General Assembly Agenda

2nd, 3rd, and 4th March 2021

#BRIDGE_GA2021

Structure of the agenda

DAY 1: **02/03/2021**	**09:00 – 13:00**	**PLENARY 1**		
	14:00 – 16:00	**Parallel session 2.1** - DATA MANAGEMENT WG 1/2 -		
DAY 2: **03/03/2021**	**09:00 – 10:30**	**Focus Topic** – EV ENERGY FLEXIBILITY –		
	10:30 – 10:45	Coffee Break		
	10:45 – 13:00	**Parallel session 1** **REGULATION WG**	**Parallel session 2.2** **DATA MANAGEMENT WG 2/2**	**Parallel session 3** **CONSUMER AND CITIZEN ENGAGEMENT WG**
	13:00 – 14:00	Lunch Break		
	14:00 – 16:00	**Parallel session 4** **UNLOCKING THE POTENTIAL OF EU ISLANDS TO BECOME THE LOCOMOTIVES OF EUROPEAN ENERGY TRANSITION**	**Parallel session 5** **INNOVATION AND APPLICATION OF DIRECT CURRENT TECHNOLOGIES**	**Parallel session 6** **BUSINESS MODELS**
	16:30-17:30	**NETWORKING EVENT ORGANISED BY MUSE GRIDS PROJECT**		
DAY 3: **04/03/2021**	**09:00 – 12:30**	**PLENARY 2**		

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Day 1 Morning: Plenary (2nd March)

9:00 – 9:20	**Welcome & Introduction** – Vincent Berrutto Head of Unit DG ENER Innovation, Research, Digitalisation, Competitiveness
9:20 – 9:30	**Presentation of the agenda and Horizon Europe** - Cristobal Irazoqui Policy Officer DG ENER Innovation, Research, Digitalisation, Competitiveness
09:30 – 10:30	**Plenary 1.1: Presentation of 2020 actions by Working Groups** WG Regulation, WG Data Management & WG Consumer and Citizen Engagement
10:30 – 10:45	Coffee Break
10:45 – 11:15	**Plenary 1.2: Presentation of 2020 actions by Task Forces** TF R&I priorities, TF Replicability and Scalability & TF Energy communities and self consumption

11:15 – 12:00	**Plenary 2:** *New BRIDGE Projects – Part 1*
	10 new projects pitching. Each project will address 2 issues:
	   1) Intro & objectives of the project
	   2) Identification of areas that match the current work in BRIDGE
	<table><tr><td>**ACCEPT – 3min**</td><td>Vasiliki Katsiki</td></tr><tr><td>**BRIGHT – 3min**</td><td>Massimo Bertoncini</td></tr><tr><td>**CREATORS – 3min**</td><td>Christof De Knop</td></tr><tr><td>**eNeuron – 3min**</td><td>Marialaura Di Somma</td></tr><tr><td>**FLEXIGRID (863876) – 3 min**</td><td>Manos Varvagiros</td></tr><tr><td>**FlexPlan – 3min**</td><td>Gianluigi Migliavacca</td></tr><tr><td>**HESTIA – 3min**</td><td>Andrea Martinez</td></tr><tr><td>**Hyperride – 3min**</td><td>Gerhard Jambrich</td></tr><tr><td>**Ianos – 3min**</td><td>Nuno Marinho</td></tr><tr><td>**IFLEX– 3min**</td><td>Markus Taumberger</td></tr></table>

12:00 – 12:15	Coffee Break

12:15 – 12:45	**Plenary 3:** *New BRIDGE Projects – Part 2*
	7 new projects pitching. Each project will address 2 issues:
	   1) Intro & objectives of the project
	   2) Identification of areas that match the current work in BRIDGE
	<table><tr><td>**RENergetic – 3min**</td><td>Eduardo Vendrell del Río</td></tr><tr><td>**Robinson – 3min**</td><td>Ugo Simeoni</td></tr><tr><td>**SENDER– 3min**</td><td>Joseph Negreira</td></tr><tr><td>**TIGON – 3min**</td><td>Jesus Muñoz</td></tr><tr><td>**TwinERGY– 3min**</td><td>Stylianos Karatzas</td></tr><tr><td>**VPP4ISLANDS– 3min**</td><td>Ben Elghali</td></tr><tr><td>**BD4NRG – 3 min**</td><td>Massimo Bertoncini</td></tr></table>

12:45 – 13:00	**Plenary 4: Presentation of the Clean Energy Transition Partnership** *CETP (Michael Huebner) tbd*
13:00	End of plenary 1

14:00 – 16:00	**Parallel Session 2.1: DATA MANAGEMENT WG 1/2 –** The 1st part of the DATA MANAGEMENT WG session. Check agenda in the next pages.

