

Tallinn industrial microgrids

The Fifth Estonian DC Innovation Workshop will be held in the TalTech NRG Building (room NRG-226), Ehitajate tee 5/10, Tallinn, Estonia. This edition will span over half a day on November 27, starting from 13:00. The technical program includes representatives of 8 countries who will deliver 17 presentations covering different topics of DC Technology. Presentations from the industry will dominate the technical program.

The fifth workshop is dedicated to "Boosting Energy Efficiency, Security & Resilience." This event aims to create an engaging atmosphere for exchanging ideas and provide a coherent multidisciplinary outlook on the future of energy efficiency and the advantages of adopting DC systems.

The TalTech Residential DC Innovation Hub was proudly unveiled, a unique facility for development and validation of technologies that can revolutionize building energy efficiency. We were delighted to see a diverse group of about 100 attendees from five countries, with a significant representation from Estonia, show their keen interest in this innovative venture.

This edition was memorable thanks to the support of the CurrentOS Foundation, the industry-driven NGO popularizing DC systems in the EU and working on their standardization. It was announced that TalTech officially joined the CurrentOS Foundation as the first academic member.

The Second Estonian Residential DC Innovation Workshop was held soon after the first to consolidate stakeholders in Baltic states. It was organized on March 29, 2022, in the historical Koplimadise farm.

The second workshop was dedicated to "Power Electronic Systems for Residential DC Microgrids." The main aim of this workshop was to demonstrate the latest developments in power electronic systems developed in Estonia for residential DC power distribution. The agenda included presentations from Estonia, Latvia, Spain, Portugal, and Iran. From this event, it was decided that this workshop series will continue as annual events organized by the i3DC Initiative in November/December.

The activities of the i3DC Initiative were started with the First Estonian Residential DC Innovation Workshop. It was organized on November 25, 2021, in hybrid mode, following COVID-19 regulations. The event took place in the 100-year-old Koplimadise farm, where attendees got a chance to learn also about Estonian culture, national food, and traditions.

The topic of this workshop was "Bridging the Gap Between Academia and Industry." The main aim of this workshop was to bring together experts from academia and industry, market practitioners, and policymakers to present and discuss the latest developments and innovation potential in the field of residential DC microgrids.

Thanks to the early distribution of the event leaflet, representatives of the Estonian, Belgian, and Dutch industries, as well as Spanish, Dutch, Portuguese, Danish, and Polish academia, attended the event in person and online to engage in the agenda that combined academic and industrial presentations. This level of interest in the workshop sent a clear signal that the formation of the i3DC Initiative is timely and highly anticipated.

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