

The 6th Estonian DC Innovation Workshop **Shaping DC Future – Estonia's Outlook**

December 3, 2025, TalTech – Student House (Tudengimaja), Ehitajate tee 5, 19086 Tallinn

The 6th workshop will be focused on the Estonia's DC future and how local developments connect to wider European efforts. Special attention will be given to the transfer of research results into industrial applications as well as the role of pilot projects, such as TalTech Residential DC Innovation Hub, in accelerating uptake. The workshop will highlight how companies, researchers, and policymakers can jointly shape the energy transition by building DC competences that strengthen both national resilience and global competitiveness.

This event is organized by the **i³DC initiative**, a non-profit venture of TalTech aimed at increasing awareness, pushing forward innovation and accelerating the industrial uptake of the residential DC microgrids. It is co-funded by the European Union through the project "Cooperation between universities to promote doctoral studies" (2021-2027.4.04.24-0003). It would be possible to follow the event online, while in-person attendance is advised.

AGENDA

9:00 - 9:45 Meet-up and Ice-Breaking Coffee

9:45 - 10:00 Formal Opening, Dmitri Vinnikov and Erik Puura, TalTech (EE)

10:00 - 11:00 Strategic Visions and Policy Frameworks for DC Electrification

10:00 - 10:20 "Energy Policy in Estonia", Mario Kadastik, The Parliament of the Republic of Estonia (EE)

10:20 - 10:40 "Strategic Vision for Estonia's Electricity Future – 2035", Karin Lehtmets, Ministry of Climate of Estonia (EE)

10:40 - 11:00 "Promoting DC in EU through SET Plan", Hartwig Stammberger, Eaton and Chair of the Board of ODCA (DE)

11:00 - 12:15 Building the DC Ecosystem in EU: Standards, Applications, and Industry Drivers

11:00 - 11:15 "Current/OS Foundation – Promoting DC Buildings Standardization", Harry Stokman, DC Expert BV (NL)

11:15 - 11:30 "Efficient Resilience in Industry with Open DC Alliance", Hartwig Stammberger, Eaton and ODCA (DE)

11:30 - 11:45 "DC Technologies for Buildings, Offices, Public and Commercial Areas", Vicky Makridou, DC Systems (NL)

11:45 - 12:00 "DC Street Lighting Technologies", Laurens Mackay, DC Opportunities (NL)

12:00 - 12:15 "Bidirectional DC Charging – A Step on the Way to DC Grids", Kai Fieber, Ambibox (DE)

12:15 - 13:00 Lunch

13:00 - 14:15 Presentation of DC Case Studies and Technology Innovations

13:00 - 13:15 "Fostering Innovation and Collaboration - the State Perspective", Mikk Vahtrus, Ministry of Economic Affairs and Communications of Estonia (EE)

13:15 - 13:30 "Plugged Into the Future: Estonia's HVDC Story", Reigo Haug, Elering (EE)

13:30 - 13:45 "Powering the Future of EV Fast Charging", Arsen Muradov, Bercman Technologies (EE)

13:45 - 14:00 "Taming AI Power Spikes: Supercapacitors on the DC Side of Datacenters", Max van de Poll, Skeleton Technologies (EE)

14:00 - 14:15 "Aviation in the DC Era: From Power Supplies to Smart Airports", Arshad Khan, C.D.R. Technology (EE)

14:15 - 15:30 Forthcoming Estonian DC Innovation Projects

14:15 - 14:30 "DC Buildings and Neighbourhoods", Dmitri Vinnikov, TalTech (EE)

14:30 - 14:45 "Opportunity V2G Charging", Andrei Blinov, TalTech (EE)

14:45 - 15:00 "Urban DC Street Lighting Nanogrids", Andrei Blinov, TalTech (EE)

15:00 - 15:30 "TalTech Residential DC Innovation Hub", Andrii Chub, TalTech (EE), incl., coffee break and field visit

15:30 - 16:30 Discussion Panel "Challenges Ahead of the DC Transition – Business • Social • Education"

Panelists: Harry Stokman, Hartwig Stammberger, Laurens Mackay, Yannick Neyret, Pavol Bauer

Moderator: Andrii Chub

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i³ DC

Accelerates Energy Transition

in cooperation with

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