BRIDGE at ENLIT

30 November – 2 December 2021

EU Project Zone programme

Draft AGENDA		
1st Session on 30th November 2021		
TIME	***Title and Moderators***	***SPEAKERS***
14:00 – 15:30	***Flexibility market mechanisms across Europe*** **Moderator:** • **Manuel Serrano** – BRIDGE Regulation WG Chair and CROSSBOW Coordinator	**Panellists and projects presented:** • **Antonio Iliceto** - ETIP SNET WG1 co-chair • **TRINITY** - Álvaro Nofuentes -ETRA • **PHOENIX** – Dr. Mihai Paun - Director Development and Innovation & co-founder of the Professional Association - Romanian Energy Center (CRE) • **Coordinet** – Matteo Troncia -Comillas • **INTERRFACE -** Nikolaos Bilidis- Electrical and Computer Engineer at Eurodyn • **EUniversal** - Susete Albuquerque – Business developer at E-REDES

Scope of Session

Providing feedback from project experiences to the preparatory work for a possible network code on flexibility markets (also as implementing provisions of the Electricity Regulation); What are the R&I priorities based on projects experience.
In specific:

- **Investments versus flexibility:**
  - **How is your project addressing flexibility and its role for system operation?**
    - What are expected services and related flexibility products proposed in support of ASM?
    - How can system operators make a trade-off between grid investments on the one hand and the use of flexibility on the other hand?
  - **Mention your demo sites (if any)**
- **Local Flexibility Markets:**
  - **How is your project addressing the options for Local Flexibility Markets and the impact on system operation?**
    - Impact on roles and responsibilities of system operators
    - Impact on TSO-DSO coordination
    - Alignment between local flexibility markets and grid tariffs/connection agreements
- **Regional integration**
  - How your project addresses Regional integration
- **Lesson learnt from your project**
  - What are perceived barriers/enablers (technical – economical – regulatory) for the solutions developed
  - Formulate concrete lessons learnt/recommendations
  - If still no lesson learnt, just focus on next steps

Panellists profiles

Antonio Iliceto - ETIP SNET WG1 co-chair

BIO: International Relations Terna Rete Italia - Electrical Engineer, he started work in Africa for United Nations technical cooperation. For a decade in Oil & Gas major ENI- AGIP in Strategies, Investments Planning, Merging& Acquisitions. Since 2001 he is with Terna, Italian TSO, covering several positions in: Power Market initial set-up and Settlement, International Business Development, Technology Engineering, Grid Planning, Realisation of several Interconnection projects, Despatching. Since 2013 he focuses on R&D & Innovation, cooperation and coordination among TSOs, in EU funded project Best Paths (Chairman of Consortium), in ENTSO-E (Convenor of Working Group "Future Energy Systems" and past Convenor of WG "RDI Planning" in the Committee Research, Development and Innovation), in ETIP SNET (EU Platform for energy cross–sector coordination of R&D & Innovation): vice-chair of the Governing Board and past Chairman of WG1 on Grids & System View. In CIGRE as incoming Chairman of Study Committee C1 (System Development & Economics) and convenor/co-convenor of several WG authoring Technical Brochures . He is also active in MedTSO (Association of Mediterranean TSOs, TC3 management team), IEC ACTAD (

Advisory Committee on T&D, co-chair of TT4 on Global Grids), ISGAN (alternate of Cahirman and member of Annex6 on T&D systems), Dii - Desert Energy (member of Advisory Board and of several technical WGs), AEIT – LEE (Italian Electricity Journal as Editorial Board member and reviewer).

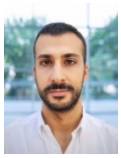
- **TRINITY Project**- **Álvaro Nofuentes** – Project Manager - ETRA

BIO: Álvaro Nofuentes holds an Engineer's Degree in Industrial Technologies and a Master's in Industrial Engineering (specialization in Energy Management) from the Polytechnic University of Valencia. He is currently working at ETRA I+D as Project Manager of EU-funded projects. Álvaro was the Project Manager of WiseGRID and he is currently the Project Manager of TRINITY. Álvaro is also former Chair of the Customer Engagement Group in the BRIDGE Cooperation group of H2020 Smart Grids and Storage projects.

- **PHOENIX** –Dr. Mihai Paun Co-Founder and Director Development and Innovation Romanian Energy Center - CRE

BIO: Dr. Mihai PAUN is Director Development and Innovation & co-founder of the Professional Association - Romanian Energy Center (CRE) acting in Brussels.
Experience of more than 30 years in the electricity industry, at managerial and executive level in electricity Transmission, Distribution and Generation, in both national and international environment. Active in coordination of EC and EIB funded Projects on Cybersecurity, Digitalization of the Electricity Sector, Smart Grids, Critical Infrastructure Protection and Grid Investments.
Recently Senior Project Manager at EIB and at Mediterranean Transmission System Operators for Electricity - Med-TSO. Network and System Development adviser at the European Networks of Transmission System Operators for Electricity - ENTSO-E for more than 6 years, responsible for the preparation of the nonbinding European-wide Ten-Year Networks Development Plan - TYNDP, HV Electricity Infrastructure, Smart Grids, Electricity Highways.
Energy Policy and Networks adviser at EURELECTRIC – Union of the Electricity Industry in Brussels for more than 8 years.
Member of the Board of the Electricity Distribution System Operator ELECTRICA - Electricity Distribution Subsidiary "Electrica Distribuție Muntenia Nord" SA (EDMN) – 4 years.
Head of Development and Innovation Section & EU Programs and Projects Manager at CRE.
Rapporteur – WG Regulation in BRIDGE Initiative - Cooperation group of Smart Grids and Energy Storage H2020 projects.
Appointed Member of the European Economic and Social Committee – ECOSOC Section for Transport, Energy, Infrastructure and the Information Society - TEN/211; Independent Expert evaluator for the EC FP6, FP7 H2020 Energy and ICT Projects.
PhD degree in Power Engineering and a Master degree in Financial Management and Banks.

