WINTER SEMINAR OF THE
CENTRE OF EXCELLENCE IN ENERGY EFFICIENCY

8-9.01.2026, TERVIS SPA HOTEL, SEEDRI 6, PÄRNU

AGENDA

THURSDAY, 8.01.2026

10:00-10:30 MEET-UP AND WELCOME COFFEE

10:30-11:00 OPENING SESSION (2x15 min)
- **ENER CER: From Idea to Implementation.** Jarek KURNITSKI *(TalTech, EE)*
- **Estonian National Renovation Plan.** Lauri SUU *(Ministry of Climate, EE)*

11:00-12:00 ZERO EMISSION BUILDINGS (5x12 min, incl. Q&A)
- **Operational Energy Performance Normalization.** Helena KUIVJÕGI *(TalTech, EE)*
- **Heat Pump Performance Data Dashboard.** Karl Villem VÕSA *(TalTech, EE)*
- **Climate Change and Underfloor Cooling.** Kätriin ONEMAR *(TalTech, EE)*
- **Homeowner Renovation Notification Procedure with Simplified Administrative Burden**. Alois PÕDRA *(TalTech, EE)*
- **NZEB Test Facility Renovation to ZEB.** Martin KIIL *(TalTech, EE)*

12:00-13:00 ENERGY EFFICIENT, RESILIENT AND SMART ELECTRIFICATION TECHNOLOGIES (5x12 min)
- **Zero-Emission Buildings and Challenges of All-Electric Lifestyle.** Andrei BLINOV *(TalTech, EE)*
- **Residential Prosumer DC Microgrids.** Indrek ROASTO *(TalTech, EE)*
- **New Opportunities and Challenges in Residential PV Generation.** Andrii CHUB *(TalTech, EE)*
- **Dimensioning of Residential Battery Energy Storages.** Tofopefun NIFISE OLAYIWOLA *(TalTech, EE)*
- **Addressing Urban Infrastructure Challenges via Opportunity V2G Charging.** Hans ANNISTE *(TalTech, EE)*

13:00-14:00 LUNCH

14:00-15:00 DATA DRIVEN CONTROL AND MODELLING (5x12 min)
- **Control in the Era of AI.** Juri BELIKOV *(TalTech, EE)*
- **Advancing Explainable Artificial Intelligence for Trustworthy Machine Learning Applications.** Kimia SOROUSH *(TalTech, EE)*
- **Human-Centric Buildings: The role of eXplainable AI in Cognitive Environments.** Vejey Pradeep SURESH ACHARI *(TalTech, EE)*
- **Adaptive Demand-Based Control of Heat Pumps Using Supervised Machine Learning.** Ivan SUKHANOV *(TalTech/R8, EE)*
- **Data Preprocessing for Analysis of Buildings Energy Performance.** Kristina VASSILJEVA *(TalTech, EE)*

15:00-16:00 SOCIAL AND REGIONAL IMPACTS (5x12 min)
- **What Supports and What Hinders Collective Decision-Making in Sustainability Transition? The Case of Retrofitting Decisions in Apartment Associations.** Peeter VIHMA *(TalTech, EE)*
- **Everything Started with Drinking Cider': Collective Renovation Capability in Estonian Apartment Associations.** Kaire HOLTS *(TalTech, EE)*
- **Motivations and Rationality of Apartment Associations in Choosing Deep Energy Renovations without Financial Grants.** Lauri LIHTMAA *(TalTech, EE)*
- **Register-Based Study of Housing Renovations: First Insights.** Anneli KÄHRIK *(UT, EE)*
- **Insights from Housing Renovation from Digitalization Work Group.** Kädi-Riin VENDEL *(TalTech, EE)*

16:00-17:00 OPEN DISCUSSION AND **NETWORKING**
17:00-18:00 DINNER
18:00-21:00 SOCIAL EVENT

FRIDAY, 9.01.2026

8:00-9:00 BREAKFAST

9:00-10:00 INTRODUCTION OF ENER CER PLANS FOR 2026 (research directions, keynote speeches, organization of conferences/events, etc.)

- **Zero Emission Buildings.** Jarek KURNITSKI *(TalTech, EE)*
- **Energy Efficient, Resilient and Smart Electrification Technologies.** Dmitri VINNIKOV *(TalTech, EE)*
- **Data Driven Control and Modelling.** Juri BELIKOV, Eduard PETLENKOV *(TalTech, EE)*
- **Social and Regional Impacts.** Tiit TAMMARU *(UT, EE)*

10:00-11:15 DEMONSTRATION AND INDUSTRY OUTREACH

- **SecondSpark: Giving Second Life to EV Batteries.** Alexander RINK *(TalTech, EE)*
- **Urban DC Street Lighting Nanogrids.** Andrei BLINOV *(TalTech, EE)*
- **TalTech Residential DC Innovation Hub - The First DC Living Lab in Northern Europe.** Dmitri VINNIKOV *(TalTech, EE)*
- **Patenting and IP: Basics & Beyond.** Andrii CHUB *(TalTech, EE)*

11:15-11:45 BREAK AND HOTEL CHECK-OUT

11:45-13:00 DISCUSSION ON ENER JOINT ACTIVITIES IN 2026. Moderator: Jarek KURNITSKI *(TalTech, EE)*

- **Joint Research Papers**
- **Joint Supervision of PhD Theses**
- **Joint Project Applications**
- **Closing Remarks. Planning of Next Central Events.**

13:00-14:00 FAREWELL LUNCH

Chair: Dmitri Vinnikov
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