

Pitch presentations by Living Labs and Testbeds with validation capabilities

- 10:00 **Intro to the session: B2Match presentation and guidance on how to use it, *Kristina Starborg, SWEA, Sweden***
- 10:20 Regulatory Confusion, Utility Level Disruption & Citizen Confidence, *Dudley Stewart, Tallaght Smart Grid Test Bed, Smart MPOWER, Ireland*
- 10:30 Community Management Tools, *Fatuma Ali-Will, Grid Singularity Exchange Germany*
- 10:40 Renewable Energy Communities and innovative governance models: self consumption + demand-response + ancillary: creating value for local development, *Sergio Olivero, Renewable Energy Community "Energy City Hall", City of Magliano Alpi, Italy*
- 10:50 Green Energy Lab - Benefit from our support for your RDI Project, *Lisa Wolf, Green Energy Lab, Austria*
- 11:00 Smart Energy Applications (SEAp) - Opportunities for CETPartnership Joint Call 2023, *Lars Quakernack, SEAp- Smart Energy Applications, Bielefeld University of Applied Sciences, Germany*

10min break

**Find your partners on the
matchmaking platform!**

Event and Matchmaking Platform



- **Event platform**

- Central events
- Thematic events (Joint Call 2023)

- **Newsletter**

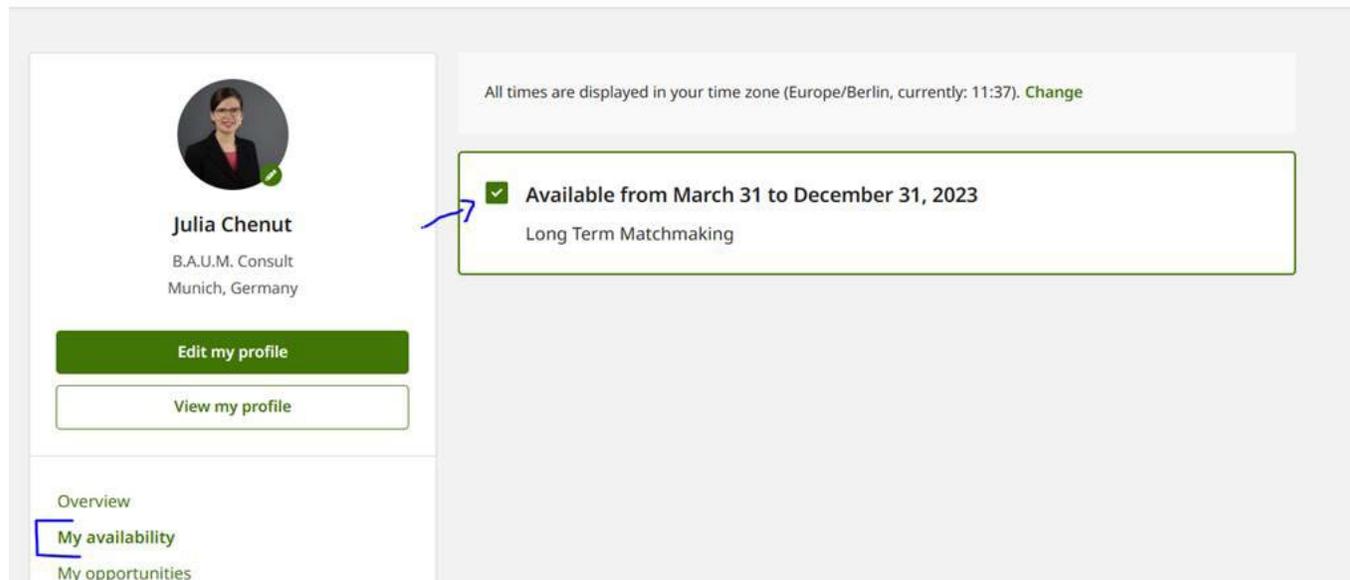
- **Matchmaking**

- Find and get in touch with
 - potential **project partners** for CETPartnership Joint Calls
 - TRI leaders for information

How to set up individual matchmaking sessions?

- If not done already, make yourself available for **longterm matchmaking** under your profile

