



FEDECOM “Market Watch” Newsletter

Edition N°1 / Q2 2023

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This 1st Edition of the FEDECOM market watch newsletter includes:

- **Page 1:** Overview of internal market watch newsletters and 1st Ed. content (Q2 2023)
- **Page 2:** Status of T8.2, T8.3, and T8.4 as discussed at the Lugano General Assembly
- **Pages 3-6:** Focuses on each of the FEDECOM pilot countries.
- **Page 7:** In the energy community news, non-country specific.

Page 1. Contents

Page 1. “Watch newsletter” concept and Ed. N°1 introduction:

As background, this internal market watch newsletter is a tool that I created as exploitation leader of several past EU projects. It allows me to provide the consortium with market intelligence on the project's specificities (e.g., methodologies, technologies, exploitable results, etc.) which clearly evolve over the project lifecycle.

This maiden voyage explores the FEDECOM pilot countries, from a general 'energy communities' perspective. Hopefully it uncovers some useful info for all the partners.

I foresee the 2nd edition to be released in Q4 of 2023, after the competition set assessment is completed for D8.4, aiming to investigate the 'market landscape' of the 14 FEDECOM modules/exploitable results (e.g., papers, events, associations, etc.)

Page 2. Status of T8.2, T8.3, and T8.4:

3 task snapshots from the Lugano GA a selective overview of the WP8 activities.

Page 3. Country focus – Belgium:

6 statistical datasets, 6 papers and 2 reports, 5 news items, and 9 market players.

Page 4. Country focus – Luxembourg:

12 inputs with statistical data, 10 papers, 2 news items, and 4 market players.

Page 5. Country focus – Netherlands:

8 statistical datasets, 11 papers, 5 news items, and 5 active market players.

Page 6. Country focus – Spain:

10 statistical datasets, 6 papers, 8 news items, and 5 active market players.

Page 7. Country focus – Switzerland:

9 statistical datasets, 10 papers, 5 news items, and 5 active market players.

Page 8. In the 'energy community' news:

This page addresses energy communities in non-FEDECOM pilot countries, providing: 9 statistical datasets, 12 papers, 3 news items, and a **special section on 'cross-border energy communities'** comprising 1 statistical dataset and 3 research papers.

Contents

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QUICK REFERENCE:

- T8.2, T8.3, T8.4.
- Pilot country focuses.
- In the energy community news.

Page 2. Quick status recap of T8.2, T8.3, and T8.3

As a quick overview of the WP8 activities, here are three snapshots from the Lugano GA

T8.2 (Market feasibility assessment & competition set assessment status, R2M)

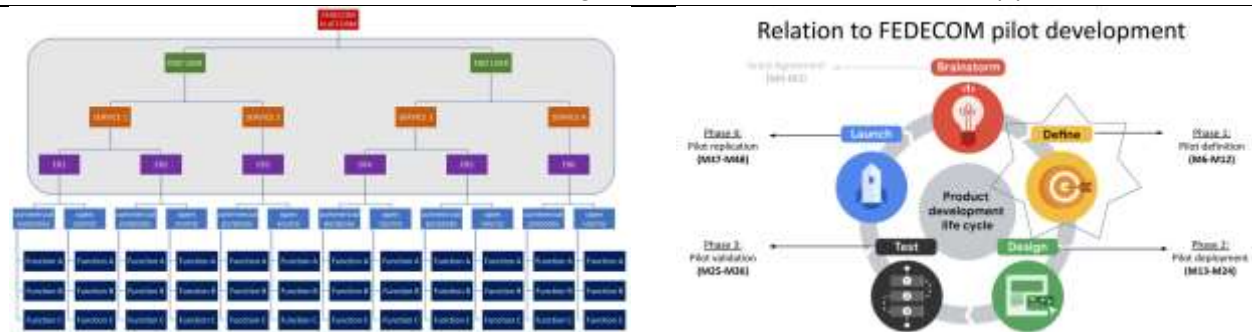
Parameters have been validated by most partners, R2M will proceed with the feasibility assessment (L).

Competition sets received from only a few, others will be contacted by R2M to support the analysis (R).

