

GO-P2P serves as a collaborative forum to explore and understand the range of conditions - policy, regulatory, social and technological - that are critical to the wider adoption of peer-to-peer (P2P), community self-consumption (CSC) and transactive energy (TE) models.

Launched in September 2019, it is the first international pre-competitive and early-stage research collaboration on the whole-system implications of local energy market models. It provides an interdisciplinary platform to share valuable insights into the factors that determine the success or failure of local energy models.

Led by University College London (UCL), the network has grown to include over 200 participants from 10 member countries, with additional knowledge contributions from experts in a further 15 countries. GO-P2P includes leading institutions involved in the study of P2P, TE and CSC systems, representing industry, not-for-profit organisations, academia and policy-making bodies, all of whom share in and benefit from the knowledge generated by GO-P2P.



To date, GO-P2P has conducted a series of comprehensive literature reviews covering five subtasks: Power System Integration, ICT and Hardware, Markets and Transactions, Social and Economic Value, and Policy and Regulation. These research findings include:

- Standardising processes such as metering and data-sharing between devices is needed to reduce costs and improve security and trust. Processes are needed to minimise risks to consumer privacy and ensure compliance with data protection regulations.
- Current regulatory and licensing frameworks, such as the 'single supplier' model are a barrier to large-scale deployment and need reform.
- Non-financial motivations to participate in P2P/TE/CSC markets such as helping disadvantaged consumers and making the grid greener make such schemes attractive for many, however, not all domestic consumers want to join these markets, and regulations need to be in place to ensure they are protected.
- Many countries do not support Local Energy Markets (LEMs), which encompass all P2P/TE/CSC, in their approved grid planning methods. Regulators should amend approved planning methods to allow LEMs to compete with peak capacity-driven investments.

The Observatory is now entering its final phase, collecting data from pilots to create a rich dataset that will provide the relevant insights and evidence needed to make informed decisions to accelerate the uptake of LEMs. Using qualitative comparative analysis, GO-P2P aims to develop a 'readiness index' to assess the readiness of member countries to implement these energy models. The case study data will provide invaluable evidence for policy makers and industry stakeholders considering the wider implications of scaling up these models.

Major achievements during 2023/24

→ Publication of Policy Brief

In February 2024, GO-P2P published its first policy brief entitled "Unlocking local energy markets". The brief presents observations and recent research relevant to policy makers. It also proposes policy recommendations to support the growth of local energy markets. The policy brief is available [here](#).



→ International events

GO-P2P organised two international events with its member countries in February and December 2023:

➤ **United States event:** The first event was held in February in partnership with The Energy Coalition in Santa Monica, USA and focused on "Achieving Equitable Transition in California: Insights from International Stakeholders". Event highlight video available [here](#).

➤ **Event in the Netherlands:** The second event, in partnership with TU Delft in Delft, the Netherlands, focused on "Making Local Energy Markets a Reality".

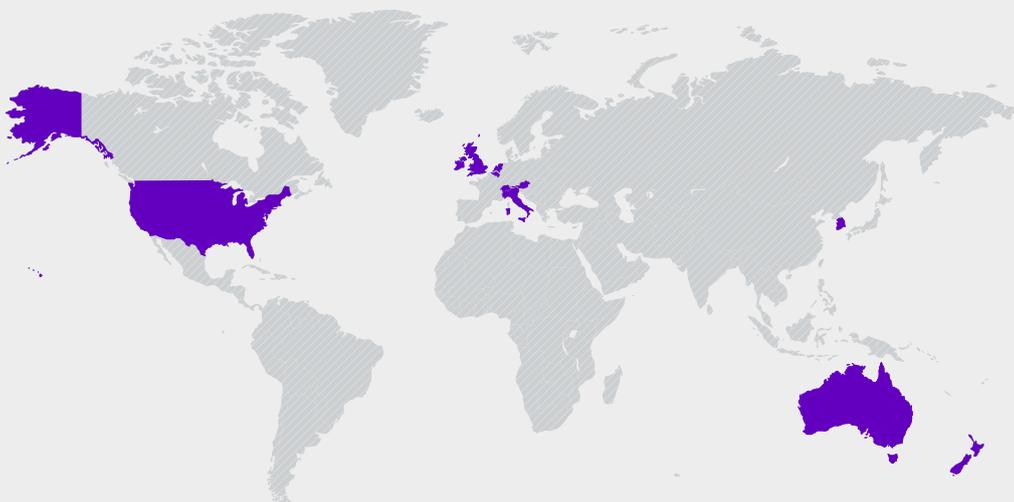


7th GO-P2P meeting at TU Delft, Netherlands

Both events aimed to bring together experts from academia, industry and regulators to discuss the challenges of implementing pilot projects and to identify policies that could support energy transitions.

→ Membership expansion

In November 2023, Korea joined GO-P2P as a participating country, bringing the number of member countries to ten. Korea's membership will provide new insights into the operational frameworks of P2P, TE and CSC models in Asia, enriching collective understanding and informing future pathways.



PARTICIPANTS

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