- **Coordinet** – **Matteo Troncia** - PHD at the Institute for Research in Technology (IIT) at the Engineering School (ICAI) of the Comillas Pontifical University



BIO: Matteo Troncia is a postdoctoral researcher at the Institute for Research in Technology (IIT) at the Engineering School (ICAI) of the Comillas Pontifical University. In 2021, he received the PhD degree in industrial engineering from the University of Cagliari (Italy). During his PhD, Matteo was with the Power System group of the Department of Electrical and Electronic Engineering (DIEE). Currently, Matteo is part of the Smart and Sustainable Grids research area of IIT. His activity mainly concerns research projects on power system innovation and electricity markets for integrating renewables and distributed energy resources, such as CoordiNet, OneNet, EUniversal. Matteo's current research interests are: electricity actors coordination, electricity markets, system services market design, techno-economic appraisal of initiatives related to the electricity sector. From January 2021, he is co-responsible for the ISGAN Academy of the International Smart Grid Action Network (ISGAN), a Technology Collaboration Programme supported by the International Energy Agency (IEA).2

- **INTERRFACE** **-** Nikolaos Bilidis

BIO: Nikos Bilidis is an Electrical and Computer Engineer. He obtained his Dipl. – Eng. Degree in 2014 from Aristotle University of Thessaloniki, Greece, with a specialization on Electrical Power Engineering. He holds an MSc on Sustainable Energy Technology from Delft University of Technology in the Netherlands. His expertise lies in modelling, management and control of micro-grids, renewable energy technologies, power systems' management and energy markets. He currently works as an R&D Project Manager for European Dynamics and he is involved in energy-related H2020 projects, such as INTERRFACE, FLEXITRANSTORE, BD4NRG, among others, both in the coordination but also in research-related activities.

- **EUniversal** – Susete Albuquerque

BIO: Susete Albuquerque is a Chemical Engineering, with specialization in Biotechnology from the Technical University of Lisbon (1994), with a post-graduation in Marketing from the Catholic University of Portugal in Lisbon (1998) and an MBA from Católica Lisbon University (2004).
Since 1996 she was responsible in management offices under the supervision of Ministry of Economic Activities and Labor regarding the analyses and evaluation of projects for the granting of incentives under EU FEDER fund. Currently she is working in E-REDES supporting business development responsibilities in the European Policies and Projects Direction.

Draft AGENDA

2nd Session on 30th November 2021

TIME	*Title and Moderators*	*SPEAKERS*
15:45 – 17:15	**The role of the business models in provision of flexibility** **Moderator:** **Andrej Gubina –** BRIDGE Business Model WG Chair	**Panellists and projects presented:** • **Natalie Samovich** ETIP SNET WG1 Chair • **XFLEX** - Chloé Fournely- University of Ljubljana • **MERLON** - Chrysanthopoulos Nikolaos - Imperial College London • **ELAND**: Heidi Tuiskula- Deputy Head of Research, Smart Innovation Norway • **Coordinet** - Carlos Madina • **TRINITY** - Álvaro Nofuentes -ETRA • **FLEXISTRANSTORE** - Thong Vu Van -CEO of EMAX

Scope of Session

Focus presentations and discussion on the results of the projects, in line of the following questions:

- **What did you learn from your project, how digitalization could help in implementation?**
- **What barriers did you face?**
- **Which solution involving digitalization would you need to overcome them?**
- **How can /could your project business models or activities benefit from digitalization to make the positive business case?**

Panellists profiles

Natalie Samovich ETIP SNET WG1 Chair

BIO: Natalie is heading Research and Innovation projects at Enercoutim within digitalisation in energy domain, DER RES solar and green hydrogen. She is based in Lisbon, with the Solar Demonstration platform and Solar Lab projects located in the Algarve region. The Solar Demonstration Platform was co-founded in 2011 and established an innovative shared renewable infrastructures awards nominated model.
Natalie contributes her expertise as an expert in ETIP-SNET WG1 and co-chairs the group. She Chairs Working group on Smart Energy in the Alliance of IoT Innovation (AIOTI) and member of SB. She is actively engaged in H2020 program and manages a number of projects. She also serves as an advisory board member for R&I projects and through mentorship programs.
Natalie holds MBA from U of Rochester, Simon school and U of Bern; MSEng in Sustainable Energy Systems from MIT Portugal Program (IST/MIT), PhDc. The research interests are within renewable energy systems digitalisation, Internet of Things impact on energy systems and the related socio-economic impact issues within smart grids as well as topics related to Sector coupling and GH2. She co-authored several papers on interoperability and the related business models in the energy sector.

- **XFLEX** - Chloé Fournely- University of Ljubljana

BIO: Chloé Fournely completed her master's degree in Physics Engineering at the Polytech Clermont-Ferrand engineering school in September 2019. In the same year she did a 6-month internship inside the University of Ljubljana team helping with the activities related to H2020 CONSEED project and the organisation of the EEM19 conference. She joined the University of Ljubljana in February 2020 as a researcher. Her work is mostly focussed on H2020 EU projects X-FLEX and COMPILE. Within the project X-FLEX, she is developing various forecasting models as well as the MARKETFLEX product, which establishes new local electricity and flexibility markets.

