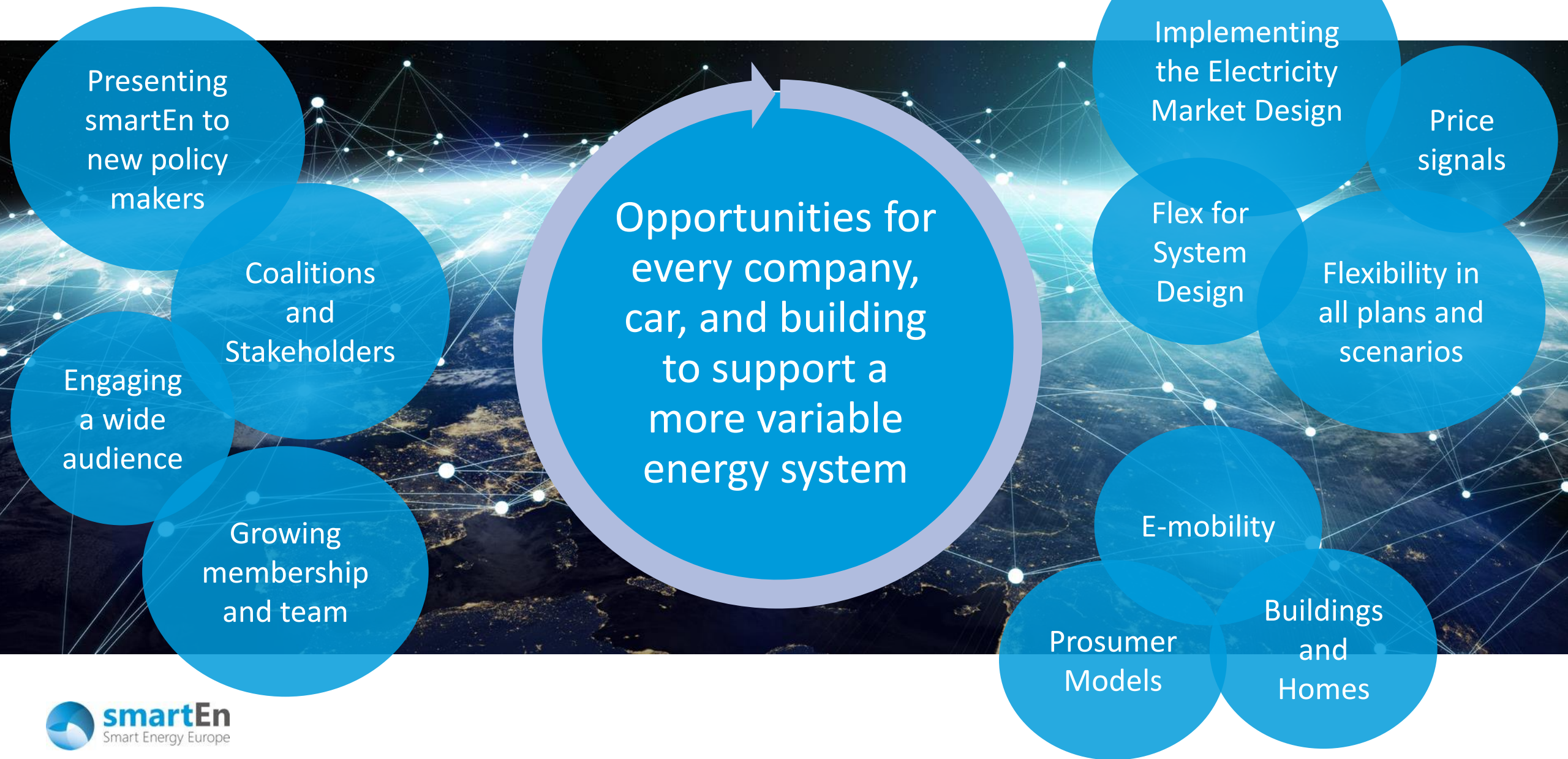




smartEn
Smart Energy Europe

Annual Report 2019

In this annual report....