FEASIBILITY PARAMETERS:	COMPETITION SETS (NOT RECEIVED):
1. Penetration of RES) in total generated capacity (W = 5.0) 2. Satisfaction of generated RES capacity in total demand (W = 5.0) 3. Total energy demand (W = 4.5) 4. Energy community deployments (W = 4.5) 5. Demand response (DR) commercial activity (W = 4.0) 6. Dynamic tariffs (ToU, FIT, FIP...) for prosumers, DR and grid congestion (W = 3.5) 7. National sustainability commitment / RES regulatory and incentives (W = 3.5) 8. Presence of commercial balance service parties for prosumers (W = 3.0) 9. Residential electricity prices (W = 2.5) 10. Non-residential electricity prices (W = 2.0) 11. Energy activism / acceptance of collaborative enterprise models (W = 1.5) 12. Energy cooperative deployments (W = 1.0) 13. Positive energy district deployments (W = 0.5)	ER-2 Energy Dispatch Model(FHG, UCL) ER-4 Grid Analytics & Diag.(HPOW/SUPSI) ER-7 Storage Aging Models (FHG) ER-8 Energy Demand Forecast (TEK/HWU) ER-9 Demand Flexibility Estimator (HWU) ER-10 M&V Methodology (ILECO/ SUPSI) ER-12 Energy Gateway (FHG) ER-14 Visualization Tools (ILECO/ HPOW)

T8.3 (Business model vision and exploitation strategy, R2M)

Business model vision will be multi-sided using a freemium concept, with ERs (L) and pilot validation (R).



T8.4 (Post project solution scale-up and replication planning, VEO)

M7-12: Documenting lessons learned from technical, deployment, financial and administrative views.



Page 3. Country focus - Belgium

Page 3 provides market intelligence on energy communities in Belgium, namely: 6 inputs with statistical data, 6 papers and 2 reports, 5 news items, and 9 active market players.

STATISTICAL DATA

- [STATISTICAL DATA](#) (2023, REScoop): "REC/CEC definitions in Belgium"
- [STATISTICAL DATA](#) (2022, WORLD ENERGY COUNCIL): "BELGIUM MEMBER COMMITTEE"
- [STATISTICAL DATA](#) (2021, JRC Science for policy): "ENERGY COMMUNITIES IN BELGIUM"
- [STATISTICAL DATA](#) (2020, Friends of the Earth Europe): "The Belgian community that built renewable energy for the masses".
- [STATISTICAL DATA](#) (2020, ACT4ECO): "Communautés énergétiques locales"
- [STATISTICAL DATA](#) (2018, The Future of Rural Energy in Europe): "Belgium Rural Energy Data"

PAPERS & REPORTS

- [PAPER](#) (2022, Routledge): "Local Energy Communities"
- [PAPER](#) (2022, ENERGYCITIES): "the story of two cities teaming up with energy cooperatives".
- [PAPER](#) (2022, ScienceDirect): "Renewable energy communities: Do they have a business case in Flanders?"
- [REPORT](#) (2022, Program of the European Union): "Community Energy Municipal Guide"
- [PAPER](#) (2022, 8th Conference on Solar Energy): "Make a Solar Energy Community Economically Attractive Belgium?"
- [PAPER](#) (2022, Renaissance): "An assessment of operational economic benefits of energy communities in Belgium"
- [PAPER](#) (2021, IOPSCIENCE): "An assessment of economic benefits of renewable energy communities in Belgium"
- [REPORT](#) (2020, Vrije Universiteit Brussel): "Legislative options and obstacles for energy communities in Belgium"

NEWS

- [NEWS](#) (2023, The Brussels Times): "Belgium in Brief: Energy communities bring power in numbers".
- [NEWS](#) (2022, ENGIE): "Evaluating the potential benefits of renewable energy communities".
- [NEWS](#) (2019, DERLAB): "Local Energy Communities – Case Study from ORES, Belgium"
- [NEWS](#) (N/A, Port of Antwerp Bruges): "The port that gets your green energy flowing".
- [NEWS](#) (N/A, Community Power): "Community Power in Belgium"

MARKET PLAYERS

- [Energent](#): "non-profit organization that supports community-based renewable energy projects in Belgium."
- [Ecopower](#): "A cooperative renewable energy company that produces and supplies sustainable energy to its members"
- [ENECO BELIUM](#): "A sustainable energy company that provides electricity, gas, to both residential and business customers."
- [EDF LUMINUS](#): "A leading electricity and gas supplier that offers sustainable energy solutions for homes and businesses."
- [ENGIE BELGIUM](#): "A global energy and services provider that delivers sustainable energy solutions to customers."
- [FLUVIUS](#): "The largest distribution system operator in Belgium, responsible for the distribution of electricity and natural gas."
- [REScoop](#): "A cooperative of energy producers & consumers that aims to create a system that is owned by citizens."
- [Tesla](#): "A leading manufacturer of electric vehicles and clean energy products."
- [Vattenfall](#): "A leading European energy company that offers a range of sustainable energy solutions."