MERLON - Chrysanthopoulos Nikolaos - Research Associate, Imperial College London

BIO: Nikolaos Chrysanthopoulos is a Research Associate in the Department of Electrical and Electronic Engineering at Imperial College London. He holds a Diploma in Electrical and Computer Engineering and a PhD in Game Theory and Optimization, both from National Technical University of Athens. His doctoral research focused on the study of energy markets and on supporting decision making in that context. He has also been awarded a BSc in Management Science and Technology and a MSc in Economics degree, both from Athens University of Economics and Business. His current research interests lie on the area of game-theoretical and market-based approaches for supporting decision making in the energy sector. He is involved in several research projects of the Control and Power Research Group, while his work in MERLON project is around the analysis of business models that can support further the development of local energy systems in Europe.

- **ELAND**: Heidi Tuiskula- Deputy Head of Research, Smart Innovation Norway

BIO: Heidi Tuiskula holds MSc in Electrical Engineering from Tampere University of Technology, Finland and PgDip in Hydrogen Safety Engineering from University of Ulster, Northern Ireland.
At her current position as the Deputy Head of Research at Smart Innovation Norway she is responsible of managing the development of the department and its employees. In addition, she is the Scientific Coordinator of the H2020 project E-LAND and tries to find time to contribute to the hands-on research activities especially in the field on end-user engagement and business creation whenever she can.

- **Coordinet** - Carlos Madina

BIO: Carlos Madina is a senior research engineer for TECNALIA's Energy and Environment Division. Carlos obtained his M.Sc. degree in Industrial Engineering in 2001 and his Ph.D. in Electric Power Systems in 2018, both at the University of the Basque Country.
Since 2001, Carlos has focused his career in the economic analysis of innovative business models for DER (Renewable Energy Resources, Combined Heat and Power, Active Electricity Demand Response, Microgrids and Electric Vehicles), mostly in the European context. In order to perform the analyses of business models, Carlos also gained knowledge about the regulatory frameworks and electricity market conditions in several European countries, including Spain, the UK, Germany, France, Italy, Denmark, Belgium, the Netherlands…
His career started with the BUSMOD project, where he participated in the adaptation of the e3value methodology from the realm of e-commerce to the brand-new environment of distributed generation in the early years of the 21st century. Carlos has used this methodology to lead the economic and business models analyses in several publicly co-funded projects, including some of the major smart grids projects in the EU Framework Programmes 6 and 7, and in Horizon 2020 (EU-DEEP, FENIX, ADDRESS, GREEN EMOTION, PLANGRIDEV, UPGRID, SMARTNET, COORDINET…), as well as in dedicated projects for the main Spanish utilities and the TSO. In addition, Carlos participated in the Task XVII (Integration of Demand Side Management, Energy Efficiency, Distributed Generation and Renewable Energy Sources) of the IEA/DSM agreement.
He co-authored several scientific publications, 15 of which are indexed in Scopus, and specialised conferences. He is also co-author of a book about TSO-DSO coordination, another one about Demand Side Management, and a third one about Hydrogen technologies. He is also a regular reviewer in two Q1 scientific journals and supports the Spanish Government in the revision of project proposals for different National R&D Programmes. He has also reviewed proposals for KIC INNOENERGY, as Tecnalia has a framework agreement with KIC INNOENERGY IBERIA S.L. to provide a technical assessment service.
He has also contributed to different international working groups (CIGRE C5.28 about Price Formation in Wholesale Markets, WindEurope's System Integration WG, Futured's Flexibility WG, BRIDGE's Data Management and Business Models WGs).
He is now leading the WP about Markets and platforms to coordinate the procurement of system services from large-scale and small-scale assets connected to the electricity network in the CoordiNet project.

- **TRINITY Project**- **Álvaro Nofuentes** – Project Manager - ETRA

BIO: Álvaro Nofuentes holds an Engineer's Degree in Industrial Technologies and a Master's in Industrial Engineering (specialization in Energy Management) from the Polytechnic University of Valencia. He is currently working at ETRA I+D as Project Manager of EU-funded projects. Álvaro was the Project Manager of WiseGRID and he is currently the Project Manager of TRINITY. Álvaro is also former Chair of the Customer Engagement Group in the BRIDGE Cooperation group of H2020 Smart Grids and Storage projects.

- **FLEXISTRANSTORE** - Thong Vu Van -CEO of EMAX

BIO: Thong Vu Van is the founder and CEO of EMAX, a greentech company empowering consumer to benefit from the energy transition. He has been involved in many European funded projects as a work package leader of FLEXISTRANSTORE, INTERRFACE, FLEXIGRID, Gridplus, VSYNC, MetaPV, Offshoregrid projects. He is currently developing a peer-to-peer energy trading platform, a mobile application helping users to reduce energy bills and carbon footprint, and a digital platform helping households and companies to invest in solar energy.

Draft AGENDA

3rd Session on 1st December 2021

TIME	*Title and Moderators*	*SPEAKERS*
10:00- 11.30	**Citizens at the center: Creating a consumer-centric digitalization strategy** **Moderator: Stanislas d'Herbemont –** BRIDGE Consumer and Citizens engagement Chair	**Panellists and projects presented:** • **Elena Boskov-Kovacs** ETIP SNET WG4 Co-chair • **E-LAND** - Heidi Tuiskula, Deputy Head of Research, Smart Innovation Norway • **MERLON** - Dr. Antonis Papanikolaou, Head of R&D at Hypertech Energy Labs • **FITGEN** – Mariapia Martino – Politecninco di Torino • **COMPILE** - Medved, Tomi - Senior researcher and project manager at LEST

Scope of Session

Citizens at the center - How citizens can be better integrated into the European digitalisation strategy - Consumer Empowerment pillar.