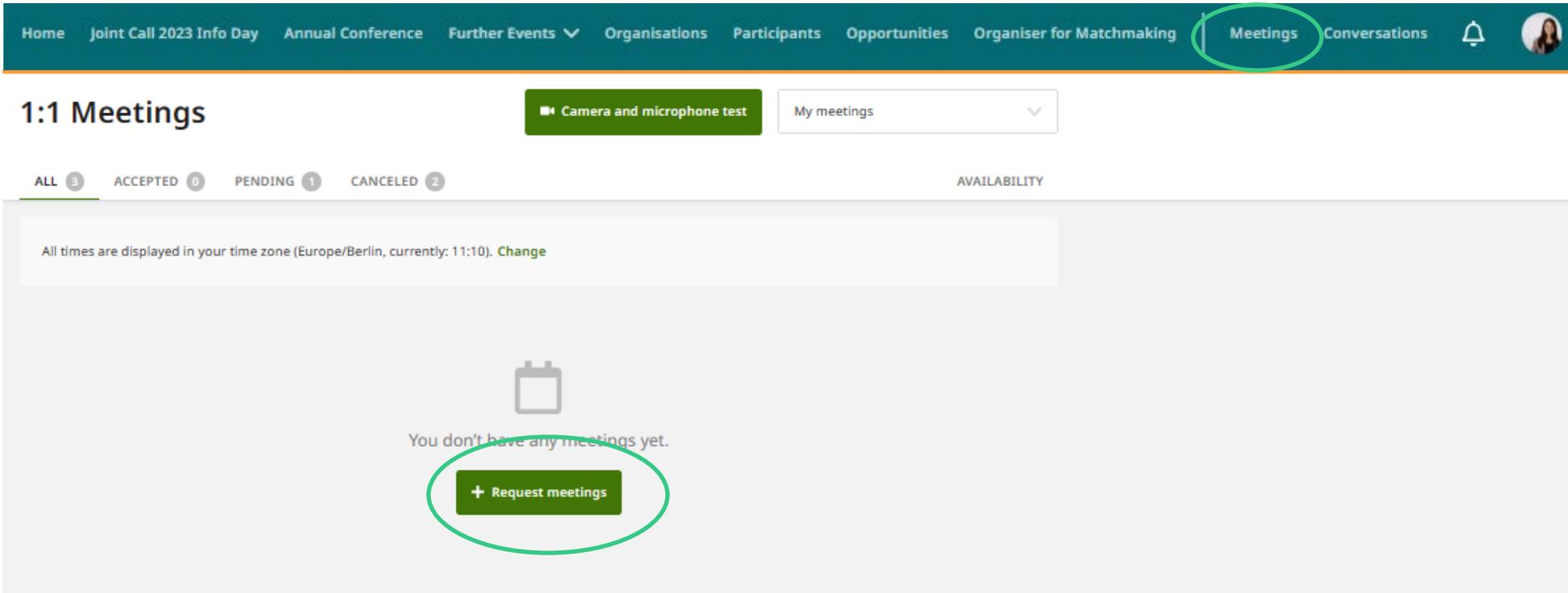
My availability



The screenshot shows a user profile for Julia Chenut. On the left, there is a profile card with a circular profile picture, the name 'Julia Chenut', and the text 'B.A.U.M. Consult Munich, Germany'. Below the profile card are two buttons: 'Edit my profile' (green) and 'View my profile' (white). At the bottom left, there is a navigation menu with three items: 'Overview', 'My availability' (highlighted with a blue box), and 'My opportunities'. The main content area on the right shows a time zone notice: 'All times are displayed in your time zone (Europe/Berlin, currently: 11:37). Change'. Below this is a green-bordered box containing a checked checkbox and the text 'Available from March 31 to December 31, 2023' and 'Long Term Matchmaking'. A blue arrow points to the checked checkbox.

How to find a match? – Step 1

- Go to “**Meetings**” and request meetings



Home Joint Call 2023 Info Day Annual Conference Further Events ▼ Organisations Participants Opportunities Organiser for Matchmaking **Meetings** Conversations  

1:1 Meetings

 Camera and microphone test

ALL **3** ACCEPTED **0** PENDING **1** CANCELED **2** AVAILABILITY

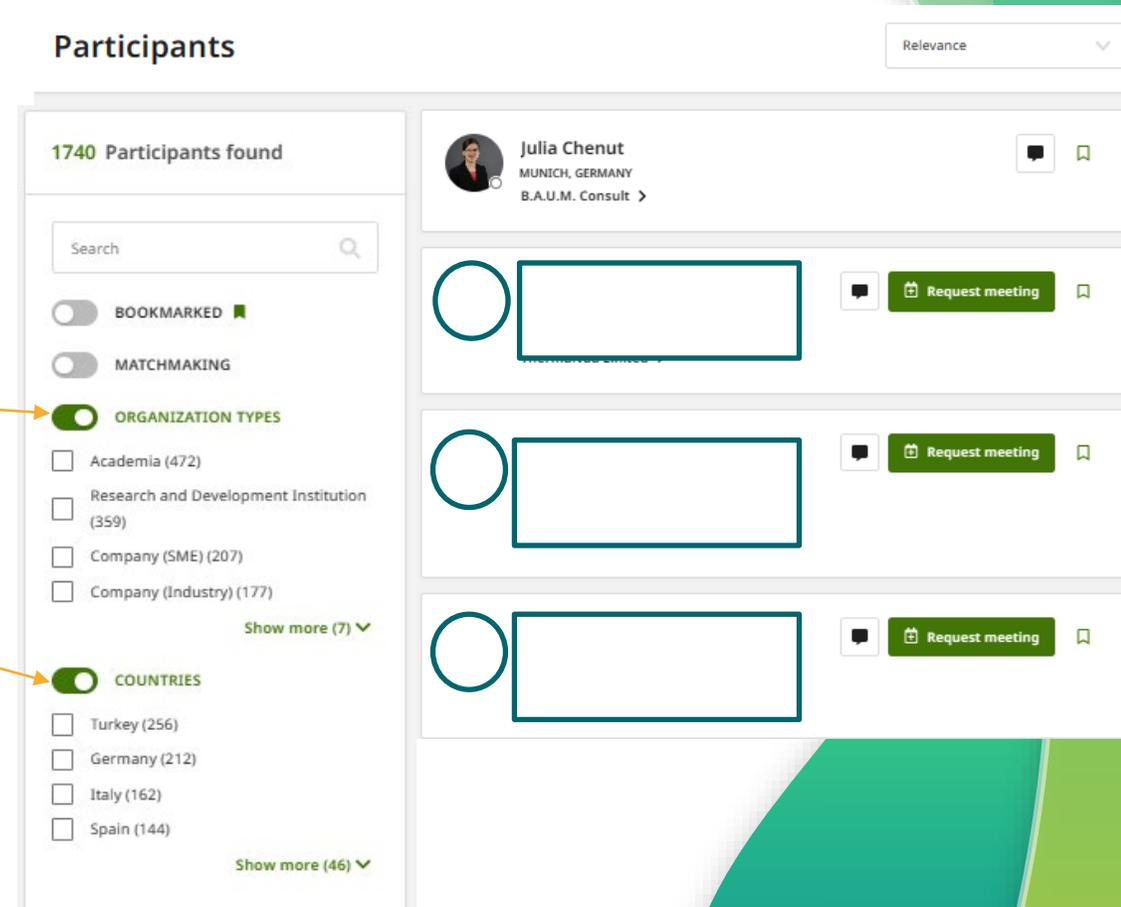
All times are displayed in your time zone (Europe/Berlin, currently: 11:10). [Change](#)


You don't have any meetings yet.