Andrés Pinto-Bello
Gómez
Senior Policy Analyst



Layla Sawyer
Head of Operations
and BD



Michael Villa
Head of Policy



Frauke Thies
Executive Director

Team update

Alicia Andrea Medina
Villanueva
Communications &
Events Intern



Welcome to new smartEn members!



Presenting smartEn objectives to new policymakers

LEADING THE TRANSITION
TO A HEALTHY PLANET AND
A NEW DIGITAL WORLD



“The European energy transition will be successful when every European benefits from playing an active role in it.”

smartEn

Mission to Strasbourg:
Lobby meetings with
15 MEPs and 7
smartEn Executive
Members



Proposal for
questions to
Commissioners-
designate during
the public hearings



Contributed to the
set-up of new
institutional
initiatives, including
the EP Intergroup on
the Green Deal



Co-organizing high level
events with other
associations:
Electrification Alliance +
emPOWER

EMD adoption process: from political agreement to law

Wording of Electricity Directive:

Clarified crucial formulations during legal check after EU trilogue agreement

For example:

Active customers owning an energy storage facility

Flex-friendly capacity mechanisms

Influence the Revision of the State Aid Guidelines:

Position Paper:

State Aid for Resource Adequacy: Recommendations for the revision of the Guidelines



High-level meeting with Anna Colucci, Director of State Aid in DG Competition

Dissemination with other key policy-makers

Monitoring DSF in Member States

Market Monitor for DSF with Delta-EE:



Public version: Monetisation, market access, participants, and the effect from implementation of the EMD

Exclusive members version: Detailed look into 5 countries

Two webinars hosted (accessible online), one exclusive for smartEn members

Flexibility Markets for System Services

Influencing the creation of flexibility markets in Member States



Position Paper: Design Principles for (Local) Flexibility Markets for System Services

INTERFACE Project on TSO-DSO-Consumer interface: Provided a Market Structure design for different market models

Workshop with the Commission, ACER, CEER, ENTSO-E, E.DSO, GEODE, Eurelectric and smartEn members to discuss smartEn positions and gather support and feedback

Dissemination with other key policy-makers, speeches at the EFET anniversary in Brussels, and the roundtable Flexergy meeting hosted by the DTU in Copenhagen.

Network Code for Demand-Side Flexibility

Influencing the preparation of a delegated act/network code as stipulated in the Clean Energy Package

- **smartEn recommendations in the final report of the Smart Grids Task Force** by serving on the editorial team of Expert Group 3 on Demand-Side Flexibility
- smartEn Task Force created to prepare our own **Blueprint for a Network Code**
- Response to the European Commission consultation on the establishment of the **annual priority lists for the development of network codes and guidelines for 2019 and beyond**

Regular meetings with the European Commission and ENTSO-E Dissemination with other key policy-makers, speech at FEL 2019 in Madrid, on the opportunities the Clean Energy Package provides to Demand Side Flexibility and renewable energy.

Making Electric Vehicles integral parts of the power system

E-MOBILITY AS AN ENERGY RESOURCE

Collection of best practices to drive regulatory changes



Position paper: Making Electric Vehicles **integral parts of the power system**

Best Practices publication: **E-Mobility as an Energy Resource**, with foreword by Transport Commissioner.

Presentation in **webinar with Power2Drive** with 600 registered participants

Workshop on e-mobility gathering **30 industry stakeholders** and smartEn members



Engagement in different **consultations by the Sustainable Transport Forum** in view of the AFID revision, including **inputs to DG Move's draft report**

Value of smart charging infrastructure highlighted in the EPBD Guidance Note to Member States to compensate for the lack of a mandatory requirement in the legal text



Inspiring a new approach to buildings and homes

Quantification of DSF:

White Paper: **Vision for Smart and Active Buildings**

smartEn **workshop on vision for buildings** with 7 Commission officials



Smart Readiness Indicator:

Position paper: **Shaping a valuable Smart Readiness Indicator (SRI) for buildings**