The session will be divided in two parts, first three 10 minutes presentations for the projects followed by a panel discussion involving the projects and the representative with ETIP SNET.

The panel session will be structured around three questions:

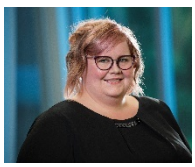
- What opportunity does digitalization represent for consumers ?
- How does digitalization allow consumers to take an active role and ownership of the energy system ?
- What barriers need to be broken down to allow for more collective action to be better integrated in the market
- and specifically what would be the role of energy communities, as the ultimate form of consumer collective action - in this market integration ?

Panellists profiles

- **Elena Boskov-Kovacs** ETIP SNET WG4 Co-chair

BIO: Managing Director of Blueprint Energy Solutions Gmbh, Austria Elena Boskov Kovacs is Managing Director and Co-founder of Blueprint Energy Solutions, Austrian engineering and ICT services company. She is energy and security expert responsible for developing Digital Transformation strategy roadmaps and business practice to further advance industry transformation and deliver solutions that enhance energy transition of the entire value chain. She is focused on large scale smart grid implementation projects across Europe. She is focused on innovation management and cybersecurity for electricity and gas transmission and distribution network operators in Europe as well as European Agencies and regulators. She is an active member of professional associations such as ETIP-SNET (Vice-Chair of WG4) and BRIDGE.

- **ELAND**: Heidi Tuiskula- Deputy Head of Research, Smart Innovation Norway



BIO: Heidi Tuiskula holds MSc in Electrical Engineering from Tampere University of Technology, Finland and PgDip in Hydrogen Safety Engineering from University of Ulster, Northern Ireland.
At her current position as the Deputy Head of Research at Smart Innovation Norway she is responsible of managing the development of the department and its employees. In addition, she is the Scientific Coordinator of the H2020 project E-LAND and tries to find time to contribute to the hands-on research activities especially in the field on end-user engagement and business creation whenever she can.

- **MERLON** - **Dr. Antonis Papanikolaou, Head of R&D at Hypertech Energy Labs**

BIO: Dr. Antonis Papanikolaou holds a Ph.D. on Computer Engineering from Ghent University, Belgium and an MBA from the Athens University of Economics and Business. Antonis has professional experience in R&D in a number of fields, including nano-electronics, electronic design automation, computer architecture. More recently he is focusing on domains related to the role of the built environment in the energy transition and the EU Green Deal. Since early 2014, he is the Head of R&D at Hypertech Energy Labs, working on solutions related to smart grids, energy efficiency, demand side management, building smartification including the interactions between buildings and utility networks. Dr. Papanikolaou has significant experience in EU co-funded R&D projects. He is currently the coordinator of the H2020 COGITO, MERLON & ACCEPT projects. He holds 8 USPTO patents and has published more than 60 publications in international conferences and journals.

- **FITGEN** – Mariapia Martino – Politecninco di Torino

BIO: Mariapia Martino (F) bachelor's Degree in Design at Politecnico di Torino in 1997, she works at the Energy Department – Politecnico di Torino, where she is currently Technical Officer and Research/Project Manager and takes care of supporting Quality Teaching in Higher Education - OECD. She is Project Manager and Dissemination Manager for several research projects funded by European Union, such as PLANET, FITGEN, SEABAT. Her research fields of interest are focused on the energy efficiency in urban areas, including the aspects related to the use of zero - emission vehicles, as well as on development of innovative engagement technique of final users. She is member of the WG on Education and Training in the frame of the DHC+ platform and she is external observer in the WG4 Digitalization of the electricity system and Customer participation in the frame of ETIP SNET. She is author of 20 papers presented at international conferences.

- **COMPILE - Medved, Tomi - Senior researcher and project manager at LEST**

BIO: Tomi Medved graduated at Faculty of Electrical Engineering, University of Ljubljana, in 2012 and from 2013 to 2017 he was employed at Elektro Energija d.o.o., the biggest electricity retail company in Slovenia, where he worked in risk management and market analytics department. In paralel, he was a PhD candidate working as a researcher at the Laboratory of Energy Policy (LEST) at the Faculty of Electrical Engineering.
His main research topics are Smart Grids, renewable integration, demand response optimization, electricity markets modelling and policy design.
From October 2015 to March 2016 he was a visiting researcher at UCLA Smart Grid Energy Research Center (SMERC), where he focused on using AI – machine learning for agent based modelling of demand response.
After finishing his PhD in 2019 he stayed to work at LEST as a senior researcher and project manager.
At LEST he actively participated in several industrial and EU projects (APRAISE, INCREASE, STORY, CONSEED), is active in the ongoing EU projects (CROSSBOW, X-FLEX) and is Deputy coordinator of H2020 project COMPILE.

Draft AGENDA

4th Session on 1st December 2021

TIME	*Title and Moderators*	*SPEAKERS*
12.30- 13.30	**Network code on cyber-security in energy** **Moderated by Olivier Genest** – BRIDGE Data Management Chair	**Panellists and projects presented:** • **Elena Boskov-Kovacs** ETIP SNET WG4 Co-chair **PHOENIX** – Paul Lacatus - Senior researcher in D&I Department ICT Manager, Romanian Energy Center – CRE **Closing words (recorded TBC):** Mark Van Stiphout (European Commission DG ENERGY)

Scope of Session

Which are the new digital data flows that appear with the new technologies. In terms of cybersecurity risks, what do you consider specific to energy in your projects? Do the new configurations introduce new cyber-risks, and if so, which ones? Do you see policy gaps when addressing cybersecurity needs, and if so, in which domains? How do the cybersecurity requirements in your projects contribute to the broader concept of resilience in the energy domain? Assessing the need for a network code on flexibility markets (also as implementing provisions of the Electricity Regulation); What are the R&I priorities based on projects experience.