[+ Request meetings](#)

How to find a match? – Step 2

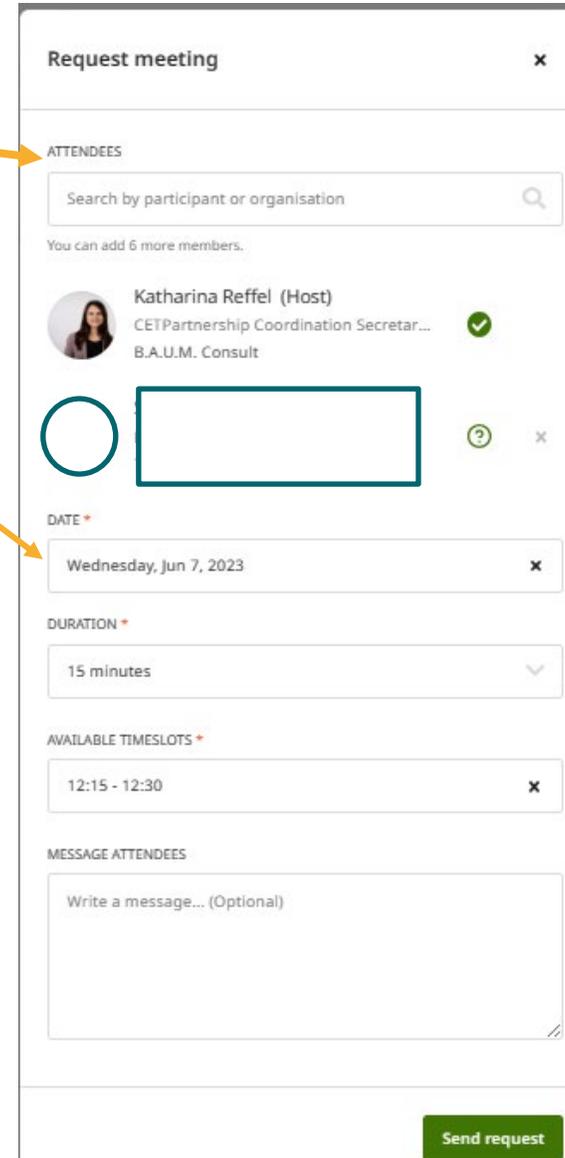
- After clicking on „request meeting“ you will see the **participants** list
- On the left you can filter participants by
 - Organization type
 - Countries
- Click on green button **“request meeting”**



The screenshot shows a web interface titled "Participants" with a "Relevance" dropdown menu. It displays "1740 Participants found" and a search bar. On the left, there are filter sections: "BOOKMARKED" (off), "MATCHMAKING" (off), "ORGANIZATION TYPES" (on), and "COUNTRIES" (on). Under "ORGANIZATION TYPES", there are checkboxes for Academia (472), Research and Development Institution (359), Company (SME) (207), and Company (Industry) (177), with a "Show more (7)" link. Under "COUNTRIES", there are checkboxes for Turkey (256), Germany (212), Italy (162), and Spain (144), with a "Show more (46)" link. The main area shows a list of participants, with the first one being Julia Chenut from Munich, Germany, at B.A.U.M. Consult. Below her are three placeholder cards, each with a "Request meeting" button.

How to find a match? – Step 3

- You can invite up to 6 further attendees
- You can **arrange meetings**
 - today until 6 pm CEST
 - OR send a meeting request for a specific date, time and duration
- other person will be informed via mail and need to accept your suggestion (automatic time zone consideration)



The screenshot shows a 'Request meeting' form with the following fields and options:

- ATTENDEES**: A search bar labeled 'Search by participant or organisation'. Below it, a note says 'You can add 6 more members.' One attendee is listed: Katharina Reffel (Host), CET Partnership Coordination Secretar..., B.A.U.M. Consult, with a green checkmark. A second attendee slot is empty, with a red box around it and a red arrow pointing from the text 'other person will be informed via mail and need to accept your suggestion' in the list to the right.
- DATE ***: A dropdown menu showing 'Wednesday, Jun 7, 2023'.
- DURATION ***: A dropdown menu showing '15 minutes'.
- AVAILABLE TIMESLOTS ***: A dropdown menu showing '12:15 - 12:30'.
- MESSAGE ATTENDEES**: A text area labeled 'Write a message... (Optional)'.
- Send request**: A green button at the bottom right.

Two red arrows originate from the list on the left: one points to the 'ATTENDEES' section, and the other points to the empty attendee slot.

Meeting overview

- To not lose sight you also have a **overview** about your meetings and its status.

1:1 Meetings Camera and microphone test My meetings

ALL 2 ACCEPTED 1 PENDING 1 CANCELED 0 AVAILABILITY

The meetings and sessions schedule is displayed in the Europe/Berlin time zone (the current time is 12:02). [Change](#)

Next meetings

[Redacted]

JC Julia Chenut, B.A.U.M. Consult GmbH

16:30 - 16:50
Wednesday, June 09
Online Video Meeting

MEETING SCHEDULED Cancel Reschedule Invite guests Starts in 4 hours

Received requests

[Redacted]

JC Julia Chenut, B.A.U.M. Consult GmbH

15:15 - 15:30
Friday, June 11
Online Video Meeting

MEETING INVITATION RECEIVED Cancel Reschedule Accept

Opportunities

Opportunities

Add an Opportunity

Opportunities

participants can add an opportunity for:

- project cooperation
- specific service

161 Opportunities found

Search

PROJECT COOPERATION (84)

TYPE

- R&D Partner (33)
- Technology Partner (22)
- Demonstrator (16)
- Validator/Living lab (14)

Show more (3) **v**

SERVICE (77)

TYPE

- Technology Partner (34)
- Validator/Living Lab (29)
- Project Conception and/or Coordination (24)
- R&D Partner (21)

Show more (4) **v**

PROJECT COOPERATION

Updated on September 11, 2023

Call for partners (TRI 7): Circular Industrialisa...

We are looking for partners to submit an Innovation proposal in TRI7 'Integration in the Build Environment'. We have expertise in the adaptation and implementation circular industrialisation throughout the entire value chain of the build environ...



