

MI-3 Fringe events

Monday 21 May 09:00-17:00	The transitions to a low carbon society (Lund)	Invitation only
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The focus of the workshop will be on innovation as a vital element for the transition of the energy system and the workshop will cover topics from incremental improvements to disruptive breakthroughs of energy technologies, as well as related challenges in policy and institutions. Public expenditure in R&D is seen as essential for the development of new technologies, but given the need for learning in use of the technologies and the need to overcome barriers to adoption, early (long-term, risk willing) investments are pivotal to underpin further innovation, cost reductions and market breakthroughs. Consequently, an integrated public-private approach to innovation is called for, where effective innovation policy strategies and private-sector investments in early innovation phases develop in parallel. Effective policy strategies and private investment risk-taking will be critical to a transition of the energy system.

Contact: *Lena Neij* lena.neij@iieee.se

Sunday-Monday 20-21 May	3rd IC#1 deep-dive Workshop DAY 1 + 2 (Malmö Quality Hotel and Turning Torso)	Invitation only
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The IC#1 on smart grids aims to develop and demonstrate the adoption of smart grids technologies in different grid applications, such as demonstrating the robust, efficient, and reliable operation of regional and distribution grids as well as micro grids in different geographic conditions. In addition, cross cutting aspects related to smart grids as for example power electronics, innovative electric materials, and ICT are considered. The third IC#1 deep-dive workshop on smart grids will bring together international experts for technical and policy discussions on smart grids main challenges.

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Link for more information: <https://nordiccleanenergyweek.com/sessions/3rd-ic1-deep-dive-workshop-day-1-2/>

Tuesday 22 May 09:00-15.30	Innovation Challenge #6 Business Day (Malmö HighCourt)	Invitation only
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The Advanced Materials Innovation Challenge has the goal to develop a smart, automated and fully integrated materials discovery platform to discover high-performance, low-cost and clean materials at least 10x faster. Advanced science instruments like the European Spallation Source and MAX IV can also be used in the making of the clean energy materials of the future.

Advanced materials represent about 50% of the manufacturing cost of clean energy. Accelerating the rate of discovery, development and deployment of new, high-performance, low-cost and clean materials is critical to realizing the goals of Mission Innovation. Experts from universities and companies will discuss the future possibilities and make recommendation to Mission Innovation.

Contact: *Peter Plesner* ppl@copcap.com

Link for more information: <http://www.copcap.com/event-calendar/clean-energy-week-workshop>

Tuesday 22 May 10:00-12:00	<i>French-Swedish Strategic Partnership for innovation and green solutions</i>	<i>Invitation only</i>
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The threat of climate change, an ageing population and digital transformation place new demands on cross-border cooperation. By harnessing each other's strengths and working together to promote innovations and new technology, France and Sweden will be better prepared to meet these challenges. Both countries are strongly committed to fight climate change, which is why areas of cooperation include green transport solutions, clean energy, smart cities and green financing for climate-resilient economies. Both countries are also home to world-leading companies at the forefront of the digital transformation that we are witnessing. The partnership makes it possible to tap into the world-class expertise of these digital companies and startups. Pharmaceutical and environmental innovations promote a healthier lifestyle choice for our countries' citizens. The partnership is expected to enable the two countries to advance developments together in a number of areas of mutual interest, both at EU level and in international forums. The agreement opens the way for continued and enhanced cooperation between Swedish and French companies and deepens existing relations.

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Link for more information: <https://nordiccleanenergyweek.com/sessions/french-swedish-strategic-partnership-for-innovation-and-green-solutions/>

Tuesday 22 May 10:00-15:00	<i>Bridging the Gap Between Greentech R&D and Commercialization: Best Practice from the Nordic Countries (Industriens Hus, Copenhagen)</i>	<i>Invitation only</i>
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The purpose of this event is to bring together the entire value chain to share best practice and it invites representatives from the Nordic support programs to share their vision for supporting new cleantech. It will give insights into what the megatrends in the energy sector – decentralization, digitalization and decarbonization – mean for the investment landscape.

