik, Taavi; Lips, Urmas The 11th Baltic Sea Science Congress "Living Along Gradients : Past, Present, Future" : June 12-16, 2017 : abstracts 2017 / p. 16 https://www.io-warnemuende.de/tl_files/conference/bssc2017/bssc2017-abstract-book.pdf

On underwater data centers : surveillance, monitoring, and environmental management in the Baltic Sea

Abner, Mark; Bauk, Sanja Journal of information technology and applications 2024 / p. 142-149 <https://doi.org/10.7251/JIT2402142A>

Operational in situ oil spill detection in the Baltic sea using FerryBox system equipped with oil sensor

Pärt, Siim; Kõuts, Tarmo; Vahter, Kaimo 7th IEEE/OES Baltic Symposium Clean and Safe Baltic Sea and Energy Security for the Baltic countries : Abstract book, 12-15 June 2018, Klaipėda, Lithuania 2018 / p. 51 http://apc.ku.lt/balticvalley/baltic2018/wp-content/uploads/2018/06/abstract-book_7th_Baltic-Symposium_20180528.pdf

Operational in situ oil spill detection in the Baltic Sea, using FerryBox system equipped with oil sensor [Online resource]

Kõuts, Tarmo; Pärt, Siim; Vahter, Kaimo International Conference Operational Oceanography Serving Sustainable Marine Development : 3-5 October 2017, Bergen, Norway : book of abstracts 2017 / p. 50 http://eurogoos.imr.no/resources/EuroGOOS_Conference_2017_BoA.pdf

Operational wave height monitoring using navigation buoys and marine radars in the Baltic Sea [Online resource]

Kõuts, Tarmo; Rikka, Sander; Käärmann, Leo; Usk, Aivar International Conference Operational Oceanography Serving Sustainable Marine Development : 3-5 October 2017, Bergen, Norway : book of abstracts 2017 / p. 21 http://eurogoos.imr.no/resources/EuroGOOS_Conference_2017_BoA.pdf

Operational wave height monitoring using navigation buoys and marine radars in the Baltic Sea [Online resource]

Kõuts, Tarmo; Rikka, Sander; Käärmann, Leo; Usk, Aivar Operational oceanography serving sustainable marine development : Proceedings of the Eighth EuroGOOS International Conference, 3-5 October 2017, Bergen, Norway 2018 / p. 157-163 : ill <http://eurogoos.eu/download/publications/EuroGOOS-2017-Conference-Proceedings.pdf>

Preface

Soomere, Tarmo; Quak, Ewald Preventive methods for coastal protection : towards the use of ocean dynamics for pollution control 2013 / p. xi-xii

Properties of in-situ Lagrangian surface drifters and the relationship with Stokes drift in the Baltic Sea

Delpeche-Ellmann, Nicole Camille; Giudici, Andrea Journal of coastal research 2024 / p. 417-421 <https://doi.org/10.2112/JCR-SI113-082.1>

Püsiv jääkate jäi sooja talve tõttu Läänemerele tulemata

Kõuts, Mariliis; Uiboupin, Rivo novaator.err.ee 2025 <https://novaator.err.ee/1609633382/pusiv-jaakate-jai-sooja-talve-tottu-laanemerel-tulemata>

Real time in situ oil-spill monitoring using FerryBox system equipped with UV-fluorometer

Pärt, Siim; Kõuts, Tarmo; Vahter, Kaimo The 11th Baltic Sea Science Congress "Living Along Gradients : Past, Present, Future" : June 12-16, 2017 : abstracts 2017 / p. 333 https://www.io-warnemuende.de/tl_files/conference/bssc2017/bssc2017-abstract-book.pdf

Recent developments of the biogeochemical CMECS - Baltic Sea Forecast products

Schwichtenberg, Fabian; Lindenthal, Anja; Bruening, Thorger; Jandt, Simon; Lejungemyr, Patrik; **Maljutenko, Ilja** Abstracts : [BSSC 2019] 2019 / p. 312 https://www.su.se/polopoly_fs/1.446756.1566224624!/menu/standard/file/abstracts_A5_ny.pdf

