

Program Conference Smart Energy Hubs / Connect-U / 20 November 2024

08:30-09:00	Registration and coffee/tea		Main entrance
09:00-10:15	Plenary opening session		Plenary hall 1st floor
09:00-09:10	Professor Richard van Leeuwen and ass. Professor Yashar Hajimolana: welcome and logistics guides for the conference		
Plenary keynotes:	Perspectives on Smart Energy Hubs - chaired by Prof. Richard van Leeuwen		
09:10-09:25	Pavol Bauer, Professor DC Systems, Energy Conversion & Storage, TU-Delft: Energy hubs - basic building block for energy transition		
09:25-09:35	Jorian Bakker, senior policy advisor Climate and Energy, Dutch ministry: Dutch government policies on development of smart energy hubs		
09:35-09:50	Marjolein Bot, director of program on energy system integration, Topsector Energy: Topsector energy working program Smart Energy Hubs		
09:50-10:00	Bart van der Laan, program manager energy flexibility, Alliander: Impact of Smart Energy Hubs for DSOs		
10:00-10:15	Questions and debate		
10:15-10:30	Short break		Main hall
10:30-12:00	Parallel sessions 1-3		
10:30-12:00 Room 1 Session 1: Local and regional energy planning, spatial and infrastructural aspects of Smart Energy Hubs Chaired by: Richard van Leeuwen	10:30-12:00 Room 2 Session 2: preventing and solving congestion on medium/low voltage networks Chaired by: Cihan Gercek	10:30-12:00 Room 3 Session 3: Smart Energy Hubs solutions framework and applications Chaired by: Yashar Hajimolana	
Session keynote Sebastian Thiede: Towards decarbonisation of manufacturing industry	Session keynote Edmund Schaefer: Sizing energy storage while considering financial, environmental and grid peak reduction objectives: a neighbourhood case	Session keynote Michiel van Dam: Scaling smart energy hubs: the slippery slope to success	
Joris Knigge: The energy transition in urban planning and development; towards an integral approach	Hugo de Moor: Preventing congestion in LV networks can be done by monitoring the voltage using smart meters and controlling supply and demand using local pricing	Jeike Wallinga: Development of industrial estate energy hubs: Accelerating the energy transition through effective interventions of local government	
Timo te Velde: Smart Energy Hubs at the Municipality of Enschede - Lessons Learned from Practice	Hans Meerman: Tackling grid congestion by connecting neighbours	Willem Wijnen: Smart Change Management in Smart Energy Hubs	
Jan Rietdijk: Background and progress to come to an Energy Hub on the Industrial Park de Waterlaan in Bergeijk	Aditya Pappu: Flexibility sizing for Energy Communities under Dynamic Grid Constraints	Sjoerd Doumen: Making Energy Hubs Even Smarter by Providing Trade Between Energy Hubs and Communities	
Ghiami Shamsoddin: Investigate electricity consumption reduction potential during winter using PVT	Hans Schokker: RAAK MKB Project NOWATT	Michel Chatelin: Unlocking the Full Potential of Energy Hubs with Programmable Energy	
12:00 -12.45	Lunch and networking		Main hall
12.45-13:00	Formal opening of Saxion Energy Flexibility lab by Stephan Maathuis, Dean of Saxion academy Life Science, Engineering and Design		Plenary hall 1st floor
13:00-14:30	Parallel sessions 4-6		
13:00-14:30 Room 1 Session 4: cyber secure and interoperable ICT-systems and device interfaces for monitoring and control of Smart Energy Hubs Chaired by: Edmund Schaefer	13:00-14:30 Room 2 Session 5: Hydrogen integration in Smart Energy Hubs Chaired by: Fenna van de Watering	13:00-14:30 Room 3 Session 6: East Netherlands Smart Energy Hubs pilot program Chaired by: Robert-Niels van Droffelaar	
Session keynote Gerwin Hoogsteen: Rethinking Safety and Security of the Energy System for a Green Future	Session keynote Benno Aalderink: Developments and outlook for decentral hydrogen integration in the Netherlands	Session organised by Oost-NL about experiences and lessons learned from the pilot Smart Energy Hub projects in East-Netherlands.	
Das Dwijashish: DC Wind Energy Hubs for a Sustainable Future	Monika Sharevska: Renewable Energy System with Hydrogen Production and Methanol Storage for Efficient Electricity Supply-Demand Balancing	Robert-Niels van Droffelaar: Program and learnings (focus on organization) Wouter Heres: Smart Energy Hub Broeklanden	
Deepak Tunuguntla: Explainable AI/ML forecasting models	Lauro Oliveira: Renewable Hydrogen Hubs in the Netherlands: Assessing the feasibility of hydrogen production technologies integration	Rutger Beekman: Smart Energy Hub Almelo & A1 Deventer (focus on tools) Thomas Peswarissa: Smart Energy Hub Lorentz (focus on EMS)	
Eyuel Ayele Debebe: IECON: IoT Edge Computing for Carbon Neutral Communities	Sandra Wijnant-Timmerman: The energy system in Twente and the role of underground hydrogen storage	Panel discussion	