The countries committed to Mission Innovation have all pledged to seek to double their governments' clean energy research and development investments over five years to accelerate the transition toward a more clean, affordable, and reliable energy mix. This commitment represents a crucial step towards the development of groundbreaking cleantech, but a central challenge remains: How to bridge the gap between cleantech R&D and commercialization. National investment programs play a key role in this process by supporting cleantech R&D in the initial stages but particularly in the selection and “upbringing”, i.e. requirement and guidance, of the supported projects. The outcome from this process ideally attracts private sector capital and knowhow and leads to scale up of the new cleantech.

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Link for more information: <https://nordiccleanenergyweek.com/sessions/bridging-the-gap-between-greentech-rd-and-commercialization/>

Tuesday 22 May 10:00-15:00	<i>3rd Mission Innovation Smart Grids Workshop (EnergyHub Nordhavn, Copenhagen)</i>	<i>Open</i>
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The purpose of this public Mission Innovation Smart Grids workshop is to gather decision makers, experts and others with interest in intelligent energy systems to discuss the latest advancements around the world, innovation priorities and identify international collaboration possibilities, business opportunities as well as innovation potentials. The workshop will discuss smart electricity grids and focus on the integration of different energy systems (electricity, heating, gas, transportation etc.). The workshop is organized by Mission Innovation Challenge #1 ‘Smart Grids’ Working Group in collaboration

with the Danish Partnership for Smart Energy Networks and Swedish Smart Grid Forum, and will contribute to the further development of the Mission Innovation collaboration.

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Link for more information: <https://nordiccleanenergyweek.com/sessions/3rd-mission-innovation-smart-grids-workshop/>

Tuesday 22 May 13:00-17:00	Early Adopters, Disruptors & the Energy Transition (HighCourt, Malmö)	Invitation Only
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The purpose of this event is to engage corporations, new market entrants and energy market leaders to highlight opportunities and barriers for end-user demand to drive energy transformation. Insights from the event will be captured and shared with our attendees.

Deploying solutions to decarbonise energy systems and contribute to solving climate change has never been more urgent. New technologies are converging to provide opportunities for adopting solutions faster. We see new business models emerging that combine both software and hardware at the intersection of IoT, AI and distributed ledgers that enhance our ability to optimise renewables, increase renewables grid integration, and transform demand management into demand 'flexibility'. Key players in the scaling engine on energy innovation are corporate 'early adopters' of solutions. Going beyond commitments, we already see early adopters seeking energy innovation to meet their targets, often by aligning their energy and innovation strategies, setting-up new business units focused on sourcing startups, setting-up a corporate VC to make acquisitions or allowing pre-procurement pilot project.

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Link for more information: <https://nordiccleanenergyweek.com/sessions/early-adopters-disruptors-and-the-energy-transition/>

Tuesday 22 May 09:00- 17:20	Enhancing Data Collection on Government and Private Sector Spending for Clean Energy Research and Innovation (Room 6 & 7 at Malmö Live, Malmö)	Open
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Accurate, reliable, and timely information on public and private sector spending for energy RD&D is crucial for decision makers to identify opportunities and gaps under Mission Innovation (MI), and to efficiently mobilise investments in clean energy technologies/ solutions. The International Energy Agency (IEA) and the European Commission-Joint Research Centre (EC JRC) in collaboration with the MI Secretariat will host a side event to present the benefits of tracking energy RD&D spending through enhanced data collection. Taking stock of experiences and best practices, this Expert Workshop aims to make recommendations for the collection and understanding of data on public and private spending on energy RD&D. The objective is to help MI countries and other stakeholders develop and refine appropriate methodologies and indicators that can improve our collective knowledge of the trends in public and private funding for clean energy technology innovation at national and global levels, and enable the identification of funding gaps.