Ruhnu sai „Laine poisid“

Meie Maa 2021 / Lk. 3 <https://dea.digar.ee/article/meiemaad/2021/05/10/10.8>

Satelliidiseirel põhinevast Copernicuse mereteenusest on kasu nii kaluril kui tuulepargi arendajal [Võrguväljaanne]

Sea surface temperature variations in the south-eastern Baltic Sea in 1960–2015

Rukšėnienė, Viktorija; Dailidienė, Inga; Kelpšaitė-Rimkienė, Loreta; **Soomere, Tarmo** Baltica 2017 / p. 75-85 : ill
<https://doi.org/10.5200/baltica.2017.30.09> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sediment quality in Estonian western Gulf of Finland - with reference to the northern Gulf of Finland

Vallius, H.; Suuroja, Sten; Petersell, Valter; **Alliksaar, Tiit** The 11th Baltic Sea Science Congress "Living Along Gradients : Past, Present, Future" : June 12-16, 2017 : abstracts 2017 / p. 109 https://www.io-warnemuende.de/tl_files/conference/bssc2017/bssc2017-abstract-book.pdf

SmartResponseWeb

Aps, Robert; Fetissov, Mihhail; Jönsson, Anette; **Heinvee, Martin**; Kopti, Madli; **Tabri, Kristjan**; Tõnisson, Hannes The Gulf of Finland assessment 2016 / p. 342 <http://hdl.handle.net/10138/166296>

Strategies for sustainable and circular management of phosphorus in the Baltic Sea region : The holistic approach of the InPhos project

Smol, Marzena; Preisner, Michal; Bianchini, Augusto; **Voronova, Viktoria**; **Pachel, Karin** Sustainability 2020 / 21 p. : ill
<https://doi.org/10.3390/su12062567> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stratification has strengthened in the Baltic Sea - an analysis of 35 years of observational data

Liblik, Taavi; **Lips, Urmas** Frontiers in earth science 2019 / art. 174, 15 p. : ill <https://doi.org/10.3389/feart.2019.00174> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A synergy approach for the validation of coastal altimetry data in the Baltic Sea

Delpeche-Ellmann, Nicole Camille; **Pindsoo, Katri**; **Kudryavtseva, Nadezhda**; **Soomere, Tarmo** 10th Coastal Altimetry workshop, 21-24 February 2017, Florence, Italy : abstracts 2017 / p. 37 <http://old.esaconferencebureau.com/docs/default-source/17c07-img/abstract-book.pdf?sfvrsn=0>

A synthesis of marine monitoring methods with the potential to enhance the status assessment of the Baltic Sea

Mack, Leoni; Attila, Jenni; Aylagas, Eva; Beermann, Arne; Borja, Angel; Hering, Daniel; Kahlert, Maria; Leese, Florian; **Lips, Urmas** Frontiers in marine science 2020 / 16 p <https://doi.org/10.3389/fmars.2020.552047> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tallinnovationilt rahasüsti saanud nutikas merepoi soovib vallutada maailmamerd

digipro.geenius.ee 2024 [Tallinnovationilt rahasüsti saanud nutikas merepoi soovib vallutada maailmamerd](#)

Tarmo Soomere ÜROs uuest Eesti rakendusest: riikidel tekib ka ilma kallite radariteta täielik pilt

Kald, Indrek ituudised.ee 2023 [Tarmo Soomere ÜROs uuest Eesti rakendusest: riikidel tekib ka ilma kallite radariteta täielik pilt](#) [Eestis välja töötatud tehnoloogia võimaldab laevu identifitseerida tekitatud lainete järgi](#) [ÜRO-s esitleti Eestis välja töötatud tehnoloogiat, mis ka kõige märkamatumad laevad ära tunneb](#)