- Participation in **stakeholders' consultations** (written and oral) organized by the Commission and the 2nd consortium
- **Workshop with broader business community** to exchange on smartEn's SRI recommendations
- From **qualitative to quantitative SRI**: establishment of a new Topical Group C to explore this evolution



Smart Buildings: the silent champions of the clean energy transition

By Frauke Thies (pictured), Executive Director, smartEn – the European association for smart energy solutions



One and a half trillion smart buildings are expected to be built by 2050. Smart buildings are becoming a cornerstone of a clean energy system. Smart buildings as a solution can help to balance the energy grid, create savings and savings for consumers and producers, empower them to participate in the market and take energy into decarbonising the energy system. Smart Building Technology Think of Smart Buildings as

appliances and devices, such as heating/cooling, lighting, ventilation, as well as possible dedicated storage systems and on-site electricity generation from renewable sources. For example, if too much energy is available in the grid, the energy management system facilitates to charge electric vehicles or activate the heating system to store energy for later use. If energy is needed elsewhere, smart buildings automatically feed stored energy or energy from on-site renewables like photovoltaics back

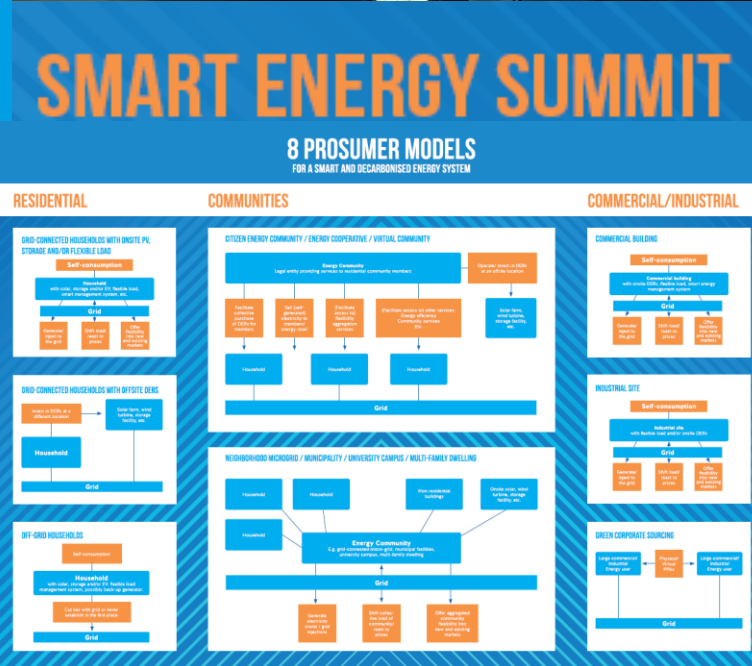
- Webinar co-organised with C40 and Climate Alliance on **Scalable Innovative Financing for Smart Buildings**
- **Better Buildings**: Ensured flexibility is properly recognised in a new stakeholder platform
- Joint letter: The **European Green Deal** needs to lead to concrete actions for integrated building renovations
- Speech on the **demand-side flexibility potentials of airports** during a workshop for Airports Council International Europe
- Speech on the **smartness of Building-Integrated PV** at the Solar Power Summit in Brussels
- European Energy Innovation: Article by Frauke Thies on Smart Buildings – **The silent champions of the clean energy transition**

Driving factors for Smart Energy Prosumers

SMART ENERGY PROSUMERS

Eight ways in which people and companies are leading us to a smart and decarbonised energy system

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Smart Energy Europe



- **Smart Energy Summit 2019: Prosumers in the lead!** Flagship smartEn event with 120 representatives from energy companies and policymakers, including pecha kucha pitches and interactive break-out sessions
- Co-organized **EUSEW event**: Decentralised energy systems: models for a modern EU economy
- **Prosumers and Energy Communities**, EURACTIV.cz event in Prague.
- Prosumers at the **Smart Grid Flexibility 2019** conference in London
- 'The **Evolving Role of Prosumers** in a More Flexible Energy System' speech at the annual European Power Strategy & Systems Summit in Prague
- Speech at **Digital Solar and Storage Summit** in Brussels
- Presentation at **CEER Customer Conference 2019** in Brussels
- **Engerati Podcast on Digitalisation**