Panellists profiles

- **Elena Boskov-Kovacs** ETIP SNET WG4 Co-chair - **Managing Director of Blueprint Energy Solutions Gmbh, Austria**

BIO: Managing Director of Blueprint Energy Solutions Gmbh, Austria Elena Boskov Kovacs is Managing Director and Co-founder of Blueprint Energy Solutions, Austrian engineering and ICT services company. She is energy and security expert responsible for developing Digital Transformation strategy roadmaps and business practice to further advance industry transformation and deliver solutions that enhance energy transition of the entire value chain. She is focused on large scale smart grid implementation projects across Europe. She is focused on innovation management and cybersecurity for electricity and gas transmission and distribution network operators in Europe as well as European Agencies and regulators. She is an active member of professional associations such as ETIP-SNET (Vice-Chair of WG4) and BRIDGE.

- **PHOENIX** – Paul Lacatus - Senior researcher in D&I Department ICT Manager, Romanian Energy Center – CRE

BIO: Eng. Paul Lacatus is Senior researcher and Project manager in Development and Innovation department & ICT manager of the Professional Association Romanian Energy Center (CRE) acting in Brussels and Bucharest
Experience of more than 25 years in the ICT and Power Energy industry, at managerial and executive level in companies involved in Transmission, Distribution and Generation. Active in EC and EIB funded Projects on Cybersecurity, Digitalization of the Electricity Sector, Smart Grids, Critical Infrastructure Protection and Grid Investments. Former ethical (white hat) hacker involved in Cybersecurity solutions
Experience in designing, configuring and commissioning electrical power networks and energy assets as well in electric power networks for transportation in AC and DC in Romania and abroad. Experience in designing, configuration and commissioning communication networks , SCADA, IoT . Project manager and head designer of power network and SCADA for Athens Tramway in 2004. Head designer and commissioning manager for the grid connection Tariverde 400/110kV substation, for the biggest onshore wind park in Europe, at that time, in 2010.
Active in developing technical solutions in H2020 projects as Phoenix, Crossbow, Wisegrid, Success, Trinity, and Erasmus+ Eddie Project - Co-author at United States Patent in Signal digital processing and FPGA circuit synthesis
PhD degree in progress in Power Engineering and a Master in Electronics and Communication Engineering .

Draft AGENDA

5th Session on 1st december 2021

TIME	*Title and Moderators*	*SPEAKERS*
14:00- 16.00	**Interoperability and data exchange to support the digitalisation of smart energy systems** **Moderated by Olivier Genest -** BRIDGE Data Management Chair **Introduction about the Digitalising the energy sector – EU action plan -** Mark Van Stipout (European Commission DG ENERGY)- **(videorecorded TBC)**	**Panellists and projects presented:** • **Maher Chebbo** – ETIP SNET WG4 Co-chair • **Esteban Pastor** – ETRA and IANOS project Representative. • **GridVis** – Conor Murphy, Proncipal engineer at Novogrid • **XFLEX** - Chloé Fournely- University of Ljubljana • **PLATONE** – Ferdinando Bosco - Solution Architect and Researcher in Engineering Ingegneria Informatica • **INTERRFACE** - Dr. Nikolaos Bilidis • **PLATOON**- Philippe Calvez, ENGIE • **SYNERGY** – Dr. Fenareti Lampathaki - Technical Director - Suite5 Data Intelligence Solutions Limited • **OPEN DEI** - Alberto Dognini - Research Associate - RWTH Aachen University E.ON Energy Research Center • **PHOENIX** - Ganesh Sauba (Dr.) – Principal Consultant, Group R&D at DNV GL • **BD4OPEM** - Mònica Aragüés Peñalba - Lecturer of the Electrical Engineering Department of the UPC • **EUniversal** - Susete Albuquerque - Chemical Engineering at E-REDES

Scope of Session

Data sharing to enable flexibility markets: interoperability across projects (with the Bridge data mgt WG? IoT, interoperability and cybersecurity of appliances (idem). What are the R&I priorities based on projects experience.

Panel Discussion - Specific Focus on 3 Topics:

- Big data and data spaces: *Feedback from OPEN-DEI, PLATOON, SYNERGY Projects*

- Supporting data exchanges and cooperation between stakeholders: *Feedback from INTERRFACE, PlatOne, EUniversal Projects*

- Tools for smarter and more resilient grids: *Feedback from GridVis, XFLEX, PHOENIX projects*

Panellists profiles

- **Maher Chebbo – ETIP SNET WG4 Co-chair**

BIO: Proven experience in General Manager & Senior Digital Executive in Global or European roles within large Corporates (CAP, SAP, GE Digital), with strong DNA in Entrepreneurship, Founder & CEO and Boards' contribution as a member & Chair:
• Founder & CEO, Board member, Board Chair
• General Manager
• Chief Commercial & Revenues Officer
• Head of Digital Industries
• Corporate Venturing
• Chief Strategy & Growth Officer
• Chief Digital Innovation Officer
Board level experience:
• Board member in publicly traded large companies (Elisa's nomination),
• Management Board member in Startups (Accenta)
• Board member in Startups (Greencom-networks, Energyworx)
• Independent Financial Expert Evaluator (European Commission)
• Former-President of a European Industrial Smart Metering Association (ESMIG)
• Chair of the Board of an International Public Organization (REEEP) focusing on Green Finance
• Co-Chair of the European Energy Transition Digital group (European Commission ETIP SNET)
• Chair of the European Digital Batteries Task Force (European Commission ETIP Batteries)

o Veteran in Disruptive Digital Transformation: ERP, Digital, Cloud, Predictive & Customer Value.
o Extensive Experience in S/4HANA, SaaS, AI, ML, Blockchain & Cryptocurrency, Data Science, IOT.