Other Investor R&D Partner +3



Request meeting

PROJECT COOPERATION

Updated on September 11, 2023

IFE (Norway) as an attractive contributor to TRI1 Consortium

IFE are Looking for partners for TRI1

We do have in dept competence and large project portfolio on:

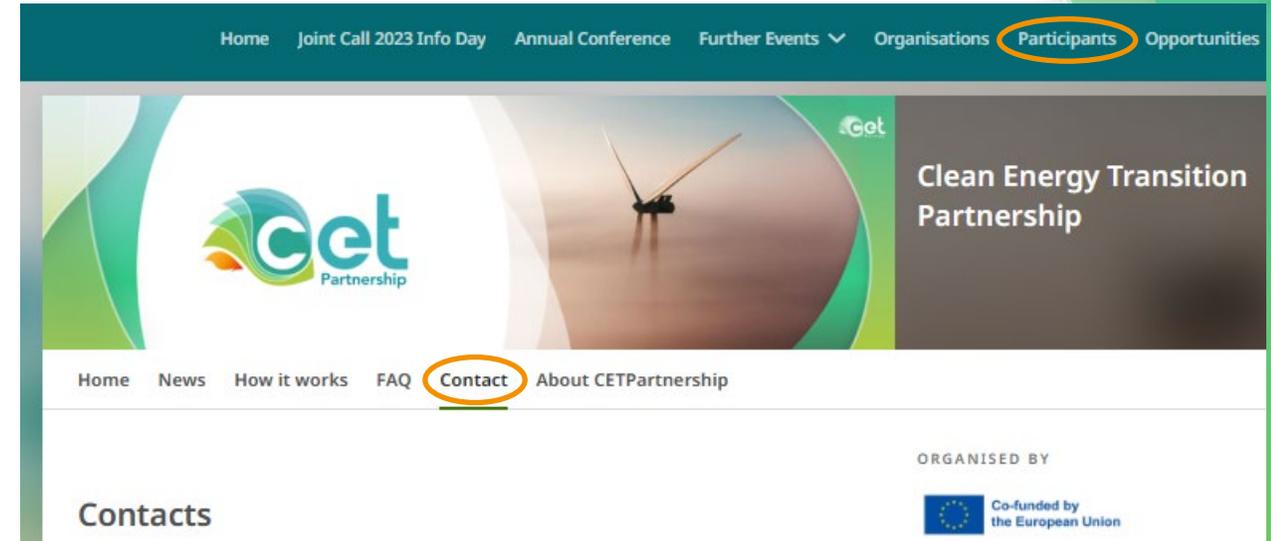
Energy system analysis from European level to custom level

Investor Consultant R&D Partner Technology Partner

Other participants can filter and easily request meetings

Find the TRI offices on b2match under:

- **Contact (Home)**
- **Participants**
- TRI 1: Giuseppe Palazzo, RSE, IT
- TRI 2: Rachele Nocera, MUR, IT
- TRI 3: Aage Stangenland, RCN,NO; Isabel Cabrita, FCT, PT
- TRI 4: Alicja Wiktoria Stokłosa, GEORG
- TRI 5: Angela Berger, FFG, AT
- TRI 6: Tanja Suni, CLIC Innovation, FI
- TRI 7: Thomas Biel, NET Nowak Energy, CH



Contact for matchmaking

- You can also contact us via matchmaking@cetpartnership.eu
- Happy matchmaking!

JOIN THE  **COMMUNITY**

The logo for the CET Partnership features a stylized 'c' composed of overlapping leaf-like shapes, followed by the lowercase letters 'et' in a bold, sans-serif font. Below 'et' is the word 'Partnership' in a smaller, lighter font.



EVENTS
PROJECT MATCHMAKING
NEWSLETTER

bit.ly/CETPartnershipMatchmaking

EUROPEAN PARTNERSHIP



Co-funded by
the European Union

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10min break



The switch depends on increasing energy, flexibility & balancing

Tallaght Smart Grid Test Bed + Digital Platform Validation

Alarmed by Climate Change we have set out on a Global Enterprise to achieve the impossible (almost overnight) to displace fossil fuel, and other existential energy sources, as key energy solutions fuelling our forward movement as a singular organic interdependent and living world.



Energising Smarter Communities

Energy Community Association

Dudley Stewart C. Eng.

ERA-Net - Expera





Thank You - for the opportunity to report on progress in Ireland here today. Both the energy community association MEGA, and its commercial offspring MPOWER, are working across many countries and can see clearly that some countries are moving faster to advance energy communities than others. There are many different versions of progress in Ireland but also problems – certainly **there is a unique opportunity right now here to reboot with guidance from better experienced organisations in Europe.**

I propose to provide full readable text in this ppt while racing through the more important headings in this talk due to time constraints.

May I start by racing through feedback from the ground?



Community/Citizen experience from the RES Field (c.50 years) has been sporadic disruptive & un-enticing.

Confused Feedback from over 25 Communities:

- **Question frequently asked: Are all EU Members States experiencing the benefits of the CEP & REDII evenly?** Are Utilities & Academics usually so carelessly disruptive? Surely it is not true that giant windmills can replace fossil fuel alone? Is money the key and aren't big business, banks and economists the real "drivers"? **Don't banks see Communities as local amenities rather than solutions to the Energy Transition?** (Questions asked at community level)
- **Elsewhere have energy communities found their long-term pivotal role in the formation of local energy solutions** such Autonomous Energy or VPPs? (SME questions)
- **Are some Countries falling behind, confused, swamped by lengthy consultations, bombarded by reports & submissions and drawn into short term pilot projects.** Do future communities require the same level of Grid-wise and Economic & Technical Savvy as the main market players or will the Member States and Local Authorities really protect their interest and advise them well and on time? What do recent events show? (General questions)



Tallaght Smart GRID

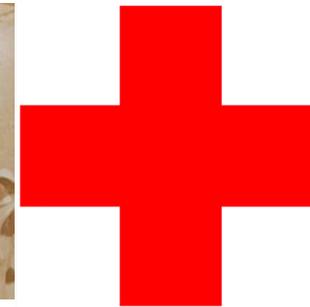
Regulatory Confusion, Utility Level Disruption & Citizen Confidence

2023: CETPartnerships for Collaborative Action & Validation



The title of this presentation raises uncomfortable & unpopular questions. This webinar is for **“pitching”** ... and we here do need help. This Webinar opens-up the prospect of bringing to the surface informed solutions, through **“one union of people” with the power to collaborate to achieve the best possible & progressive Clean Energy Transition – A Clean Energy Transition (CET) that does not trash the agreed UN Sustainable Development**
The key mantra must be **“Waste Not Want Not”** ... **THIS IS MY PITCH TODAY.**

Here today we are discussing innovation, and development, but **we must not forget the casualties - “crushed innovators”**. Recent IEA, and other studies, high levels of start-up failure with the loss of good innovators – many casualties of the Green Deal **“Gold Rush” – knowledgeable, people teams and entities are scarce and valuable even if currently un-fundable – this is WAR.** Too many actors (Communities, Citizens and SMEs) who have DER/RES experience and learned so much have already been prematurely lost – slow implantation of support schemes, utility level barriers and ill-informed institutions. ... *We recommend reform here - clever ways to recover these lost “CET Warriors”, clean their wounds and bring their knowledge and experience into play to “Win This CET War”*



Is there a case for a “Red Cross” rescue service for the CET “war-wounded”?



