



17th Executive Committee (ExCo17) Meeting

6 September 2023

Green Powered Future Mission Team



- 13:00–13:10 **Welcome and introduction**
- 13:10–13:30 **Feedback from CEM14/MI-8 Ministerial in Goa**
- a) GPFM related side events
 - b) National Pilots Report and main announcements
- 13:30–13:55 **Progress on Flagship Projects and Knowledge sharing Platform**
- a) FPI: National Pilots Report next steps and Continental Task Forces
 - b) FP2: Open call in Sept. 2023 and next actions
 - c) GPFM Internet Platform
- 13:55–14:20 **GPFM future engagements in late 2023**
- a) Chinese International Workshop (25–27 Oct., tbc)
 - b) TAG Mission Review
 - c) GPFM Annual Report 2023
 - d) MENA Climate Week (8–12 Oct.) and COP28 (30 Nov.–12 Dec.)
- 14:20–14:25 **Communications Activities update**
- 14:25–14:30 **AOB and conclusions**

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**GREEN POWERED
FUTURE**
MISSION

Welcome and Introduction by GPFM co-Leads Senior Officials



ExCo17 Participants



MI Countries		
Name	Member	Org./Country
Jian Sun	China	MOST
Anna Stephenson	UK	DESNZ
Stefano Raimondi	Italy	MASE
Jiayu You	China	MOST
Yibo Wang	China	IEE CAS
Jia Zhang	China	IEE CAS
Ran Bi	China	IEE CAS
Ziqi Wang	China	IEE CAS
Sarah Butler	UK	DESNZ
Marcello Capra	Italy	MASE
Teo Martin	Italy	MASE
Francesco Luca Basile	Italy	Uni. BO
Eleonora Sanseverino	Italy	Uni. PA
Luciano Martini	Italy	RSE
Mattia Cabiati	Italy	RSE
Viktorii Fedorova	Italy	RSE
Gloria Scalco	Italy	RSE
Rachele Nocera	Italy	MUR
Francesco Sergi	Italy	CNR
Ilaria Bencini	Italy	CNR
Monica Fabrizio	Italy	CNR
Giorgio Graditi	Italy	ENEA
Maria Valenti	Italy	ENEA

MI Countries			
Name	Member	Org./Country	
Peta Olesen	Australia	DISER	Core Members
Niall Jacobsen	Australia	DISER	
John K. Ward	Australia	CSIRO	
JBV Reddy	India	DST	
N.P. Padhy	India	IITR	
Akash Sagar	India	IITR	
Arpit Kumar	India	IITR	
Hisham Alhassnan	S. Arabia	Min. of Energy	
Basel Alsubaity	S. Arabia	Min. of Energy	
Abdullah Almehezia	S. Arabia	KACST	
Cristina Trueba	Spain	MCIN	Support Members
Oscar Izquierdo Monge	Spain	CIEMAT	
Felix Téllez	Spain	CIEMAT	
Luis Manuel Santos	Spain	EDP	
Eva María González	Spain	MCIN	
Helfried Brunner	Austria	AIT	
Gustavo Ponte	Brazil	EPE	
Michele Souza	Brazil	EPE	
Alexandre Prieur	Canada	NRCAN	
Patrick McCauley	Canada	NRCAN	
Josef Ayoub	Canada	NRCAN	
Rob Black	Canada	NRCAN	
Maria Getsiou	EU	EC	
Peter Horvath	EU	EC	
Ralf Eickhoff	Germany	Fz Juelich	
Yuko Kono	Japan	METI	
Keisuke Hosonuma	Japan	METI	
Akiteru Maruta	Japan	Technova	
Jun Hashimoto	Japan	AIST	
Hiroshi Kikusato	Japan	AIST	
TBC	Netherlands	-	
Jongho Lee	R. of Korea	MOTIE	
InAe Cho	R. of Korea	KETEP	

Private sector			
Name	Member	Org./Country	
Ivano Fadanelli	Alperia	Italy	Core Members
Annalisa Andaloro	Alperia	Italy	
Paola Penna	Alperia	Italy	
Ercole De Luca	Areti	Italy	
Massimo Bonato	Areti	Italy	
Viviana Vitto	Enel Grids	Italy	
Mena Testa	Enel Grids	Italy	
Endi Zhai	Goldwind	China	
Qizhong Shi	Goldwind	China	
Gavin Starks	Icebreaker One	UK	
Jenna Ilic	Icebreaker One	UK	Support Members
Zhenguo Li	longi	China	
Yaohua Shang	longi	China	
Li Jiang	longi	China	
Si Wang	longi	China	
Dong Wang	longi	China	
Chen Zhu	longi	China	
Tim Gregory	National Grid	UK	
Alexander Riddiford	National Grid	UK	
Sebastian Van Dort	BSI Group	UK	
Abbey Dorian	BSI Group	UK	
Dan Clarke	ENA	UK	
Farina Farrier	ENA	UK	
Alberto Biancardi	GSE	Italy	
Alberto Jr Pela	GSE	Italy	
Luca Marchisio	TERNA	Italy	
Luca Orrù	TERNA	Italy	
Stefano Tedeschi	TERNA	Italy	
Antonio Iliceto	ETIP-SNET	EU	