- **Esteban Pastor – ETRA and IANOS project Representative.**

BIO: Esteban PASTOR (male) is Energy Engineer by the Polytechnic University of Valencia (UPV). He holds a MSc in Renewable Energy by the European Institute of Innovation and Technology (EIT – KIC InnoEnergy). He is currently Project Manager at ETRA working on business development and strategic positioning of ETRA in the field of Hydrogen. He is deputy coordinator in the definition and pre-development of ORANGE.BAT, the industrial strategy for the decarbonization of the Spanish Ceramic industry, and the digitalization project led by ETRA within H2VLC, a programme that aims at creating a Hydrogen Valley in the metropolitan Area of Valencia, Spain. He has been participating in different EU-funded projects such as WiseGRID, for which he was Deputy Project Coordinator, CROSSBOW, as Demonstration and Evaluation Leader, and COMPILE and MERLON as Project Manager.

- **GridVis -** Conor Murphy - Principal Engineer for NovoGrid

BIO: Conor Murphy is a Principal Engineer for NovoGrid. Conor received ME and PhD degrees in Electrical Engineering from University College Dublin in 2012 and 2016. He has over 5 years' experience in electrical engineering research during his time at UCD as a PhD candidate and then as a post doctorate senior researcher on two EU Framework Programme for Research projects: evolvDSO and RESERVE.
He is an experienced distribution network planner having previously worked with ESB Networks where he designed customer driven studies and new strategic reinforcements on a least cost technically acceptable basis. He is a Chartered Engineer with Engineers Ireland.

- **XFLEX** - Chloé Fournely- University of Ljubljana

BIO: Chloé Fournely completed her master's degree in Physics Engineering at the Polytech Clermont-Ferrand engineering school in September 2019. In the same year she did a 6-month internship inside the University of Ljubljana team helping with the activities related to H2020 CONSEED project and the organisation of the EEM19 conference. She joined the University of Ljubljana in February 2020 as a researcher. Her work is mostly focussed on H2020 EU projects X-FLEX and COMPILE. Within the project X-FLEX, she is developing various forecasting models as well as the MARKETFLEX product, which establishes new local electricity and flexibility markets.

- **PLATONE – Ferdinando Bosco - Solution Architect and Researcher in Engineering Ingegneria Informatica**

BIO: Since 2012 he works as Solution Architect and Researcher in Engineering Ingegneria Informatica Research & Innovation department. He collaborates to many Italian and European research projects in energy and media domain, as technical expert and solution architect. In the projects in which he participated, he applied Agile methodologies and from 2017 he is a Scrum Master Certified (SMC) and in 2020 he achieved a DevOps fundamentals cert.
In the last years he specialized above all on blockchain technology, microservices architecture and container-based development. He is currently involved in many projects related to energy and blockchain topics. He is technical responsible for the Blockchain-based Platone Open Framework in H2020 Platone project and for the design of the OneNet Architecture in H2020 OneNet project.

- **INTERRFACE -** Nikolaos Bilidis

BIO: Nikos Bilidis is an Electrical and Computer Engineer. He obtained his Dipl. – Eng. Degree in 2014 from Aristotle University of Thessaloniki, Greece, with a specialization on Electrical Power Engineering. He holds an MSc on Sustainable Energy Technology from Delft University of Technology in the Netherlands. His expertise lies in modelling, management and control of micro-grids, renewable energy technologies, power systems' management and energy markets. He currently works as an R&D Project Manager for European Dynamics and he is involved in energy-related H2020 projects, such as INTERRFACE, FLEXITRANSTORE, BD4NRG, among others, both in the coordination but also in research-related activities.

- **PLATOON- Philippe Calvez, ENGIE**

BIO: Dr. Philippe CALVEZ obtained his PhD in the field of computer science from the PSL University in Paris. He has been working at ENGIE since 2009.
Within Engie Lab CRIGEN (ENGIE's R&D centre), he leads the CSAI LAB (Computer Science & Artificial Intelligence Lab).
The research activities and projects of the CSAI cover topics such as machine learning (computer vision, NLP, ...), digital interoperability (knowledge representation and reasoning, semantic technologies), AI for distributed autonomous energy systems. He was the French partner leader of the ITEA3 SEAS (Smart Energy Aware System - led by ENGIE) project. He is the coordinator of the H2020 PLATOON project (Digital PLAtform and ana-lytical TOOls for eNergy - H2020-DT-2019-1 - GA

872592) and the NEON project (Next-Generation Integrated Energy Services fOr Citizen Energy CommuNities - H2020-LC-SC3-EE-2020-2 - GA 101033700). He is the project leader of the GAIA-X Energy Data Space initiative for ENGIE. He is also actively involved in BDVA initiatives (TF7 ENERGY - Leader).

