

National Energy Research and Policy Conference

The future of Integrated Energy Systems in Ireland

Thursday 9 October 2025
Royal Marine Hotel
Dun Laoghaire

Session 1 10:00 - 11:45

Setting the scene

Chair: Margie McCarthy,
Director of Research & Policy Insights, SEAI

10:00	Tea/Coffee and Poster Session
10:30	Welcome and Introduction <ul style="list-style-type: none"> Opening Address David W. Higgins, Independent Economist <p>Panel discussion - Integrating Energy: Challenges, Opportunities, and the Road Ahead</p> <p>Panel Chair: Margie McCarthy, SEAI</p> <p>Panel Participants:</p> <ul style="list-style-type: none"> Fergal McParland, Department of Climate, Energy and the Environment (DCEE) Lisa Ryan, University College Dublin (UCD) Peter Coyle, Chair of the Marine Renewables Industry Association (MRIA) Phil Hemmingway, Commission for Regulation of Utilities (CRU) Siobhán O'Halloran, Gas Networks Ireland (GNI)

Session 2 11:45 - 14:20

Research Sprint

Chair: Kerrie Sheehan
Head of Research, Innovation and Electricity, SEAI

11:45	Session 1 Presentations <ul style="list-style-type: none"> Kriti Bhalla, TU Dublin "A Systems Approach to Developing a Novel Carbon Neutrality Framework for Energy-Flexible Grid-Interactive Buildings" Niamh Power, Munster Technological University "Optimising Solar PV in Irish Homes: Design Parameters and Early Adopter Behaviour" Anita Ortega, Trinity College Dublin "RevRenew: Real-World Integration of Renewable Energy, Smart Storage, and EVs for Household Energy Optimization" Terence O'Donnell, University College Dublin "Leveraging Demand Side Flexibility using Vehicle to X" <p>Followed by Q&A session</p>
12:35	Lunch and Poster Session
13:30	Session 2 Presentations <ul style="list-style-type: none"> Jizhong Meng, Teagasc "Closing the Loop: Sustainable LFP Battery Recycling for Integrated Energy Resilience" Alireza Etemad, Codema "Evaluating Thermal Storage Integration for Grid-Responsive Operation of Fourth-Generation District Heating Systems" Eoin Ó Bróin, University of Limerick "Heat Recovery from Wastewater Treatment Plants to Supply Existing Buildings with Low-Carbon Heat via District Heating" Sweta Malik, University College Dublin Energy Institute "Towards Peer-to-Peer (P2P) Energy Trading: A Policy Pathway for Ireland's Decentralised Energy Future" <p>Followed by Q&A session</p>

Session 3 14:20 - 15:30

Lessons Learned, Futures Imagined

Chair: Francesca Martini, Funded Research Programme Manager, SEAI

14:20	Chair Welcome
	Local Case study <ul style="list-style-type: none"> Joanne Maher and Ronan Herron, DLR County Council "Stillorgan Hybrid Power System and the EU Probono project"
14:40	Short interactive workshop <ul style="list-style-type: none"> Shaping tomorrow's energy system <ul style="list-style-type: none"> Lessons learned Overcoming challenges Future opportunities and collaboration
15:00	Networking and Poster Session