Page 4. Country focus - Luxembourg

Page 4 provides market intelligence related to energy communities in Luxembourg, namely: 12 inputs with statistical data, 10 papers, 2 news items, and 4 active market players.

STATISTICAL DATA

- [STATISTICAL DATA](#) (2023, The Luxembourg Government): "Electricity, Gas, Oil & Electromobility."
- [STATISTICAL DATA](#) (2023, Statista): "Renewable energy in Luxembourg - statistics & facts"
- [STATISTICAL DATA](#) (2023, Statista): "Electricity demand in Luxembourg from 2000 to 2021, by origin"
- [STATISTICAL DATA](#) (2022, HivePower): "Renewable Energy in Luxembourg: What You Should Know".
- [STATISTICAL DATA](#) (2022, Guichet.lu): "Production of electricity from renewable energy sources"
- [STATISTICAL DATA](#) (2021, Enerdata): "Luxembourg Energy Information"
- [STATISTICAL DATA](#) (2021, Statista): "Distribution of electricity generation in Luxembourg in 2021"
- [STATISTICAL DATA](#) (2020, United Nations): "The Luxembourg Green Exchange | Luxembourg"
- [STATISTICAL DATA](#) (2020, Energy Communities Hub): "Luxembourg Regulatory Framework"
- [STATISTICAL DATA](#) (2019, CMS): "RENEWABLE ENERGY LAW AND REGULATION IN LUXEMBOURG"
- [STATISTICAL DATA](#) (2019, CMS): "RENEWABLE ENERGY LAW AND REGULATION IN LUXEMBOURG"
- [STATISTICAL DATA](#) (2016, WorldOMeter): "Electricity Generation in Luxembourg"

PAPERS

- [PAPER](#) (2022, OECD): "How are development programs integrating climate objectives post-COVID-19?"
- [PAPER](#) (2022, Energy Science & Engineering): "Characterizing the theory of energy transition in Luxembourg".
- [PAPER](#) (2020, Frieden et al.): "Energy Communities Hub: Luxembourg: Collective self-consumers"
- [PAPER](#) (2020, IEA): "Luxembourg 2020 Energy Policy Review"
- [PAPER](#) (2019, FEDIL): "LUXEMBOURG'S NATIONAL CLIMATE AND ENERGY PLAN"
- [PAPER](#) (2019, enoblog): "A future for all: Luxembourg's renewable energies"
- [PAPER](#) (2019, Fedil): "FEDIL Note About Luxembourg's Renewable Energy (RE) Policy".
- [PAPER](#) (N/A, CVCE): "Luxembourg and the European integration process"
- [PAPER](#) (2018, creos): "Energy Transition Dialogue in Luxembourg"
- [PAPER](#) (2017, Enovos): "Annual Report 2017 Enovos Luxembourg S.A."

NEWS

- [NEWS](#) (2021, ResearchLuxembourg): "Accelerating the transition to a sustainable energy landscape in Luxembourg".
- [NEWS](#) (2020, Smart Energy International): "Luxembourg, IEA partnership addresses energy transition challenges"

MARKET PLAYERS

- [ENOVOS](#): "Enovos is a major energy company in Luxembourg that provides electricity, natural gas, and services."
- [SUDSTROEM](#): "energy supplier that focuses on green energy and offers services for individuals, and communities."
- [LEO ENERGY](#): "renewable energy company that specializes in the development solar and wind energy."
- [E2M](#): "energy management company that provides energy audits, energy consulting, management services."

Page 5. Country focus - Netherlands

Page 5 provides market intelligence on energy communities in the Netherlands, namely: 8 statistical datasets, 11 papers, 5 news items, and 5 active market players.