- **SYNERGY – Dr. Fenareti Lampathaki - Technical Director - Suite5 Data Intelligence Solutions Limited**

BIO: Dr. Fenareti Lampathaki (female) holds a Ph.D. Degree in Information Systems' Semantic Interoperability (2012) and a Diploma - M.Eng. Degree in Electrical and Computer Engineering (2005), as well as an MBA Degree in Techno-Economics (2009). Prior to co-founding Suite5, she worked as a R&D Project Manager at the School of Electrical and Computer Engineering in the National Technical University of Athens (NTUA) and acted as an adjunct lecturer in the post-graduate programmes of NTUA and the University of Aegean. During the last 12 years, she has successfully led the team's research and management activities in a series of EU-funded R&D projects in multiple domains (e.g. Big Data, Factories of the Future, Cloud Computing, eGovernance) related to data interoperability, modelling and analytics (e.g. ICARUS H2020 [179] Technical Coordinator, EOSChub H2020 [180], UPTIME H2020 [181], UTILITEE H2020 [182], MATILDA H2020 [183], AEGIS H2020 [184], UNICORN H2020 [185], PSYMBIOSYS H2020 [186], FITMAN FI-PPP [187], OPENi FP7 [188]), managed 3 Coordination and Support Actions (as the overall project manager for FutureEnterprise FP7 [189], ENSEMBLE FP7 [190] and CROSSROAD FP7 [191]) and was involved in the research activities of numerous initiatives (e.g. CloudTeams H2020 [192], LinDA FP7 [193], SONNETS H2020 [194], PADGETS FP7 [195], COCKPIT FP7 [196], webinos FP7 [197], LEXIS FP6 , GENESIS FP6, and the Greek Interoperability Centre, G.I.C.). Fenareti has also acquired significant experience in a large number of domestic R&D, and commercial projects related to semantic interoperability and data analytics. Her research results have appeared in over 75 publications in international journals, edited books and conference proceedings while she has co-edited 1 book (on interoperability). Finally, she has been serving as a reviewer for R&D projects and evaluator for the European Commission since 2012, as well as a peer reviewer in academic journals and conferences. Dr. Fenareti Lampathaki is the Technical Manager of SYNERGY

- **OPEN DEI (no BRIDGE project) - Alberto Dognini - Research Associate - RWTH Aachen University E.ON Energy Research Center**

BIO: Alberto Dognini received the B.Sc. and M.Sc. degrees in electrical engineering from the Polytechnic University of Milan, Italy, respectively in 2012 and 2014. From 2015 until 2017 he worked as Engineering Project Manager at ABB - Electrification Products Division in Dalmine, Italy, managing the revamping of medium voltage electrical apparatus and switchgears. He is currently working toward the Ph.D. as Research Associate with the Institute for Automation of Complex Power Systems, E.ON Energy Research Center, RWTH Aachen University, Germany. His research interests include the development of energy services and the design of automation systems to improve resiliency of active distribution grids.

- **PHOENIX – Ganesh Sauba (Dr.) – Principal Consultant, Group R&D at DNV GL**

BIO: Dr. Ganesh Sauba is a Principal Consultant with the Group Research and Development at DNV based within the Power and Renewables division in Arnhem – The Netherlands. He has broad expertise in Cybersecurity, Home Automation, Energy Management, Smart Grid, networking applications, and testing/certification procedures (EMC). He is a committee member on the BSi IST/006/0-/12 Home Electronic Systems and represent the UK at the CENELEC TC205 WG16, WG18 and WG19 on Smart Meters, Smart Cities and Electric Vehicle Implementation. He is also PRINCE 2 qualified and is a program committee member for the IEEE INTELEC & ICRERA organisations.

- **EUniversal** – Susete Albuquerque - Chemical Engineering at E-REDES

BIO: Susete Albuquerque is a Chemical Engineering, with specialization in Biotechnology from the Technical University of Lisbon (1994), with a post-graduation in Marketing from the Catholic University of Portugal in Lisbon (1998) and an MBA from Católica Lisbon University (2004).
Since 1996 she was responsible in management offices under the supervision of Ministry of Economic Activities and Labor regarding the analyses and evaluation of projects for the granting of incentives under EU FEDER fund. Currently she is working in E-REDES supporting business development responsibilities in the European Policies and Projects Direction.

- **BD4OPEM - Mònica Aragüés Peñalba -** Lecturer of the Electrical Engineering Department of the UPC

BIO: She received the M.Sc. degree in industrial engineering (major in Electricity) in 2011 and her Ph.D. in Electrical Engineering in 2016, both from the School of Industrial Engineering of Barcelona (ETSEIB) of the Technical University of Catalonia (UPC), Barcelona, Spain. Since 2010, she belongs to CITCEA-UPC (Centre of Technological Innovation in Static Converters and Drives), in the Electrical Engineering Department of the UPC. Since April 2018, she is Lecturer of the Electrical Engineering Department of the UPC (Serra Hunter Fellow). She has participated in industrial and research projects related to the grid integration of renewables (offshore wind and photovoltaics) at transmission and distribution level. She is currently the project coordinator of BD4OPEM H2020. Her research interests include renewable integration in power systems, transmission and distribution power systems, wind and solar power plants operation and control, microgrids operation and control, optimization and data science applications to power systems.

Draft AGENDA

6th Session on 1st December 2021

TIME	*Title and Moderators*	*SPEAKERS*
16:00 – 17:00	**EIRIE Platform Presentation**	**Venizelos Efthymiou** PANTERA project Coordinator and ETIP SNET WG5 Chair

Scope of Session

Official Launch of EIRIE Platform

Panellists profiles

- **Dr Venizelos Efthymiou**

BIO: He worked for the Electricity Authority of Cyprus from March 1979 up to November 2013 and he left the Company from the post of Executive Manager Networks / Distribution System Operator of Cyprus.
He is a member of the Steering Committee of the ETIP SNET, of ETIP PV, of the DSO committee of EURELECTRIC, of the Steering Committee of the SET Plan and of the Horizon Europe Programme Committee.
He is the chairman of the Research Centre FOSS of the University of Cyprus.

