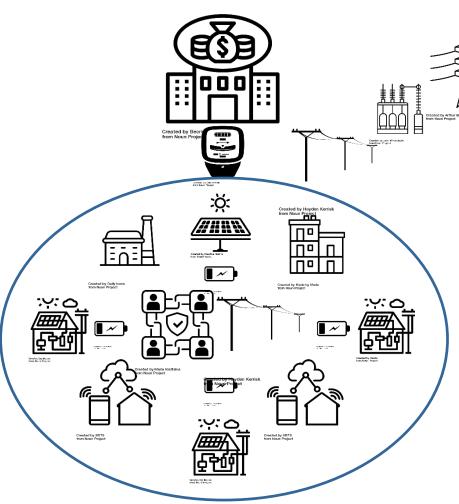
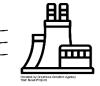


Background





- **Decentralisation** of energy system
- Energy self-consumption through P2P/TE & CSC: solution to grid management challenges.
- Facilitated by technologies such as DLTs (e.g. blockchain).
- Roll-out of pilots in China, US, Europe etc.
- New laws recognising right to P2P.



The Observatory

- The first international pre-competitive and early stage research collaboration on the whole systems implications of local energy models.
- **Leading institutions** researching P2P/TE & CSC models.
- International exchange of valuable evidence on factors determining uptake of models and their viability.
- Platform for collaboration between all stakeholders in the P2P/TE & CSC fields (policymakers, businesses, NGOs, researchers).
- **Duration**: Three years + six-month reporting phase



Participants

DSM Participants

- UK: UKR&l EnergyRev Consortium; University College London
- US: SLAC Lab at Stanford University (US DOE National Laboratory); Purdue University
 Research Centre in Economics
- Australia: Monash University; UNSW; Victoria University (TBC)
- Netherlands: T.U. Delft
- Switzerland: EPFL Lausanne; ETH Zurich (TBC)
- Italy: European University Institute

Non-DSM interested Organisations

- Colombia: Universidad EIA Envigado; Externado University of Colombia, Bogotá
- France: Université Paris 1 Panthéon-Sorbonne; Université Bretagne Sud
- Germany: European School of Management and Technology Berlin; KIT
- Israel: Interdisciplinary Center (IDC) Herzliya

Interested organisations

World Economic Forum; Energy Web Foundation; World Energy Council



Deliverables

- 1. Reports on the 'Key factors determining the uptake of P2P/TE & CSC business models' in participating countries.
- 2. **National Readiness Index** on the readiness of participating countries to adopt P2P/TE & CSC business models.
- In parallel, participants will be collaborating together by hosting side events at conferences, as well as authoring books, journal papers and reports.



Sub-tasks

- Sub-tasks in line with functional stack of P2P/TE & CSC:
- 1. The power system integration layer
- 2. The hardware, software and data layer
- 3. The transactions and markets layer
- 4. The economic and social value layer
- 5. The policy and regulatory layer
- + Sub-tasks for management and analysis of findings.



Task Structure

ST0: Research Design and Management

ST1: Power System layer

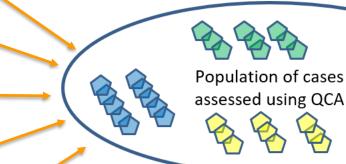
ST2: Software layer

ST3: Markets layer

ST4: Econ/Social layer

ST5: Policy & Regs layer

ST6: International comparative analysis of case studies using QCA



Outputs:

- Common success factors for uptake
- 'Readiness Index' by country



Summary

- International forum for understanding the policy, regulatory, social and technological conditions necessary to support the wider deployment of P2P/TE & CSC.
- Leading research institutions contributing.
- Valuable for all stakeholders: policymakers, businesses, non-profits, researchers.
- Once we get final approval from DSM TCP ExCo, we welcome new participants!





Any questions?