STATISTICAL DATA

- [STATISTICAL DATA](#) (2023, Government of the Netherlands): "Central government encourages sustainable energy"
- [STATISTICAL DATA](#) (2022, Energy Communities Hub): "Dutch Regulatory Framework"
- [STATISTICAL DATA](#) (2022, European Commission): "In focus: Energy communities to transform the EU's energy system."
- [STATISTICAL DATA](#) (2021, Hive Power): "Renewable Energy in the Netherlands: What you should know."
- [STATISTICAL DATA](#) (2020, IEA): "The Netherlands"
- [STATISTICAL DATA](#) (2020, Patagonia): "COMMUNITY ENERGY IN THE NETHERLANDS"
- [STATISTICAL DATA](#) (2018, Hieropgewekt): "Local Energy Monitor"
- [STATISTICAL DATA](#) (2018, WEF): "These Dutch microgrid communities can supply 90% of their energy needs."

PAPERS

- [PAPER](#) (2022, Delft University): "Modelling Energy Security: The Case of Dutch Urban Energy Communities"
- [PAPER](#) (2022, REScoop): "Netherlands - REC/CEC definitions"
- [PAPER](#) (2022, MDPI): "Does Access to Regulative Exemption Reduce Barriers for Energy Communities?"
- [PAPER](#) (2022, Cambridge University): "Energy Communities in the Netherlands: Learning from Local Energy Initiatives"
- [PAPER](#) (2021, University of Groningen): "Energy Communities in the Netherlands"
- [PAPER](#) (2021, MDPI): "Success, Failure, and Impact of Local Energy Initiatives in The Netherlands"
- [PAPER](#) (2020, OurEnergy): "About The Netherlands' national settings for energy communities"
- [PAPER](#) (2020, University of Twente): "Energy communities: a Dutch case study"
- [PAPER](#) (2020, MDPI): "Formation and Continuation of Thermal Energy Community Systems: for the Netherlands."
- [PAPER](#) (2019, TUE): "EMPOWERING CITIZENS AND COMMUNITIES TO DRIVE A FAIR ENERGY TRANSITION"
- [PAPER](#) (N/A, Energy Communities Hub): "SCHOONSCHIP – A PIONEERING FLOATING ENERGY COMMUNITY"

NEWS

- [NEWS](#) (2022, drift): "Include energy communities in Dutch legislation for a breakthrough in the energy transition."
- [NEWS](#) (2022, Amsterdam economic board): "Help the Smart Energy Community relieve tension."
- [NEWS](#) (2021, NEN): "TROEF shows that collaborating in energy communities pays off."
- [NEWS](#) (2020, Interreg): "A community-based Virtual Power Plant (cVPP)."
- [NEWS](#) (2020, SHREC): "Energy cooperatives united in the Netherlands."

MARKET PLAYERS

- [Vandebron](#): "a platform that connects households and businesses with local sustainable energy sources."
- [ENECO](#): "a sustainable energy company that provides energy solutions to households and businesses."
- [GREEN CHOICE](#): "a renewable energy supplier that offers electricity and CO2-compensated gas to customers."
- [Energie Samen](#): "a cooperative that connects energy communities, developing renewable energy projects."
- [Qurrent](#): "a renewable energy supplier that offers 100% green electricity, products & services to customers."

Page 6. Country focus - Spain

Page 6 provides market intelligence on energy communities in Spain, namely: 10 statistical datasets, 6 papers, 8 news items, and 5 active market players.

STATISTICAL DATA

- [STATISTICAL DATA](#) (2022, ISPI): "The Path Towards a Green Spain."
- [STATISTICAL DATA](#) (2022, Powerledger): "Powerledger launches one of the first 'Energy Community' projects in Spain."
- [STATISTICAL DATA](#) (2022, EON): "Energy community on Tenerife."
- [STATISTICAL DATA](#) (2022, Smart Energy International): "Introducing Adeje Verde – Spain's largest solar community."
- [STATISTICAL DATA](#) (2021, IEA): "Spain's policy to underpin a successful energy transition powered by renewables."
- [STATISTICAL DATA](#) (2021, Smart Rural 21): "Local Energy Community."
- [STATISTICAL DATA](#) (2021, Energy Policy Tracker): "Spain."
- [STATISTICAL DATA](#) (2020, Climate tracker): "Crevillent: Spain's first solar community."
- [STATISTICAL DATA](#) (2020, Energy Communities Hub): "ALBALAT DELS SORELLS ENERGY COMMUNITY."
- [STATISTICAL DATA](#) (2020, Repsol): "REPSOL LAUNCHES SOLMATCH, THE FIRST LARGE SOLAR COMMUNITY IN SPAIN."