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<https://nordiccleanenergyweek.com/sessions/enhancing-national-and-international-data-on-government-and-private-sector-rdd-spending-for-better-clean-energy-innovation-policy/>

Tuesday 22 May 12:15 – 13:00	Decarbonizing heating and cooling – Sustainable and Smart Solutions for Clean Air (Studio, Malmö)	Open
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Heat consumption accounts for over 50% of total final energy consumption globally. This means that decarbonizing heat is a must for carbon-free energy system. Cooling demand is also rising around the world. Until now modern renewables, including biofuels and renewable electricity and excluding certain biofuel usage in developing countries, account only 9 % of global heat consumption. Approximately 75 % of heat consumption is produced by fossil and other non-renewable energy sources. There are innovative and sustainable solutions for smart cities to cover both heating the cooling demand. Integrating the energy systems is one key to success. The Nordic countries are on the top of the list of high renewables share in heat production. New innovations and policies are enabling even higher share of clean energy in heating and cooling systems.

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<https://nordiccleanenergyweek.com/sessions/decarbonizing-heating-cooling-sustainable-smart-solutions-clean-air/>

Tuesday 22 May 13:00 – 13:45	Making low-carbon heating and cooling available for everyone (Studio, Malmö)	Open
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Mission Innovation Challenge 7 – Affordable Heating and Cooling and the IEA Technology Collaboration network will discuss solutions and needed actions for transformation to an affordable, efficient, renewable and secure heating and cooling sector. Organisers are IC#7 as well as Heat Pump Centre and IEA Technology Collaboration.

Contact: Monica.axell@ri.se

<https://nordiccleanenergyweek.com/sessions/making-low-carbon-heating-and-cooling-available-for-everyone/>

Wednesday 23 May 09:00-13:00	How the European Battery Alliance can accelerate the development of sustainable value chains for batteries ow the European Battery	Invitation Only
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This conference will highlight the importance of batteries as a means to meet decarbonization goals in power and transport. Focus will be on sustainability aspects and related business opportunities in each step of the battery value chain from mining to recycling and 2nd life. Experts from industry, public authorities and academia will give their perspectives on needs and opportunities in technology, business models and regulation development from their part of the value chain to pave the way to sustainably produced batteries covering aspects from raw material supply, production as well as recycling, 2nd life and substitution. An interactive panel discussion with audience interaction will discuss solutions and potentials as well as needs of research and innovation and effective regulatory frameworks. The aim of the discussions is to identify the most relevant solutions for the development of sustainable value chains for sustainable batteries and key steps for the way forward. Anticipated outcome is to give to a clear message to decision makers what industry/public authorities/governments can do to promote the development of sustainable value chains in Europe taking aspects of recycling and circular economy into account based on actions developed by the European Battery Alliance.

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Link for more information : <https://nordiccleanenergyweek.com/sessions/how-the-european-battery-alliance-can-accelerate-the-development-of-sustainable-value-chains-for-batteries-ow-the-european-battery/>

**Wednesday 23
May
09:00-13:30**

Mission Innovation Cities Convening (Malmö Town Hall)

**Invitation
Only**

The Global Covenant of Mayors for Climate & Energy has announced in March 2018 a bold new commitment to develop a City Research & Innovation Agenda to address critical knowledge, data and innovation gaps that will enable cities to take accelerated and more ambitious climate action. This agenda will be co-developed by cities, city networks, scientists and research institutions, and leading technology companies. The topics developed through stakeholder engagement will be brought to the third Mission Innovation Ministerial on May 23-24 in Malmö/Copenhagen and prioritized during a dedicated Cities Convening.

Contact: Kerem Yilmaz kyilmaz@globalcovenantofmayors.org

**Wednesday 23 May
13:00-17:00**

Speeding up for Change

Investors, cities, regions, corporates and other interested parties are invited to a half-day meeting to speed up the shift towards a zero-carbon emission economy. Join us as we collaborate and use design thinking and challenge-based innovation to make this change happen faster.

Welcome to an afternoon of hard work and large ambitions. As part of the programme, investors are invited to finance solutions, regions and cities prompted to test winning proposals in the field of mobility, as well as to identify needs for clean energy.

“Speeding up for change” is an afternoon session organised in conjunction with Mission Innovation Ministerial 3 and as part of the Nordic Clean Energy Week.

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Link for more information : <https://nordiccleanenergyweek.com/sessions/speeding-up-for-change/>