





The 4th Estonian DC Innovation Workshop

Enhancing Energy Performance of Buildings

November 22, 2023, TalTech - Mektory EnergyHub, Raja 15, 12618 Tallinn, Estonia

AGENDA (ESTONIAN TIME, CET+1

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9:30 - 10:00	Ice-Breaking Coffee
10:00 - 11:00	Intro: Energy Performance of Buildings: Benefits, Challenges and Opportunities
10:00 - 10:20	"Zero Emission Buildings" Jarek Kurnitski, TalTech (EE)
10:20 - 10:40	"Low-Impact Modular Pattern Buildings" Renee Puusepp, Creatomus Solutions (EE)
10:40 - 11:00	"Energy Efficient Electrification Technologies for Buildings and Neighborhoods", Dmitri Vinnikov, TalTech (EE)
11:00 - 12:15	DC Systems and Technologies
11:00 - 11:15	"The Importance of Convergence" Harry Stockman, DC Systems (NL)
11:15 - 11:30	"Current/OS, The Leading Community in DC Prosumer Installations"
	Yannick Neyret, CurrentOS Foundation (NL)
11:30 - 11:45	"Testing and Demonstration of DC Power Applications" Marco Stieneker, Maschinenfabrik Reinhausen (DE)
11:45 - 12:00	"Operation of an MV/LV DC Microgrid Connecting High Power Converters"
	Katharina Hetzenecker, RWTH Aachen (DE)
12:00 - 12:15	"Power Electronics Based Circuit Protection for DC Microgrids" Kenan Askan, Eaton (AT)
12:15 - 12:30	"LVDC Underlay Grids Based on Solid-State Transformers" Benedict Mortimer, RWTH Aachen (DE)
12:30 - 13:00	Lunch
13:00 - 14:00	DC Tools and Applications
13:00 - 13:15	"Second Life Battery Storage in DC Microgrids" Laurens Mackay, DC Opportunities (NL)
13:15 - 13:30	"Residential prosumer power profiles and how can battery storage and DC technologies help"
	Andrei Blinov, TalTech (EE)
13:30 - 13:45	"Towards DC-Powered Home Appliances: An Induction Heating Cooker Case Study"
	Oscar Lucia, University of Zaragoza (ES)
13:45 - 14:00	"DCIDE - Software to Design Microgrids at the Speed-of-Thought"
	Giel Van Den Broeck, Direct Energy Partners (BE)
14:00 - 15:00	Residential Energy Storage Systems
14:00 - 14:15	"Industrial and Utility Scale Storage Systems" Andre Lindvest, Energiapartner (EE)
14:15 - 14:30	"Distributed Generation System Design with the Purpose to Reduce Self-Generated Energy Losses"
	Audrius Jonaitis, Kaunas University of Technology (LT)
14:30 - 14:45	"Overview of Residential Storage Systems" Ilya Galkin, Riga Technical University (LV)
14:45 - 15:00	"Role of Power Electronics and Energy Efficiency in Storage Systems" Dimosthenis Peftitsis, NTNU (NO)
15:00 - 15:30	Coffee break
15:30 - 17:00	Grid-Interactive Buildings and Communities
15:30 - 15:45	"Prosumers and Utility Grid" Hardi Hõimoja, Elektrilevi (EE)
15:45 - 16:00	"Energy Router for Grid Interactive Residential Buidlings" Oleksand Husev, TalTech (EE)
16:00 - 16:15	"Empowering Consumers to Power the World" Tarvo Õng, Fusebox Energy (EE)
16:15 - 16:30	"Pioneering Grid-Interactive Buildings Through Demand Response: The Role of AI"
	Juri Belikov, R8 Technologies (EE)
16:30 - 16:45	"Energy Positive Districts and Energy Sharing Between Buildings" Tarmo Korõtko, TalTech (EE)

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16:45 - 17:00 Wrap-Up Discussion