Day 2 Morning: Parallel Sessions 1 to 6, Focus Topic and Networking event.

DAY 2: 03/03/2021	09:00 – 10:30	**Focus Topic** – EV ENERGY FLEXIBILITY		
	10:30 – 10:45	Coffee Break		
	10:45 – 13:00	**Parallel session 1** REGULATION WG	**Parallel session 2** DATA MANAGEMENT WG 2/2	**Parallel sesión 3** CONSUMER AND CITIZEN ENGAGEMENT WG
	13:00 – 14:00	Lunch Break		
	14:00 – 16:00	**Parallel session 4** UNLOCKING THE POTENTIAL OF EU ISLANDS TO BECOME THE LOCOMOTIVES OF EUROPEAN ENERGY TRANSITION	**Parallel session 5** INNOVATION AND APPLICATION OF DIRECT CURRENT TECHNOLOGIES	**Parallel sesión 6** BUSINESS MODELS
	16:30-17:30	NETWORKING EVENT ORGANISED BY MUSE GRIDS PROJECT		

Day 3 Morning: Plenary (4th March)

09:00 – 09:20	**Plenary 5**: New BRIDGE Projects – *Part 3* 5 new projects pitching. Each project will address 2 issues: 1) Intro & objectives of the project 2) Identification of areas that match the current work in BRIDGE
		ISLANDER – 3min	Emiliano Mesa Arenas	
		MAESHA – 3min	Boris Heinz	
		MAGNITUDE – 3min	Regine Belhomme	
		OneNEt – 3min	Antonello Monti	
		ReDream – 3min	Alvaro Sanchez Miralles	
09:20 – 09:45	**Plenary 6**: Finished BRIDGE Projects 3 projects presenting: 1) their key exploitable results and benefits from BRIDGE 2) recommendations to new/ongoing projects
		INTEGRID – 7 min	Ricardo Mendes André	
		CRYOHUB – 7 min	Judith Evans	
		TDX-ASSIST –7 min	Gareth Taylor	
		Q&A – 5min		
09:45 – 10:00	**Plenary 7: ETIP Smart Networks for Energy Transition** Presentation on their current work. - Jan Okko Ziegler (ETIP SNET Chairman) Presentation of one of the collaborative actions between BRIDGE & ETIP SNET - Innovation support to the market uptake - Dr.Mahboubeh Hortamani
10:00 – 10:30	**Plenary 8: Low TRL projects cluster** Presentation of activities and results achieved in two Low TRL cluster groups_ - Business Models WG – Roland Tual (Rescoop) - Energy Storage WG – Michele Tedesco (Wetsus)
10:30 – 10:40	**Plenary 9: Joint communication** Presentation on developments by BRIDGE Task Force "Joint Communication"
10:40 – 11:00	Coffee break
11:00– 12:15	**Plenary 10: Outcome of the discussions on the parallel sessions** Presentation of key results of the sessions and discussion on follow-up. Presentation on next steps and possible new topics to be addressed.
12:15 – 12:30	**Conclusions and closing-** Mark van Stiphout - Deputy Head of Unit DG ENER Innovation, Research, Digitalisation, Competitiveness
12:30	End of the BRIDGE General Assembly 2021