Creating price signals that support a flexible energy system 11



The smartEn Map – Network Tariffs and Taxes 2019:

Country by country assessment of Network tariffs and taxes structures and how they affect flexibility services

- **Webinar with Engerati** presenting The smartEn Map on Network Tariffs and Taxes
- Panel discussion on **Distribution Tariffs for e-mobility** at the Step by Step to an Electric Vehicle Charging Network in Central & Eastern Europe Conference
- Participation on Electric Avenue **podcast episode on Distribution Tariffs**
- Speech at the **DTU High Tech Summit** on the effects of network tariffs and taxes on DSF services.

Preparation of new smartEn work stream on Revenue Streams in the Markets Committee

- Breaking down the different angles to approach topic



- Joint letter: European stakeholders call upon the new Commission to **make 2030 climate target a priority**
- Joint letter to the Romanian Presidency on the **EU 2050 Decarbonisation Strategy**
- Joint letter (led by smartEn): Addressing demand-side flexibility and system efficiency in the **National Energy & Climate Plans**
- Joint letter to the ENVI Committee on the **EU 2050 Strategy**
- Joint letter: Electrification Alliance calls for **accelerated energy transition**
- Joint letters on energy sector implications in the **draft e-Privacy Regulation**



- Consultation DG ENER: smartEn Input to technology assumptions for the **new EU Reference Scenario**
- ENTSO-E Consultation: smartEn input to Ten Year Network Development Plan (**TYNDP**)
- Response to DG ENER Consultation on **Digitalisation in the Energy Sector**
- EEB/CAN Europe: **PAC Scenarios for Energy infrastructure**
- Renewables Grid Initiative: **Paris Agreement Compatible Scenarios** for Energy Infrastructure. How to better model flexibility



- 'Modelling the Implementation of A Clean Planet For All Strategy' at the **EMP-E conference 2019** in Brussels.
- Seat at the **closed IEA Roundtable** on the Review of EU Policy
- **E-Invest** event organised by Eurelectric
- Panel Discussion: **Cogeneration in Europe and Beyond** at the Cogen Annual Conference in Madrid



Stakeholder groups:

- **ENTSO-E Balancing** Stakeholder Group
- **ENTSO-E Grid Connection** Stakeholder Committee
- **ENTSO-E System Operations** Stakeholder Committee
- **ENTSO-E Expert Groups Storage and Mixed Customer Sites** (supported by Xavier Moreau (Nuvve), Katrin Schweren (tiko) and Romain Benquey(Centrica))
- Commission Smart Grids Taskforce: EG1 on **Data** and EG2 on **Cybersecurity**