Teadlased: Eesti saaks merealust taristut valvata veealuste mikrofonidega

Scientists: Estonia could monitor undersea infrastructure with microphones

Эстония могла бы контролировать подводные кабели с помощью микрофонов

Piir, Rait novaator.err.ee 2023 [Teadlased: Eesti saaks merealust taristut valvata veealuste mikrofonidega](#) [Scientists: Estonia could monitor undersea infrastructure with microphones](#) [Эстония могла бы контролировать подводные кабели с помощью микрофонов](#)

Testing marine data assimilation in the northeastern Baltic using satellite SST products from the Copernicus Marine Environment Monitoring Service

Zujev, Mihhail; **Elken, Jüri** Proceedings of the Estonian Academy of Sciences 2018 / p. 217-230 : ill
<https://doi.org/10.3176/proc.2018.3.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The Baltic Way Project

Soomere, Tarmo Preventive methods for coastal protection : towards the use of ocean dynamics for pollution control 2013 / p. xiii-xiv

The first overview of the microplastic pollution in the Estonian waters in the Gulf of Finland, Baltic Sea

Lips, Inga; **Lind, Kati** Abstracts : [BSSC 2019] 2019 / p. 293
https://www.su.se/polopoly_fs/1.446756.1566224624!/menu/standard/file/abstracts_A5_ny.pdf

The role of nearshore slope on cross-shore surface transport during a coastal upwelling event in Gulf of Finland, Baltic Sea

Delpeche-Ellmann, Nicole Camille; **Soomere, Tarmo**; **Kudryavtseva, Nadezhda** Estuarine, coastal and shelf science 2018 / p. 123-135 : ill <https://doi.org/10.1016/j.ecss.2018.03.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TTÜ teadlased töötasid välja reostuse leviku prognoosisüsteemi

Kuidas ennustada merel reostuse levikut?

keskkonnatehnika.ee 2023 [TTÜ teadlased töötasid välja reostuse leviku prognoosisüsteemi](#) [Kuidas ennustada merel reostuse levikut?](#)

A typical wave wake from high-speed vessels : its group structure and run-up

Didenkulova, Irina; Rodin, Artem Nonlinear processes in geophysics 2013 / p. 179-188 : ill <https://doi.org/10.5194/npg-20-179-2013>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uncertainty and consistency assessment in multiple microplastic observation datasets in the Baltic Sea

She, Jun; **Buhhalko, Natalja; Lind, Kati; Mishra, Arun; Kikas, Villu**; Costa, Elisa; Gambardella, Chiara; Montarsolo, Alessio; Faimali, Marco Frontiers in marine science 2022 / art. 886357 <https://doi.org/10.3389/fmars.2022.886357> [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Validation of the new Sentinel-3 satellite altimetry data in the Baltic Sea basin

Kudryavtseva, Nadezhda; Delpeche-Ellmann, Nicole Camille; Soomere, Tarmo The 11th Baltic Sea Science Congress "Living Along Gradients : Past, Present, Future" : June 12-16, 2017 : abstracts 2017 / p. 311 https://www.io-warnemuende.de/tl_files/conference/bssc2017/bssc2017-abstract-book.pdf

В ООН представили разработанную в Эстонии технологию, которая распознает даже самые незаметные корабли

rus.postimees.ee 2023 [В ООН представили разработанную в Эстонии технологию, которая распознает даже самые незаметные корабли](#)

Спутниковый мониторинг моря Copernicus полезен как рыбакам, так и строителям ветряков [Online resources]

mke.ee 2022 [Спутниковый мониторинг моря Copernicus полезен как рыбакам, так и строителям ветряков](#)

Точные морские данные помогут в борьбе с высокими ценами на электроэнергию [Online resources]

Lutter, S. rus.err.ee 2022 [Точные морские данные помогут в борьбе с высокими ценами на электроэнергию](#)