BRIDGE FOCUS TOPIC AND PARALLEL SESSIONS AGENDAS

Focus Topic Session – EV ENERGY FLEXIBILITY			
The session will display some ongoing relevant H2020 research projects, will present the 2ZERO Partnership and together with the policy angle will open a debate to identify areas, topics and use cases where collaboration can be expanded; be it among projects and among the 2ZERO partnership and the BRIDGE projects, in topics such as interoperability, data sharing, regulation or consumer engagement.			
09:00-09:05	Introduction	Welcome and introduction – 5 min	Cristobal Irazoqui (DG ENER)
09:05 – 09:15	Energy policy developments and barriers	Policy Perspective – 10 min	Sabine Crome (DG ENER)
09:15-09:45	Presentation from Research projects on main uses cases: challenges, main stakeholders, solutions	**From energy side**	**REDREAM** – 5min	Alvaro Sánchez Miralles (Comillas)
			X-FLEX – 5 min	Antonio Marqués (ETRA)
		From mobility side	**INCIT-EV-** 5 min	Xabier Serrier (Renault)
			ASSURED- 5 min	Peter Cremers (VDL Bus & Coach)
		From Home-energy side	**INTERCONNECT -** 10 min	David Rua (INESC-TEC)
09:45 – 09:55	Presentation 2ZERO Partnership	Presentation of the 2ZERO Partnership. – 10 min	Lucie Beaumel- EGVIA
09:55 – 10:25	Conclusions and Discussion panel	Discussion on grouping of topics (e.g., interoperability, data platform, consumer) – 30 min	Cristobal Irazoqui (DG ENER)
10:25 – 10:30	Closing of session	Cristobal Irazoqui (DG ENER)	

Parallel Session 1 – REGULATION WG

The session will revolve around the key research questions to be tackled for the coming year(s) on *Regulation*. The discussion will therefore be on the new tracks to follow for 2021: products and services, cross-border and regional cooperation, flexibility mechanisms, flexibility markets. During the session, illustration of tracks with projects examples will be made and discussion on EV Flexibility from Regulation perspective is planned.
The session will also be depicting past topics that have been addressed during 2020.

10:45 – 10:55	Introduction & Welcome	And quick summary of past work and next steps defined		Helena Gerard
10:55 – 11:15	Proposal on knowledge sharing	Some interesting proposal for knowledge sharing will be presented		Manolo Serrano Matoses
11:15-12:15	Presentation of tracks of Regulation WG for 2021. - Illustration of track with project examples - Discussion on sub-topics for each track	Track 1: Products and Servcies	InterrFace	Pierre Mann
		Track 2: Cross-border and Regional Cooperation	CROSSBOW	Aleksandra Krkoleva
		Track 3: Flexibility Mechanisms – dynamics tariffs	EUniversal	José Pablo Chaves Ávila
		Track 4: Flexibility Markets	EU SysFlex	Jan Budke
12:15 – 12:30	Discussion on topics relevant for regulatory WG	Discussion on topics relevant for regulatory WG that are not covered by the first version of workplan (All)		Helena Gerard and Manolo Serrano Matoses
12:30 – 13:00	Next Steps & Closing of the session	The next steps for 2021 will be discussed.		Helena Gerard and Manolo Serrano Matoses

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Parallel session 2.1: DATA MANAGEMENT WG 1/2 (2nd March)

The purpose of this session is to discuss about the setting-up and governance of (1) a BRIDGE repository for use-cases, roles, ..., and (2) an approach to manage contributions from BRIDGE projects to standardisation (gaps identification, extension/modification of standards).

14:00 – 14:05	Introduction	Introduction: purpose and scope of the session	Olivier Genest
14:05 – 14:30	Interoperability of use cases: work done so far	**1)** Use-case repository**, 2)** Interoperability of Flexibility Assets methodology**, 3)** Roles & **4)** HRM, CIM – 15 min	Lola Alacreu, Olivier Genest, Kalle Kukk, Eric Lambert.
		Open issues, leading to sessions "BRIDGE repository" and "Managing contributions from BRIDGE projects to standardisation" – 5 min	Olivier Genest
14:30 – 15:10	BRIDGE Repository	BRIDGE UC repository platform – 5 min	Lola Alacreu
		HEMRM, CGMES and ESMP: development & governance – 5 min	Fabio Oliveira (ENTSO-E)
		Discussion on BRIDGE repository: Content, expected benefits and beneficiaries; Governance; Licensing – 25 min	All (led by Lola Alacreu)
		Agreement on next steps – 5 min	Lola Alacreu
15:10 – 15:55	Managing contributions from BRIDGE projects to standardisation	Overview of Smart Energy standardisation & roadmap (IEC, CEN/CLC/ETSI) - 5 min	Laurent Guise (IEC & CG-SEG)
		User groups – 5 min	Eric Lambert
		JRC actions towards interoperability – 5 min	Ioulia Papaioannou (JRC)
		Discussion: **1)** What to be done at BRIDGE level? **2)** What user-groups to set up?; **3)** What link with standardisation? – 25 min	All (led by Olivier Genest)
		Agreements on next steps – 5 min	Olivier Genest
15:55 – 16:00		Conclusions – 5 min	Olivier Genest