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Regulatory Confusion, Utility Level Disruption & Citizen Confidence

2023: CETPartnerships for Collaborative Action & Validation



The context of this presentation is Ireland but the issues raised seem to be more widespread. **“Regulatory Confusion, Utility Level Disruption & Citizen Confidence”** consequences of the speed of forcing change - likely realities of the kind of mess that can come out of a government driven once-in-a-lifetime Clean Energy Transition emergency. A transition where the pros are not quite as strong as the cons – We have witnessed some signs of strategies learned well from the book of the old Tobacco Industry - - disrupting the science, and tinkering under the bonnets, of the Living Labs and Test Beds that show promise – **“tinkering”** to the point of slowing down progress and engineering failure if not simply derailing good prospects altogether”. The Energy Community Association MEGA having lived through over 25 Energy Community start-ups and more than 50 stymied SMEs – there is a need to recognise that innovation, at a small scale, is easily disrupted by the old guard. **While we sit together and discuss scientifically what is possible and good – barriers remain high and traditional players strong and smart at “disruption”** – The Clean Energy Transition is seeking to mobilise, and combine, medium, small and micro-scale solutions – all vulnerable in the early years. **MONEY TALKS** and state-owned bureaucracies can be easily recruited into the ranks of the old guard. The rules can be used in many ways. Some “die by the rules”, others are engulfed by the clever ways that the rules can be deployed to undermine the Clean Energy Transition and **steadily erode European Values.**



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Regulatory Confusion, Utility Level Disruption & Citizen Confidence

2023: CETPartnerships for Collaborative Action & Validation

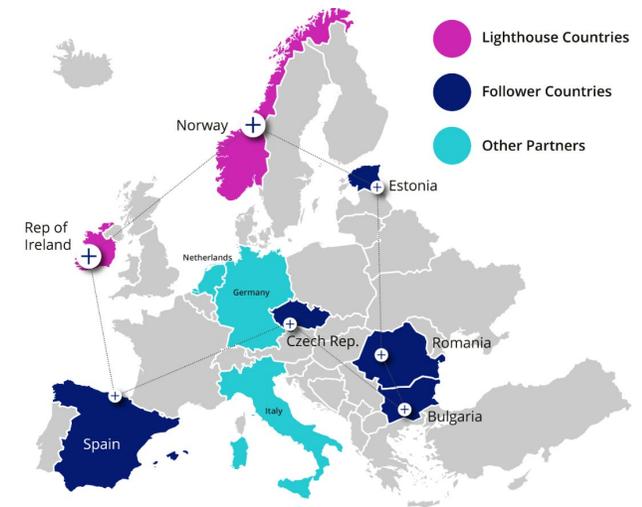


Work on the deployment of the Clean Energy Package under EU Lighthouse Smart City started in Limerick City in 2018, involving 32 Partners including 6 other EU Cities. Positive City Exchange will conclude in 2023 and feed into the regulatory process. Key here is the Community System Operator (CSO)

Joint DSO-CSO Conclusions:

- **“It is anticipated that the services being offered by a CSO will involve a mix of technical and community-focused services,** albeit the detail of each is not yet understood and will emerge as trials and pilots progress.”
- **“The necessity to minimise duplicative infrastructures, processes and organisational structures, in the interest of reducing the cost burden of CSO establishment and operation on end consumers of electricity is critical”.**
- “This objective needs to be considered in the context of an electricity system which undergoes continual change with new generation and load connections, infrastructure upgrades etc. and with recognition that the necessity for a non-wires-alternative to network reinforcement, i.e. flexibility, can be transient over time in line with such electricity system changes. **Enduring arrangements need to consider mechanisms to protect electricity consumers from bearing the stranded costs for CSO infrastructure, processes and organisational structures in these situations.”**
- **“CSO scale is also a factor for consideration and has a bearing on the feasibility of regulation”.**
- **“Scale is also important for the CSO to ensure it has the financial strength and sufficient enduring resources to provide the services mandated by the regulator across its communities “**

+CXC 2022



Trial Implement CEP-REDII – www.cityxchange.eu
>Common Energy & Flexibility Market (Local Positive
>Energy District Trondheim & Limerick
>CSO (Grid Edge) – Community System Operator
>DSO – CSO: System & Citizen integrated Operation

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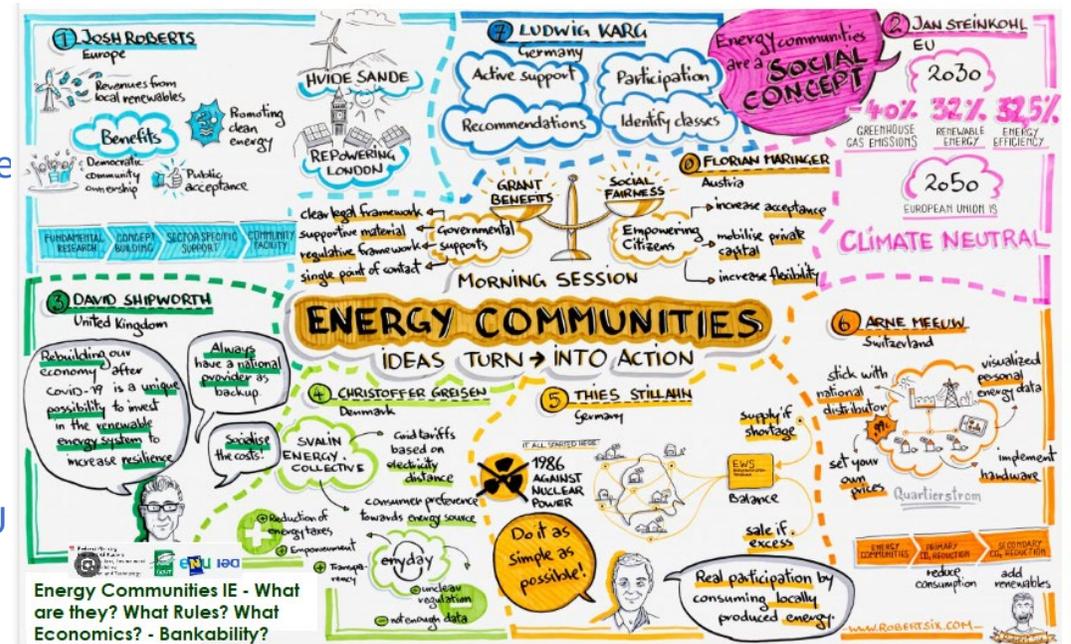
Regulatory Confusion, Utility Level Disruption & Citizen Confidence

2023: CETPartnerships for Collaborative Action & Validation



In 2021: “Sudden Halt in CRU Energy Regulator Design & implementation of the CEP-REDII “ Framework for Energy Communities & Energy Sharing by request of the System Operator due to the Energy Emergency following COVID with the consequential derailment of Positive City Exchange CRU model.