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14:30-14:45		Short Break		Main hall
14:45-16:15		Parallel sessions 7-9		
14:45-16:15 Room 1 Session 7: multi-commodity smart grids, sector coupling and power to X. Chaired by: Abhishek Singh	14:45-16:15 Room 2 Session 8: Smart charging in Energy Hubs Chaired by: Johann Hurink	14:45-16:15 Room 3 Session 9: MOOI EIGEN: new and open tools for Smart Energy Hub projects Chaired by: Milos Bunda		
Session keynote Daniël Bakker: Exploration of potential grid capacity reduction for multi-commodity smart energy hubs in three industrial areas in the Netherlands	Session keynote Cihan Gercek: Grid design and grid aware EV charging	Session keynote Attila Nemeth: A framework for a social cost-benefit analysis for energy hubs		
Maja Sharevska: Optimization of design and operation of an energy hub using different strategies	Andreas Ligvoet: Charging Energy Hubs - cooperating to electrify logistics	Stage 1: driving towards steward ownership of the future security of supply Joey Willemse and Tamara Oukes: bottom-up development of shared responsibility using a participation framework Vincent Kamphuis: developing future local energy vision using a Plan & Design toolsuite		
Gert-Jan Linthorst: Realized and Operational Smart Energy Project Thermen Soesterberg and Heat Central Groenpoort (for district heating/cooling)	Ali Saklaoui: Coordinated Optimization of Logistics Electric Fleet and Energy Management System of Constrained Energy Hub	Stage 2: translating the local energy vision into an actual design using Vincent Kamphuis: Plan & Design toolsuite Gerwin Hoogsteen: energy system simulations using Demkit Pelle van den Heuvel: legal framework Timo van Ingen: tender strategy		
Juan López: Developing Digital Twins for Industrial Microgrids: The Ecofactorij Case Study	Tim van 't Wel: Energy Hubs for High Power Charging of Zero Emission Logistics	Stage 3: realizing the Energy Hub Haike van de Vegte: development of a shared SCADA/EMS system for local matching of supply and demand		
Ewoud Vos: SynergyS: a market-based approach for multi-commodity energy hubs	Jim Kienhuis: Optimization of location of Energy Storage in Grids	Stage 4: asset management and exploitation of the Energy Hub Miloš Bunda: the exploitation entity		
16:15-16.30		Short Break		Main hall
16:30-17:00		Plenary closing session		Plenary hall 1st floor
16:30-16.45	Take aways from organising chairs and session chairs, moderated by: Robert-Niels van Droffelaar			
16:45-16:55	Best presentation award ceremony by: ass. Professor Yashar Hajimolana			
16:55-17:00	Closing by: Professor Richard van Leeuwen			
17:00-17:30		Networking and drinks		Main hall