Parallel Session 2.2: DATA MANAGEMENT WG 2/2 (3rd March)

Based on the work done in 2020 on the EU data exchange reference architecture, the purpose of this session is (1) to foster convergence based on the reference architecture within and beyond BRIDGE ;(2) to agree on next steps to improve the reference architecture and reach interoperability of platforms and (3) demonstrate EU data exchange based on the reference architecture.

Time	Topic	Item	Presenter
10:45 – 10:50	Introduction	Introduction: purpose and scope of the session – 5 min	Kale Kukk
10:50 – 11:45	Reference Models and architectures	BRIDGE energy data exchange reference architecture – 10 mi	Kalle Kukk, Konstantinos Kotsalos
		Energy Data Space and its links to other European data spaces – 10 min	EC, DG CNECT
		SGTF EG1 reference model for data interoperability Implementing Act –10 min	Georg Hartner, GEODE
		IDSA architecture & OPEN DEI – 15 min	Silvia Castellvi, IDSA; Massimo Bertoncini, Engineering
		ISO work on reference architecture convergence – 10 min	Antonio Kung, Trialog
11:45 – 12:15	Results from individual H2020 projects	**Platone** project – 5 min	Antonello Monti, RWTH
		InterConnect project – 5 min	Joost Laarakkers, TNO
		BD4NRG project – 5 min	Massimo Bertoncini, Engineering
		INTERRFACE project – 5 min	Nikolaos Bilidis, European Dynamics
		Coordinet project – 5 min	Mathias Uslar, OFFIS
		EU-SysFlex project – 5 min	Kalle Kukk, Elering
12:15 – 13:00	Next steps for practical cooperation	Demonstration of MVP (minimum viable product) – 5 min	Kalle Kukk, Elering
		OneNet project's vision – 5 min	George Boultadakis, European Dynamics
		Bringing together data from the transport and power sectors –10 min	Antonio Iliceto, Terna, ENTSO-E Janez Humar, ELES
		Discussion – 20 min • How to further improve reference architecture? • What is most relevant for cross-sector interoperability? • How to agree on practical set-up of MVP? • What links to other BRIDGE activities and external parties?	All (led by Kalle Kukk)
		Agreement on next steps	Kalle Kukk

Parallel Session 3 – CONSUMER & CITIZEN ENGAGEMENT WG

The Consumer and Citizen Engagement Working Group will articulate its session around three main exercises. After a recap of the work and functioning principles of the working group, we will have a first workshop in sub-groups, dedicated to new projects joining, with an "open hour" moment. We will have a second workshop in sub-groups around the question of the showcasing of the work delivered in 2020 and 2021. We will finish with a segment on "Stories of Engagement" where you will get to share and listen to stories of community building and consumer engagement.

Time	Topic	Description	Speaker
10:45 – 11:05	Welcome	Welcome address. 1. Recap of goals, work and objectives of the working group 2. Presentation of the plan for 2021 and internal group rules 3. Presentation of each subgroup (5*2 min)	Stanislas d'Herbemont (WG chair)
11:05 – 11:20	Open Hour	This session will allow participants to meet subgroup leaders and engage in discussion in the format of a world café.	Subgroup Leaders
11:20 – 11:55	Workshop	**Presentation of the workshop**	Stanislas d'Herbemont (WG chair)
		Workshop per subgroup on "How to best showcase the results of the working group?" and "How to make BRIDGE content more engaging for project consortiums ?"	Subgroup Leaders
11:55 – 12:05	COFFEE BREAK - Leaders will join and prepare the results presentation		
12:05 – 12:15	Workshop results	Presentation of the results of the workshops of the subgroups	Stanislas d'Herbemont Subgroup Leaders
12:15 – 12:25	Stories of engagement	2*5 minutes presentations by project / community leaders about their experience of creating and executing an engagement strategy.	Guest speakers
12:25 – 12:40	Q&A	Q&A and discussion around the Miro and the stories of engagement	Stanislas d'Herbemont (WG chair)
12:40 – 12:45	Closure	Final remarks and conclusion	Stanislas d'Herbemont (WG chair)