PAPERS

- [PAPER](#) (2023, SpringerLink): "Energy Communities in Spain: Challenges in the Transition to Institutionalization."
- [PAPER](#) (2021, DOE PAGES): "Self-consumption for energy communities in Spain."
- [PAPER](#) (2021, ResearchGate): "Local Energy Communities in Spain: Economic Implications."
- [PAPER](#) (2020, Friends of the Earth Europe): "COMMUNITY ENERGY IN SPAIN BRIEFING"
- [PAPER](#) (2020, MDPI): "Scalability of Low Carbon Energy Communities in Spain."
- [PAPER](#) (2019, S-PARCS): "Industrial Energy Cooperation Solutions for Renewable Energy Integration in Spain."

NEWS

- [NEWS](#) (2023, Energy Cities): "Energy efficiency in Spain to improve quality of life."
- [NEWS](#) (2022, La Moncloa): "The Government of Spain approves the More Energy Security Plan."
- [NEWS](#) (2022, IIDMA): "IIDMA urges to facilitate the constitution of energy communities."
- [NEWS](#) (2022, AgroRES): "New model of local energy communities in Spain"
- [NEWS](#) (2021, Red electrica): "Spain's first rural energy community is constituted."
- [NEWS](#) (2020, One Earth): "Crevillent – Spain's first local energy community"
- [NEWS](#) (N/A, LIGHTNESS): "engaging members of the electric cooperative in Spain."
- [NEWS](#) (N/A, Costaluz Lawyers): "New law opens door to more energy efficiency in communities of owners."

MARKET PLAYERS

- [SOM Energia](#): "A cooperative that supplies 100% renewable electricity and offers energy efficiency services."
- [Holaluz](#): "An electricity supplier that offers 100% renewable energy and innovative services to its customers."
- [Ecoooo](#): "A cooperative that promotes RE projects and provides energy consulting services to organizations."
- [Zencer](#): "A startup that develops software solutions for energy communities."
- [Plenum Energies](#): "An energy services company that designs and implements renewable energy projects."

Page 7. Country focus - Switzerland

Page 7 provides market intelligence on energy communities in Switzerland, namely: 9 statistical datasets, 10 papers, 5 news items, and 5 active market players.

STATISTICAL DATA

- [STATISTICAL DATA](#) (2023, Patagonia): "COMMUNITY ENERGY IN SWITZERLAND"
- [STATISTICAL DATA](#) (2022, REN21): "Renewables 2022 Global Status Report Switzerland Factsheet."
- [STATISTICAL DATA](#) (2022, World Energy Council): "SWITZERLAND MEMBER COMMITTEE."
- [STATISTICAL DATA](#) (2021, McKinsey & Company): "The role of the electric grid in Switzerland's energy future."
- [STATISTICAL DATA](#) (2021, Universität Bern): "Acceptance of Renewable Energy Policy."
- [STATISTICAL DATA](#) (2021, Hive Power): "Renewable Energy In Switzerland: What You Should Know."
- [STATISTICAL DATA](#) (2019, CleanTechnica): "Swiss Scheme Demonstrates Successful Peer-To-Peer Trading Of Solar PV."
- [STATISTICAL DATA](#) (2018, Odysee-mure): "SWITZERLAND PROFILE."
- [STATISTICAL DATA](#) (2018, WSL): "Energy cooperatives: renewable energy thanks to strong local roots."

PAPERS

- [PAPER](#) (2022, Archive-ouverte): "Community energy initiatives as a space for emerging new imaginaries?"
- [PAPER](#) (2022, Frontiers): "Future Swiss Energy Economy: The Challenge of Storing Renewable Energy."
- [PAPER](#) (2022, Digital Connection): "Optimization of an energy community in Switzerland"
- [PAPER](#) (2022, MDPI): "Privacy and Auditability in the Local Energy Market of an Energy Community."
- [PAPER](#) (2021, SONNET): "Deep dives into social innovation in energy through investigating SIE in Switzerland"
- [PAPER](#) (2020, Swiss Federal Office of Energy SFOE): "Community energy network with prosumer focus."
- [PAPER](#) (2020, Institute for sustainable futures): "100% Renewable Energy for Switzerland."
- [PAPER](#) (2020, Swiss Academies of Arts and Science): "ENERGY RESEARCH 2020+ in SWITZERLAND."
- [PAPER](#) (2019, CIRED): "QUARTIERSTROM: A LOCAL P2P ENERGY MARKET PILOT ON A SELF-GOVERNED BLOCKCHAIN"
- [PAPER](#) (2019, IOP Science): "The Impact of self-consumption on community solar PV adoption in Switzerland"

NEWS

- [NEWS](#) (2022, Innosuisse): "Simply get green electricity from your neighbour."
- [NEWS](#) (2023, Euronews): "Switzerland's solar dam: Why are mountains and snow the perfect mix for solar energy?"
- [NEWS](#) (2020, SOLIS): "Switzerland renews support for renewables."
- [NEWS](#) (2020, LinkedIn): "Energy communities | Swiss people could soon lay the foundation for renewable energies."
- [NEWS](#) (2021, ETH Zurich): "Software for renewable energy communities."