The CRU (Commission for Regulation of Utilities) on 7th of June 2023 stated “In 2021 and 2022 Ireland faced a crisis of energy security and pricing. This was caused by the immense challenge of escalating gas prices as a result of the war in Ukraine and was further exacerbated by a short-term lack of supply. In response to the current energy crisis the CRU reprioritised its work to ensure safe, secure supplies of energy for the public, and to increase customer protection measures. **As a result of this reprioritisation the CRU did not make as much progress on CEP implementation in 2022 as originally planned.** The CRU however continued to engage with the Department of Environment, Climate and Communications (DECC) on the transposition of each of the relevant articles set out in the Directives1



**What will a CITIZEN ENERGY COMMUNITY be?
How will it be operated or economically viable?**



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Regulatory Confusion, Utility Level Disruption & Citizen Confidence

2023: CETPartnerships for Collaborative Action & Validation



PAST: 2018 – 2022 – Collateral Damage

+CXC SCC01 - CEP & REDII
Uncertainty by Legislative Vacuum

CRU Energy Regulator Framework for Energy Communities
Common Energy & Flexibility Market
Positive City Exchange

COVID SLOWDOWN

Loss of Citizen Confidence + SME Losses

ENERGY EMERGENCY STOP

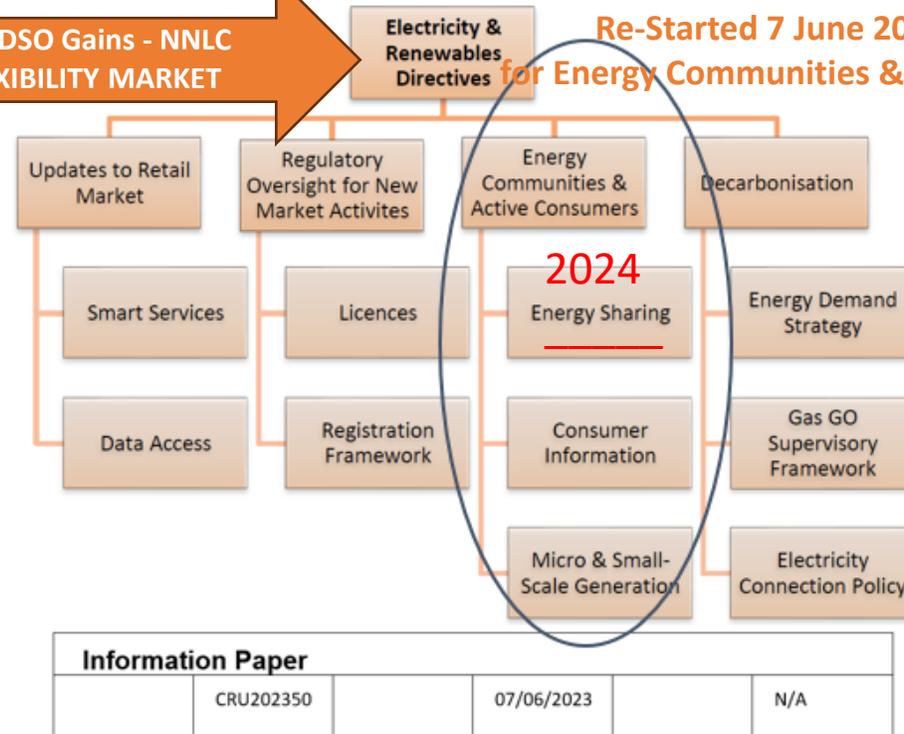
Loss of Citizen Trust + severe SME Losses

Roadmap for the Clean Energy Package's Electricity and Renewables Directives 2023

Commission for Regulation of Utilities CRU

Big DSO Gains - NNLC FLEXIBILITY MARKET

Re-Started 7 June 2023: Framework for Energy Communities & Energy Sharing



Quote French Prosumer in Limerick: "plus ca change, plus ca reste le mêmes »



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Regulatory Confusion, Utility Level Disruption & Citizen Confidence

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Additional Feedback from MEGA Members

- **Most** – EU Directives are “on the Ball” but many of these are then **distorted locally** by fears of energy supply disruption etc.
- **Most** – Utilities want zero interference just **Business as Usual** – they want to sell to citizens and make their own choices building their empires and staying alive against fierce competitive forces from all sides.
- **Most** – Academics are bound to **institutional objectives** (Research Funding often the Key Driver)
- **Most** – Politicians, Advisors and Business Analysts dare not admit that they know little of the consequences of their prognostications. This is uncharted Territory.
- **Most** – Communities grow out of immediate need (**DairyGold Coop 1900 IE**) – but the Clean Energy Transition Gurus know that waiting for “immediate need” to become the motivation for strong community enterprises will be too late – we learned this in Asia & Africa **The Energy Community Movement is driven by Government – This is clearly a first for the EU!**
- In Many countries community enterprises have gone viral in the past – This is no longer common in the Western Economies --- “viral” now equates to celebrity or short-lived “influencer”. **What then is the Formula X Engine to fire up the Energy Community Enterprises to build the scale, and know-how, to fill the gaps in the energy supply solution to enable Zero Carbon and involve fully Citizens?**



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Thank You All

Please

Q & A
If you wish?

smart@mpower.ie



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10min break

Energy Community Management Tools

4 October 2023

Contact

Fatuma Ali-Will
fatuma@gridsingularity.com

Links



Grid Singularity: Who we are

Grid Singularity is an awarded, open source energy technology innovator, placing the individual and the environment at the centre of the energy market by developing the energy exchange to operate peer-to-peer energy marketplaces, including energy communities, and cofounding the Energy Web Foundation (EWF).