Parallel Session 4 – UNLOCKING THE POTENTIAL OF EU ISLANDS TO BECOME THE LOCOMOTIVES OF EUROPEAN ENERGY TRANSITION

The parallel session will explore what are the key challenges to unlock the potential of EU islands in becoming the front-runners in the energy transition process. Participants will debate on how to develop integrated and renewable energy-base systems while ensuring a positive impact on the wider energy infrastructure, on the local economy and local communities.

14:00 – 14:05	Opening	Welcome and introduction	Giulia Serra (DG ENER), Eleni Kontonasiou (INEA)
14:00 – 14:45	Advancing the clean energy transition on the EU Islands: a renewable future for Islands communities	Clean Energy for EU Islands Secretariat - Explore. Shape. Act. From island vision to project implementation – 8 min	Simon De Clercq (3E)
		NESOI - Unlocking financing for EU islands energy transition – 8 min	Andrea Martinez (Sinloc)
		ROBINSON – The key role of energy stakeholders in the decarbonisation of islands – 5 min	Ugo Simeoni (ETN Global)
		Samsø - An Island Community pointing to the future – 5 min	Alexis Chatzimpiros (Samsø Energy Academy)
		Open Discussion – 20 min	Giulia Serra (DG ENER), Eleni Kontonasiou (INEA)
14:45 – 15:00	COFFEE BREAK		
15.00 – 15:50	Integration of Local Renewables and Carbon-Free Islands Energy Systems: Opportunities, Challenges and needed Actions;	Energy Islands (LC-SC3-ES-3): Lessons learnt, Opportunities and Challenges. Joint presentation from COMPILE, MERLON, MUSE GRIDS, RENAISSANCE projects – 10 min	Guest Speakers
		Geographical Islands (LC-SC3-ES-4): Lessons learnt, Opportunities and Challenges. Joint presentation from INSULAE, SMILE, ISLANDER projects – 10 min	
		FCH Islands projects: Lessons learnt, Opportunities and Challenges – 10 min	Antonio Aguilo Rullan (FCH)
		Open Discussion – 20 min	Giulia Serra (DG ENER), Eleni Kontonasiou (INEA)
15:50 – 16:00	Final remarks and conclusion		Giulia Serra (DG ENER), Eleni Kontonasiou (INEA)

Parallel Session 5 – INNOVATION AND APPLICATION OF DIRECT CURRENT TECHNOLOGIES

EC has addressed the Medium Voltage DC; it is tackling now High Voltage DC and it aims to follow-up on Low Voltage DC. This is the implementation of the actions emerged from the DC round table organised by **DG ENER on 17 of May 2018**. In this session, we will go deeper on innovation and trends for DC technologies, their potential application in the energy sector, intended as integrated with RES, EV, storage, sector-coupling and other areas.

14:00-14:40		Welcome and introduction – 8 min	Mark Van Stiphout, Deputy Head of Unit, DG ENER Innovation, Research, Digitalisation, Competitiveness
	MVDC - Part I. Presentations from selected from the call LC-SC3-ES-10-2020: DC – AC/DC hybrid grid for a modular, resilient, and high-RES share grid development.	**Hyperride** – 8 min	Gerhard Jambrich, coordinator
		Tigon - 8 min	Jesus Muñoz, coordinator
		The Smart Border Initiative (SBI)– 8 min	Jan Budke, (Innogy)
		MVDC retrofitting – 8 min	Pavol Bauer (TU Delft)
14:40-15:00	**MVDC - Part II.** Open discussion on MVDC	1.Collaboration between the two projects 2. Discussion / exchanges on MVDC: Challenges, Advantages, technology development, needs for DC technologies development and establishment, role of the EC	Moderation: Andrea Feltrin (INEA), Sébastien Mortier (DG ENER)
15:00-15:30	**LVDC - Part I** Presentation of LVDC projects	**ERA-Net project DCSmart, DC Distribution Smart Grids** - 10 min	Pavol Bauer (TU Delft)
		LVDC distribution in commercial and industrial buildings and the interconnection to EV charging parks - 10 min	Bernd Wunder (Fraunhofer Institute)
		UltimateGaN – 10 min	Herbert Pairitsch, Infineon
15:30-15:50	**LVDC - Part II** Open discussion on LVDC	Discussion / exchanges on LVDC: Challenges, Advantages, technology development, needs for DC technologies development and establishment, role of the EC	Moderation: Andrea Feltrin (INEA), Sébastien Mortier (DG ENER)
15:50-16:00	Conclusions and next steps	Mario Dionisio (DG ENER)	