International organisations			
Name	Member	Org.	
Francisco Boshell	IRENA	IRENA	Support M. Core Members
Arina Anisie	IRENA	IRENA	
Martina Lyons	IRENA	IRENA	
Mirlan Aldayarov	World Bank	WB	
Vida Rozite	IEA	IEA	
Pauline Henriot	IEA	IEA	
Emi Bertoli	IEA	IEA	
Ghislaine Kieffer	IEA	IEA	
Irmgard Herold	MI Secretariat		Support M. Core Members
Andrew Pease	MI Secretariat		
Tom Rollason	Private Sector Engagement		

ExCo17 participants
in **bold**

Upcoming events & Timeline



July – October main events:

- 6 July ExCo16 Meeting
- 19–22 July CEM14/MI-8 Ministerial Meeting in Goa, India
- 6 Sept **ExCo17 Meeting**
- 20 Sept Joint GPFM–CETPartnership Call Opening
- 8–12 Oct MENA Climate Week, Riyadh, Saudi Arabia (TBC)
- 25–27 Oct GPFM International Workshop hosted by China

Continuous engagements:

- **Co-Leads** weekly calls
- **Co-Leads Senior Officials calls**
- **MI Missions** working group calls
- Coordination meetings with **Urban Transitions Mission** and **CETPartnership**

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GPFM participation at CEM14/MI-8 in Goa



CEM14/MI-8, Goa, India
19-22 July 2023



ISGAN-GPFM side event

CEM ISGAN – MI GPFM collaboration for power system transformation, with special focus on policy and private sector engagement



GPFM event

Spotlight on GPFM:
towards 5 demos in five continents



ISGAN-21CPP-GPFM side event

CEM-MI collaboration for technology innovation and implementation, policy, and regulatory actions to rapidly decarbonize power systems



GPFM – ExCo17 meeting – 6 September 2023

GPFM-ISGAN side event on 20 July, Goa



- Opening Remarks by **MI Steering Committee Vice Chair** and **Head of the CEM Secretariat**, on the importance of translating ambitions to actions and corresponding need for **close MI-CEM collaboration**
- GPFM and ISGAN **highlights, impact** and **synergies**
- Public release of **GPFM's National Pilots Report** and **ISGAN Policy Brief "Network Planning under Uncertainty"**
- Roundtable discussion among **Government, Private Sector, and Academia Reps** on advancing power system transformation, with a **special focus on policy and private sector engagement**



See related [LinkedIn post](#) on the GPFM page

GPFM dedicated side event on 20 July, Goa



- Opening Remarks by **Anita Gupta** (DST, India), **Anna Stephenson** (DESNZ, UK) and **Stefano Raimondi** (MASE, Italy) on the importance of power systems decarbonization
- **GPFM main activities** and the **National Pilots Report** towards the Flagship Project 1 FP1 “5 demos in five continents”
- **Asian Demonstration Launching** and foreseen activities
- Overview of **India’s contribution** to the GPFM activities
- Panel discussion among GPFM coalition member countries representatives on exemplary of **key innovation programmes and initiatives** with special focus on India moderated by N.P. Padhy



See related [LinkedIn post](#) on the GPFM page

GPFM-ISGAN-21CPP side event on 20 July, Goa



- Opening Remarks by **Kathryn Huff, US DOE** and **Paula Pinho, EC**
- **IEA keynote by Paolo Frankl** on **key opportunities** and **challenges** for achieving power system decarbonization
- **High-level roundtable on power**, addressing implementation, technology innovation, and policy and regulatory actions that can rapidly decarbonize power systems
- Highlights of **ISGAN, 21CPP, GPFM, 3DEN innovation strategies, main activities**, related outcomes, and synergies, underlining the importance of **working together** to accelerate power system decarbonization

See related [LinkedIn post](#) on the *GPFM* page



CEM14/MI-8 side events: GPFM contribution



Participation and contribution to the following MI sessions and roundtables:

- ***“The transition towards low-carbon affordable heating and cooling solutions – The way ahead”*** side event organized by the Innovation Community on Affordable Heating and Cooling of Building
- ***“Mission Innovation Think Tank: Strengthening Clean Energy Innovation Policy, Programs and Collaborations through Knowledge Sharing”*** side event organized by Mission Innovation Secretariat



A warm thanks to ExCo Colleagues J.B.V Reddy from DST, India and Patrick McCauley from NRCan, Canada for the kind invitation!