Draft AGENDA

7th Session on 2nd December 2021

TIME	*Title and Moderators*	*SPEAKERS*
10:00 – 12:00	**How to promote energy storage** **Moderated by Patrick Clerens – EASE Secretary General**	**Panellists and projects presented:** • **SFERA III** - Walter Gaggioli ENEA • **MERLON**: Esteban Pastor – ETRA • **FEVER (not confirmed) -** Torben Bach Pedersen - Full professor of computer science at Aalborg University, Denmark • **GIFT - Steiner Igor** senior Project Manager, Head of Energy and Ecology Solutions department at INEA Ljubljana

Scope of Session

How to promote energy storage.

Technology: Electricity storage -To what extent do BRIDGE projects embrace sustainable or longer duration electricity storage technologies [preferably developed in EU], which provide sufficiently high round-trip efficiency or demonstrate solid progress in the increase of round-trip efficiency? Which are these technologies? When Li-ion technology is used in BRIDGE projects, do they approach producers belonging to the European Battery Alliance? (especially recent projects)

Heat storage: to which extent do BRIDGE projects use novel heat storage technologies? What are the main challenges for these projects/technologies?

Location: How much does the location of storage facilities affect the energy efficiency of the electricity system?

Regulation: Is there any storage technology whose potential for the energy system is underestimated and requires further policy support? Due to the complexity and many different storage technologies, to what extent could regulatory sandboxes help to their development? What are the main regulatory barriers for the demonstration of such projects?

Economics: How can we ensure that storage investments are cost-efficient? What are the useful experiences of the BRIDGE projects [or concrete BRIDGE project]?

Panellists profiles

- **SFERA III** - Walter Gaggioli - ENEA

BIO: Ph.D. Walter Gaggioli (M), received academic degree in Electrical Engineering (Rome, 1996), and was later awarded as Ph.D. in Energy at the Department of Nuclear Engineering and Energy Conversion, University of Rome "La Sapienza" with a thesis about CHP systems integrated with technology thermodynamic solar. The thesis was awarded at the III edition of BIC Lazio. After gaining experience in the field of design and energy consulting, from 2002 he has been working as researcher in the ENEA Division of Solar Thermal Energy. He was the ENEA technical-scientific responsible of the following EU Projects: SFERA I, II and III, STAGE STE (coordinator of the WP7 – Thermal Storage) HITECO, IN-POWER, RESLAG, EuroPatMos. Between 2015-2019 was Coordinator of the H2020 ORC-PLUS Project; Currently is the coordinator of the Sub Programme of the Thermal Storage of the EERA CSP Joint Programme, and is responsible of Solar Thermal, Thermodynamic and Smart Network ENEA' Division (TERIN-STSN).

- **MERLON**: Esteban Pastor – ETRA

BIO: Esteban PASTOR (male) is Energy Engineer by the Polytechnic University of Valencia (UPV). He holds a MSc in Renewable Energy by the European Institute of Innovation and Technology (EIT – KIC InnoEnergy). He is currently Project Manager at ETRA working on business development and strategic positioning of ETRA in the field of Hydrogen. He is deputy coordinator in the definition and pre-development of ORANGE.BAT, the industrial strategy for the decarbonization of the Spanish Ceramic industry, and the digitalization project led by ETRA within H2VLC, a programme that aims at creating a Hydrogen Valley in the metropolitan Area of Valencia, Spain. He has been participating in different EU-funded projects such as WiseGRID, for which he was Deputy Project Coordinator, CROSSBOW, as Demonstration and Evaluation Leader, and COMPILE and MERLON as Project Manager.

- **FEVER:** Torben Bach Pedersen - Full professor of computer science at Aalborg University, Denmark

BIO: Torben Bach Pedersen is Full professor of computer science at Aalborg University, Denmark, and co-founder of FlexShape, focusing on Big Data Analytics with applications in digitalization of the energy sector. He has published more than 300 peer-reviewed papers which received more than 7600 citations on Google Scholar, yielding an h-index of 49. He serves on the PCs of the top conferences in (big) data management (SIGMOD, PVLDB, ICDE, CIKM, and EDBT) and digital energy (ACM e-Energy). He is an ACM Distinguished Scientist, a Senior Member of the IEEE, and Member of the Danish Academy of Technical Sciences.
He received the Best Paper Award at ACM e-Energy in 2017 and an Honorary Doctorate from TU Dresden in 2021 for his work on managing energy flexibility using FlexOffers, which are used in 15+ international and national research projects with more than 1000 prosumers and 7+ commercial products.

- **GIFT – Steiner Igor -** senior Project Manager, Head of Energy and Ecology Solutions department at INEA Ljubljana

BIO: Igor Steiner is senior Project Manager, Head of Energy and Ecology Solutions department at INEA Ljubljana. He holds a M.Sc. degree from the Faculty for Electrical Engineering, Ljubljana. His competences are in the fields of design and implementation of energy management systems, process control algorithms and quality control systems. He is currently project coordinator of GIFT project which aims to decarbonise the energy systems of European islands and to increase penetration rate of renewable energy sources into the islands' grid. He has been participating in different EU-funded projects such as RECOTRANS, MAMA-MEA, FEVER, EdgeFLEX, domOS, GRASSHOPPER on filed of flexible energy management, process control and various hydrogen solutions.