Parallel Session 6 – BUSINESS MODELS

This session will present the work of some of the ongoing projects from the business models perspective. The objective is to give the opportunity to the new projects to see how these aspects are being currently addressed by ongoing projects and to identify relevant synergies. Moreover, the session intends to identify recurrent topics that might arise and valorise how to address them in the incoming years.

14:00 – 14:10	Opening	Welcome and introduction.		Adas Pangonis (INEA)
14:10– 15:00	Ongoing H2020 projects will present their experiences from the Business Modelling point of view.	2017-LCE-04-2017	**CROSSBOW** – 6 min	Rubén De Arriba (COBRA)
		LC-SC3-ES-2-2019	**TRINITY** – 6 min	Alvaro Nofuentes (ETRA)
		DT-ICT-11-2019	**SYNERGY** – 6 min	Tasos Tsitsanis (Suite5)
		LC-SC3-ES-5-2020	**COORDINET** – 6 min	Yvonne Ruwaida (Vattenfall)
		LC-SC3-ES-3-2020 Integrated Local Energy System (Energy Islands)	**MERLON** – 6 min	Nikos Chrysanthopoulos (Imperial)
			REINASSANCE – 6 min	Maria Luisa Lode (VUB)
		Business modelling from a different perspective by **ACCEPT** project - 6 min		Alessandra Cuneo (RINA)
15:00 – 15:10	COFFEE BREAK			
15.10 – 15:30	Debate on energy-based cross-value chain services	Presentation of multi-value chain business models from the **BRIGHT** and **BD4NRG** projects perspective – 15 min		Massimo Bertoncini (Engineering)
15:30 – 16:00	Conclusions & discusión panel	Discussion on grouping of topics and next actions		Adas Pangonis (INEA)

Background on Sessions

Parallel Session 2.1: DATA MANAGEMENT WG 1/2 (2nd March)

Governance for interoperability & use-cases

Based on the work done in 2020 on the UC repository, the interoperability of flexibility assets, CIM and the HEMRM, the purpose of this session is to discuss about the setting-up and governance of (1) a BRIDGE repository for use-cases, roles, ..., and (2) an approach to manage contributions from BRIDGE projects to standardisation (gaps identification, extension/modification of standards, ...).

Data Management WG activities in 2020 concluded the following:

- A use-case repository has been developed, demonstrating the ability to host BRIDGE projects' use-cases based on IEC 62559-2 template.
- Applying the "Interoperability of flexibility assets" (IoFA) methodology allows to build a catalogue of standards, identify gaps and collect extensions/modification of existing standards.
- Common Information Model (CIM) is widely used by projects, with different versions and possibly extensions. Feedback from users should be collected and discussed within a CIM User Group.
- New "data roles" have been identified and could extend the HEMRM.

Focus Topic Session: EV Energy Flexibility

With the energy transition in full swing this session aims at looking into the eV flexibility use case to offer smart and bidirectional charging services and solutions.

The session will display some ongoing relevant research projects, will present the 2ZERO Partnership and together with the policy angle will open a debate to identify areas, topics and use cases where collaboration can be expanded; be it among projects or among the partnership and the projects, in topics such as interoperability, data sharing or regulation.

The output of this session will be taken for further discussion in the Data Management, Regulatory and Consumer & Citizen Engagement Working Groups.

- **Questions for debate:**
    - What are the main use cases that would require a closer look from either one of the BRIDGE Working Groups?
    - Beyond the use cases, what topics would welcome a more detailed discussion in BRIDGE?