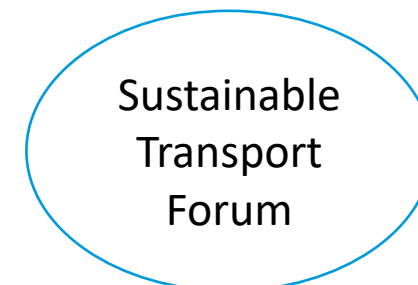
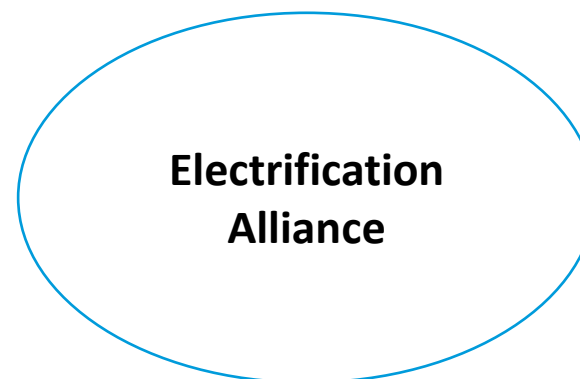
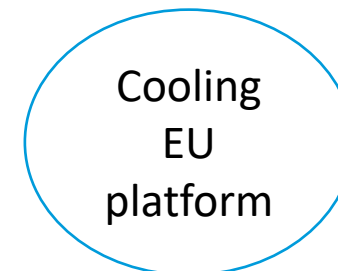
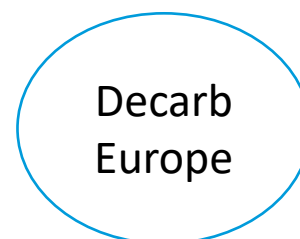
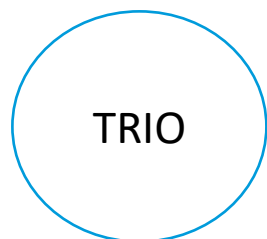
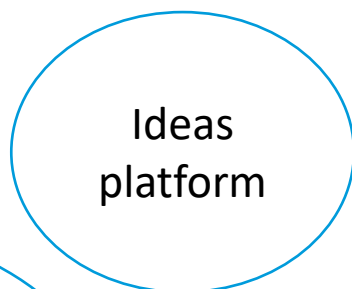
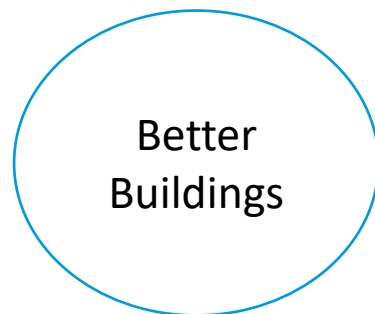


- Led the preparation of an ENTSO-E Advisory Council **position paper on flexibility services** for system support
- ENTSO-E consultation **2020 Workplan**
- ENTSOs consultation **Ten Year Network Development Plan**
- ACM (Dutch) Regulator) **consultation FCR requirements for new customer connections**
- **Open letter on ENTSO-E Frequency Event Report**



- Pierre Bivas (Voltalis) represented smartEn at **CIRED** in Madrid
- Alain Taccoen (EDF) presented on behalf of smartEn at the **FSR Workshop** in Florence
- Jan Zacharias (Entelios) represented smartEn at the **Nordic RSC conference** in Copenhagen
- Paul Troughton (Enel X) presented on behalf of smartEn at the **ENTSO-E Annual conference** in Helsinki

Coalitions and Stakeholder groups to help achieve smartEn objectives



Engaging a wide audience: conferences



EU SUSTAINABLE ENERGY WEEK



Enlit

The Smarter E Europe, Munich 14-17 May:

smartEn chaired and organised the full conference track on Smart Renewable Systems, numerous smartEn presentations and member presentations. smartEn was present also with a booth.

European Sustainable Energy Week, Brussels 18-19 June:

smartEn co-organised 3 sessions and spoke in 4 sessions

European Utility Week, Paris 12-14 November, rebranded Enlit:

smartEn was part of the programme Committee and hosted and moderated the Digitalisation Track at the Summit



Engaging a wide audience: media



Numerous articles and media collaborations including the following highlights:

- The Global Power & Energy Elites 2020 Interview (publication and video)
- BBC Stories: TV interview
- Delta-EE's Talking New Energy Podcast
- Smart Energy International Interview: Why digitalisation is a key enabler of the energy transition



Engaging with smartEn members



Monthly Policy Update call with detailed minutes

Monthly physical Policy Deep Dive meeting

Monthly General Assembly call

Regular update mailings and Membership Newsletters

3 physical smartEn Board meetings and 1 extraordinary meeting on political narrative

Numerous Committee and Task Force calls

14 physical Committee and Task Force meetings (Markets Committee, Active Buildings & Homes Committee, E-Mobility Task Force, Task Force on a Network Code for DSF, Long-Term Vision Task Force)

2 General Association Meetings (March and November)



**THANK
YOU**