Grid Singularity Exchange : Bottom-Up Market Approach

Unlocking market access, new degrees of freedom in energy trading and scaling energy communities

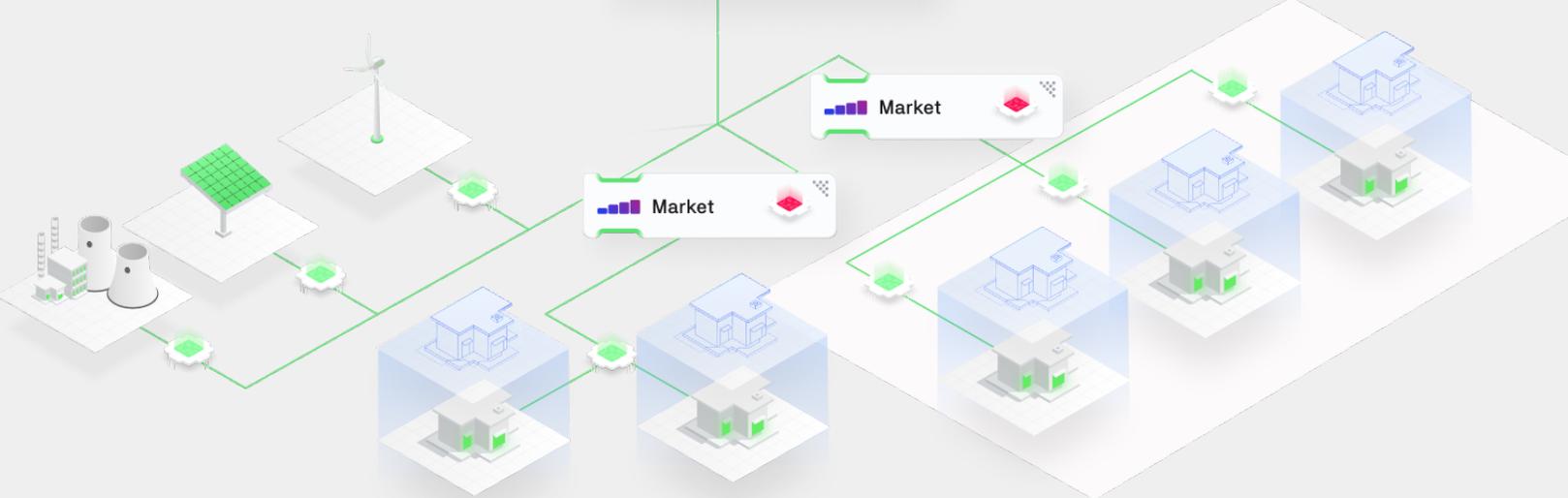
Where do you want to buy / sell to ?
What do you want to buy / sell to ?
Who do you want to buy from / sell to ?

A market may have multiple exchanges

-  Asset API
-  Grid Operator API
-  Agent (Digital Twin)

Markets

-  Market
-  Market





Web-based simulation tool
(operational, continuously upgraded)



Energy community management / local energy exchanges
(in development, PoCs undertaken)

Web-based simulation tool:

gridsingularity.com/singularitymap



Visualise the (real or potential) performance of a home and community in a local energy market



Assess economic and environmental benefits of joining or creating an energy community based on own data input or our templates



Select the best energy configuration for home / community (KPIs: bill, self-consumption, self-sufficiency)



Advanced mode unlocks more features e.g. custom PV





Social Community Manager (SCM)



Visualise, assess and optimise individual and community energy use and flows



Apply the energy community pricing mechanism based on local regulation (currently static/dynamic coefficient mechanisms i.e. self-consumption schemes & community trading) & enable dynamic grid tariffs to source flexibility



Facilitate access to smart trading strategies to optimise energy assets



Generate energy accounting information for easy and transparent billing



Foster community engagement and growth

Where/when possible:



Customise energy preferences, such as a source of energy or trading partner

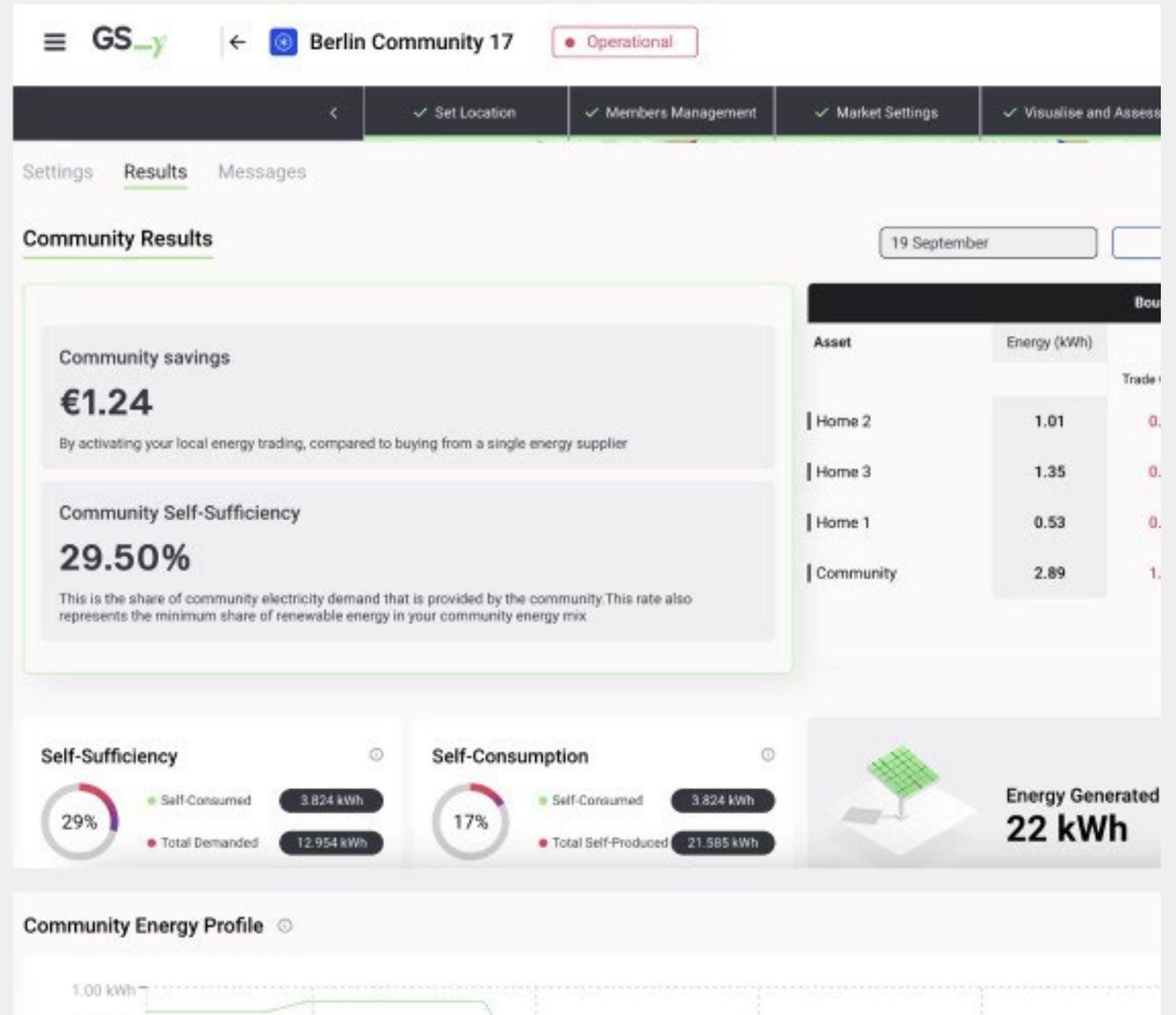


Implement full, market-based peer-to-peer trading, with more individual choices

Social Community Manager (SCM)

Community Manager Portal

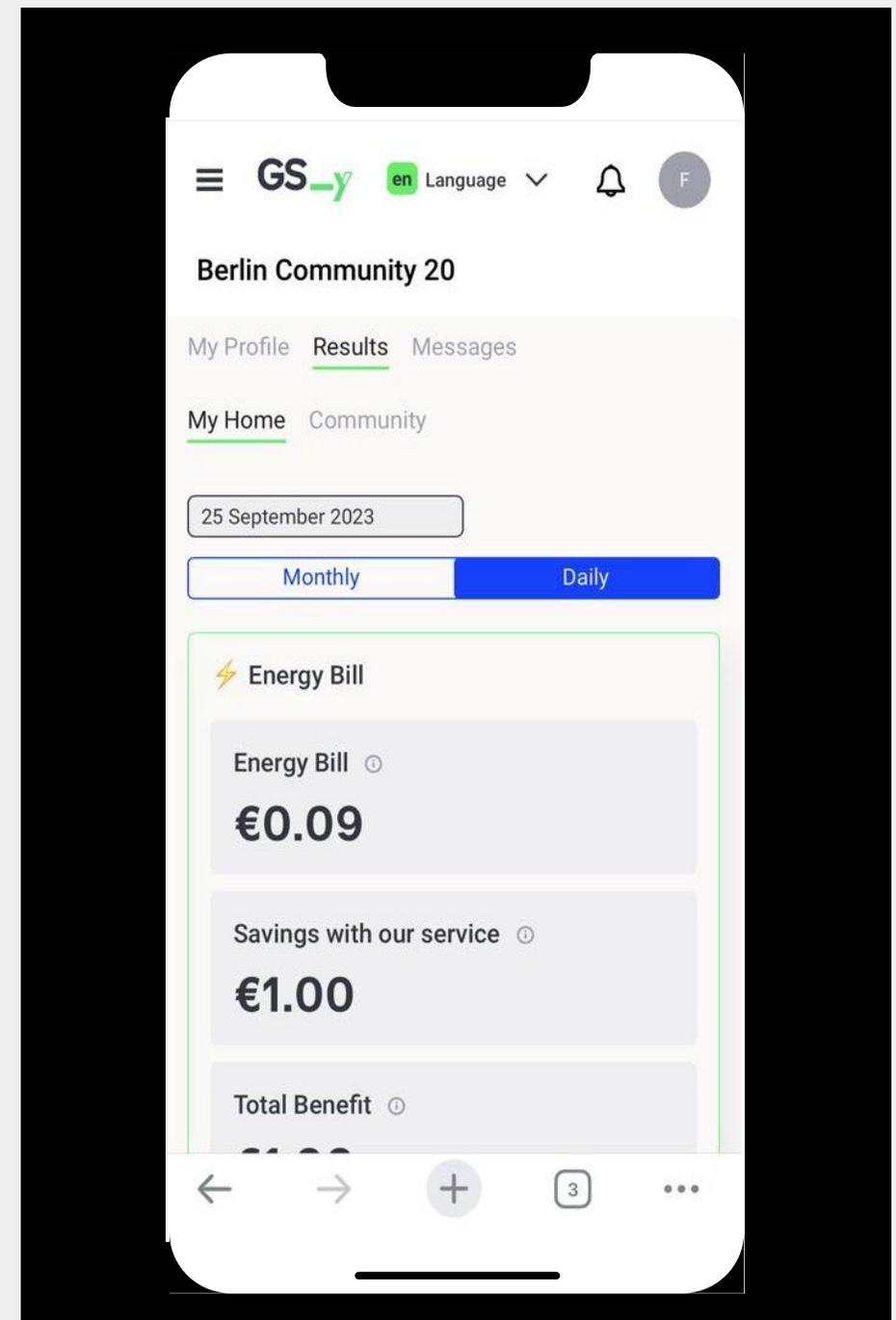
- Option to run a simulation to assess the benefits for community members
- Guided member management, community configuration and operation, monitoring and analysis
- Real-time results dashboard with both community and individual results
- In-app messaging portal to communicate with community members



Social Community Manager (SCM)

Community Member App

- Mobile friendly
- Individual and aggregate community results in real time
- Electricity production, consumption and surplus generation sold to the external grid in real time
- Other environmental metrics like self-sufficiency and self-consumption
- Language customisation
- In-app messaging by community manager
- Share function to invite friends and family to join energy community





Contact

Fatuma Ali-Will

fatuma@gridsingularity.com

Links