- The output of this session will be used as input for discussion in the relevant WG session discussion later during the day: WG Data Management, WG Regulatory, WG Customer and Citizen Engagement
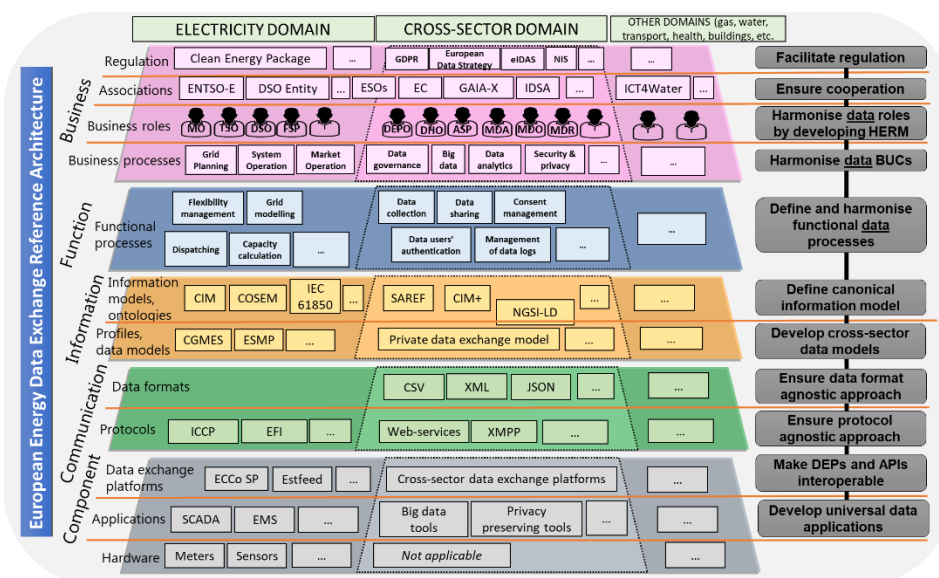
Parallel Session 1: REGULATION WG

Past year, the regulatory working group has focused its efforts on topics related to market design, more in particular on **Products and Services**, **Coordination Models** and **Market Integration**. In order to continue the work, four tracks are defined that will focus on several integration/harmonization aspects of market design.

These aspects cover (1) **harmonization at the level of products and services**, including the role of energy communities as service provider (2) **cross-border and regional cooperation**, (3) **integration of market -based and non-market based flexibility mechanisms** and (4) **coordinated flexibility markets for system services.**

Parallel Session 2.2: DATA MANAGEMENT WG 2/2 (3rd March)

EU data exchange reference architecture

Based on the work done in 2020 on the EU data exchange reference architecture, the purpose of this session is (1) to foster convergence on the reference architecture beyond BRIDGE and (2) to agree on next steps in order to reach interoperability of platforms (in particular cross-sector) and demonstrate EU data exchange based on the reference architecture. Data Management WG activities in 2020 have defined a reference architecture, with a specific focus on cross-sectorial exchanges.

Parallel Session 3: CONSUMER AND CITIZEN ENGAGEMENT

The Consumer and Citizen Engagement Working Group will articulate its session around three main exercises. After a recap of the work and functioning principles of the working group, we will have a first workshop in sub-groups, dedicated to new projects joining, with an "open hour" moment, that will allow participants to discuss the content and work methodology with subgroup leaders, and as well as with the chair of the working group.

We will have a second workshop in sub-groups around the question of the showcasing of the work delivered in 2020 and 2021. This breakout session will allow subgroups to work on proposals to create engaging formats for their deliverables and plans defined for 2021. We will finish with a segment on "Stories of Engagement" where you will get to share and listen to stories of community building and consumer engagement.

Sub-groups:
- Governance models & Organizational models
- Group building
- Smart tools
- Assessment of engagement
- Socio-economic drivers of engagement

Objectives of the Meeting
- Welcome new members.
- Explore ways to showcase the work of the Working Group and to make it engaging.
- Share stories and experiences of engagement in R&I projects

Parallel Session 4: UNLOCKING THE POTENTIAL OF EU ISLANDS TO BECOME THE LOCOMOTIVES OF EUROPEAN ENERGY TRANSITION

As recognized by the "Political Declaration on Clean Energy for EU Islands" signed in 2017, Islands and island regions face a particular set of energy challenges and opportunities due to their specific geographic and climatic conditions. The opportunities have the potential to make Europe's island communities innovation leaders in the clean energy transition for Europe and beyond - a fact the European Commission explicitly recognised in its Communication on [Clean Energy for All Europeans](#).