MARKET PLAYERS

- [Energy 360](#) : "An energy services company that provides renewable energy solutions and services."
- [Swisspower renewables](#): " A renewable energy company that develops and operates renewable energy projects."
- [Alpig](#): "A leading energy company that provides a range of services in energy generation, transmission."
- [EWZ](#): "An energy company that offers renewable energy solutions and services to its customers."
- [Elektra Birseck Münchenstein](#): "An energy company that offers services in energy supply, distribution, & efficiency."

Page 8. In the 'energy community' news

Page 8 addresses energy communities in non-FEDECOM pilot countries, providing: 9 statistical datasets, 12 papers, 3 news items, and a special section on 'cross-border energy communities' comprising 1 statistical dataset and 3 research papers which may be of interest.

STATISTICAL DATA

- [STATISTICAL DATA](#) (2022, ICLEI): "Municipalities and renewable energy communities – a perfect match"
- [STATISTICAL DATA](#) (2022, OECD): "Unlocking the Potential of Distributed Energy Resources."
- [STATISTICAL DATA](#) (2022, Europa): "Share of energy consumption from renewable sources in Europe"
- [STATISTICAL DATA](#) (2022, Renaissance): "Creating an Energy Community."
- [STATISTICAL DATA](#) (2022, European Commission): "Energy communities"
- [STATISTICAL DATA](#) (2022, Sunforall): "Energy communities for a fair energy transition in Europe"
- [STATISTICAL DATA](#) (2022, MAPFRE): "Energy communities, what are they and why are they trending?"
- [STATISTICAL DATA](#) (2020, REScoops): "Energy Communities and Energy Efficiency"
- [STATISTICAL DATA](#) (2020, Eurelectric): "Distribution Grids in Europe"

PAPERS

- [PAPER](#) (2023, University of Cagliari): "Renewable Energy Communities in Positive Energy Districts"
- [PAPER](#) (2022, European Commission): "ENERGY COMMUNITIES #EUenergycommunities REPOSITORY"
- [PAPER](#) (2022, The European Consumer Organization): "Energy communities in the EU"
- [PAPER](#) (2022, Orkestra): "Energy communities. Case studies."
- [PAPER](#) (2022, Dena): "Energy communities: Accelerators of the decentralized energy transition."
- [PAPER](#) (2022, Friends of the Earth Europe): "Energy communities in the EU"
- [PAPER](#) (2021, REScoop): "Annual report 2021"
- [PAPER](#) (2020, ResearchGate): "Energy communities and their ecosystems: comparison of France & the Netherlands"
- [PAPER](#) (2019, ECEEE): "Mapping the energy community cooperation chains."
- [PAPER](#) (2017, Capgemini): "Demand Response: a decisive breakthrough for Europe"
- [PAPER](#) (2016, OECD): "Demand response status in EU Member States"
- [PAPER](#) (2015, IAEA): "Sustainable energy communities: a study contrasting Spain and Germany."

NEWS

- [NEWS](#) (2021, EnergyVille): "PROJECT ACCELERATES THE DEVELOPMENT OF RENEWABLE ENERGY COMMUNITIES"
- [NEWS](#) (2021, Hive Power): "Top 5 Energy Community Projects in Europe"
- [NEWS](#) (N/A, WeSmart): "4 Energy Communities Carving A New Path In Europe"

CROSS-BORDER ENERGY COMMUNITIES ☺!!!

- [STATISTICAL DATA](#) (2022, OffshoreWind): "Denmark and Germany to Build Bornholm Energy Island Together."
- [PAPER](#) (2022, EnergyCities): "Connecting communities to the grid."
- [PAPER](#) (2022, Federal Ministry for Economics Affairs and Climate Action): "Solidarity in the energy crisis."
- [PAPER](#) (2020, IEEE): "Cross-border Energy Communities on a Distribution Grid Level."