Energy production costs on EU island are up to ten times higher than on the mainland; therefore, the large-scale deployment of local renewable energy sources and storage systems brings economic benefits and, at the same time, contributes to decarbonising the energy system of the island, reducing greenhouse gases emissions and improving, or at least not deteriorate, air quality. In this context, the fast growth of energy production from renewable energy sources offers new and economically attractive opportunities for decarbonising local energy systems.

The parallel session will explore what are the key challenges to unlock the potential of EU islands in becoming the front-runners in the energy transition process. Together with different Energy Islands projects, participants will debate on how to decarbonise the local energy systems and how to develop renewable energy-base systems while ensuring a positive impact on the wider energy infrastructure, on the local economy and communities. They will also exchange views on how to enable an integrated local energy systems that can be used to create economically attractive conditions to boost local energy sources and activate local demand-response.

By bringing together different actors with their different experiences, the final scope of the parallel sessions is to identify concrete actions to be implemented by strengthening the collaboration between projects.

Parallel Session 5: INNOVATION AND APPLICATION OF DIRECT CURRENT TECHNOLOGIES

The key role of Direct Current (DC) technologies is emerging, and the energy community is ready to benefit from the capabilities and the business opportunities they can offer.

While DC technologies are underpinning many application areas and work at different voltage levels, the potential needs to be further identified and exploited. EC has addressed the Medium Voltage DC, is tackling now High Voltage DC and it aims to follow-up on Low Voltage DC. This is the implementation of the key actions emerged from the DC round table [1]organised by DG ENER on 17thMay 2018.

In this session, we would like to go deeper on innovation and trends for DC technologies, their potential application in the energy sector, intended as integrated with RES, EV, storage, sector coupling and other potential areas of application. The session will include presentations from the H2020 projects active in DC Technologies such as [list to be added]

Possible questions to be addressed on the overall DC technologies:
- Which are the benefits of using DC technologies in the grid?
- What is the impact of HVDC, MVDC, and LVDC? R&I perspectives in these sectors, i.e. where more R&D is needed?
- How do you see the role of DC technologies in the next decade or two?
- Do you think the grid transformation / transition can be achieved without recurring to DC technologies?
- Which are for you the barriers impeding a smooth development and penetration in the actual AC grid for the DC technologies?
- What is the impact of the cost of DC technologies on its development and penetration?
- What is the impact of Power Electronics in the development and penetration of DC technologies?
- Standardisation/regulatory issues.
- What else needs to be done to further support the DC technologies, overall and also thinking about the specific areas of application (offshore, onshore, etc.)?

Questions for the LVDC specific area:
- Can/how the overall grid / the utilities / manufacturers / consumers can benefit of LVDC?
- Which is the status of development of LVDC today?
- In which sector LVDC is most developed (homes, EV….)?
- Which are other potential areas for application?
- Are there technological barriers to be overcome? Status (electric arc, protections, etc.)
- -Are there non-technological barriers to be overcome?
- Which are the most urgent R&I needs, which can further support the development and deployment of DC technologies?

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[1] https://ec.europa.eu/energy/content/round-table-ac-dc-hybrid-grids-17-may-2018-conclusions_en

Parallel Session 6: BUSINESS MODELS

The business models session will offer the opportunity to the new projects joining BRIDGE to learn more about what are the actions that the ongoing projects are taking in these terms. This exchange of best practice will allow the new initiatives to optimise their use of resources and leverage on previous results.

Moreover, the ACCEPT project will present their plan for defining their business models including the concept that the project is developing for defining Business Models in an innovative way, moving aside from the traditional (one perspective) business canvases.

In addition, the "energy based cross-value chain services" concept will be addressed by a brief presentation introducing the topic. It will be analysed from the BRIGHT and BD4NRG perspective and is intended to be the basis for a short debate on sector integration and interoperability between data platforms.