GPFM main announcements at CEM14/MI-8

- Release of the **National Pilots Report** during the ISGAN-GPFM joint side event “CEM ISGAN – MI GPFM collaboration for power system transformation, with special focus on policy and private sector engagement” on 20 July 2023
- Foreseen **opening of the Joint Call Module** in collaboration with **CETPartnership** during dedicated GPFM side event “Spotlight on GPFM: towards 5 demos in five continents” on 20 July 2023



National Pilots Report officially released at the **CEM14/MI-8**, Goa, India on 20 July 2023



GPFM National Pilots Report

- Vital response to the **GPFM Action Plan 2022–2024**
- A key milestone towards the Flagship Project 1 **“5 Demos in five continents”**
- Relevant information about **80 ongoing** and **planned National Pilot projects**:
 - From **25 GPFM members** and **12 different countries**
 - Fully aligned with the identified **Innovation Priorities**
- Dedicated sections on **members’ decarbonization targets** and main **innovation activities**

A big thanks to all ExCo members that contributed to this Report!



The GPFM National Pilots Report is available at:
www.mission-innovation.net/missions/power

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80 National Pilot Projects

42 Public funded projects

34 Co-funded projects

4 Private funded projects

62
Ongoing Projects

18
New Projects

From **12** Countries



50
Innovation Priorities addressed
out of 50 covered

50+ Use Cases
addressed

Links & synergies with MI Missions



Fruitful connections and opportunities with MI Missions, in particular with:

➤ **Clean Hydrogen Mission**

- Ongoing dialogue and **mutual interest** to search for collaboration opportunities



➤ **Urban Transitions Mission**

- **Joint sessions** to be hosted at **COP28** – opportunities being explored in several pavilion
- Analysis of **current pilots** selected **for urban context** – identification of **complementary measures** to support cities in rolling out pilots, within the framework of holistic urban transitions through UTM support
- Identification of **new/ future potential pilots** of interest in cities part of UTM and not yet considered – shared **selection of promising test-beds** for GPFM innovation and joint roll out of pilot activities

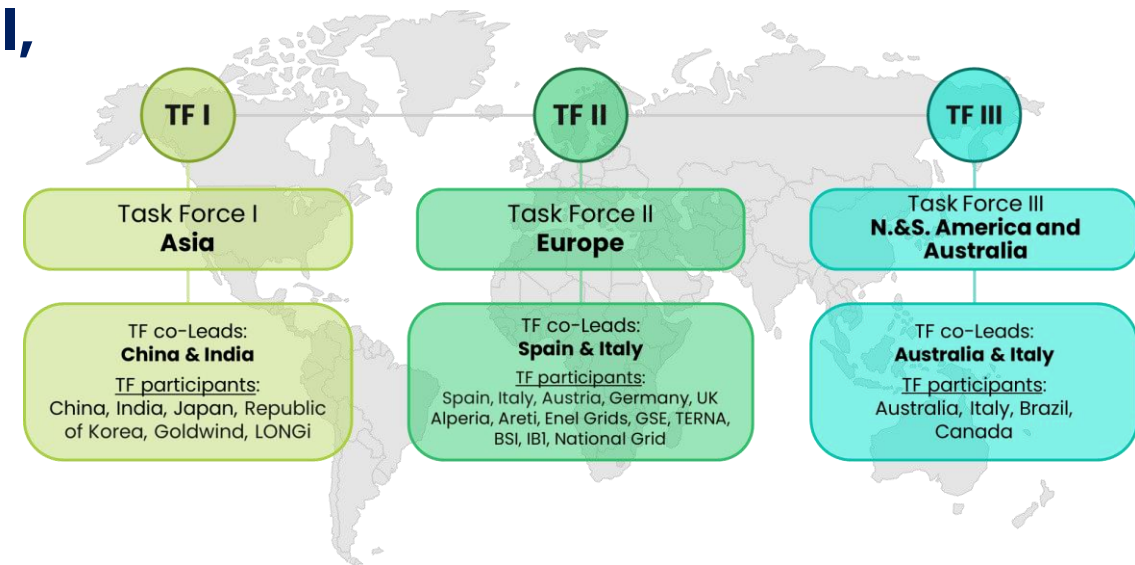


The next steps towards FP1

“5 demos in five continents”

- Monitor **national pilot projects’ progress** by engaging pilot coordinators and main public and private partners
- Demonstrate different **innovative technical, regulatory and market solutions** to be implemented and validated in different climates and geographies
- Share the **main learning** and **exploitable results** as soon as national pilot projects start their dissemination phase
- Populate the **GPFM Toolbox** with **proven innovative solutions**, to be disseminated broadly

3 Continental Task Forces



Continental Task Forces meetings

Task Forces past meetings:

- **1st Continental Task Forces Meeting on 4 April** to define TF scope and objectives
- **Task Force II co-Leads pre-meeting on 19 May** (Spain & Italy) in preparation to the Task Force II meeting on 31 May
- **Task Force II Meeting on 31 May** to present and discuss main TF activities, timeline, documents repository and pilot projects reporting
- Task Force and **Continental Demo launching** sessions in Goa, India and at the upcoming **GPFM International Workshop** in China



(Draft) template to be filled-in by Task Force members for **each pilot project**

<i>Pilot Project Main information</i>	<i>Answer</i>	<i>Notes</i>
Name and Identification number	Spain #2	Please add the name of the project and the website link (e.g., Spain #2, Italy #1)
Starting date - ending date		
Initial TRL level - TRL level to be achieved		
Coordinators and main actors		
Phase/status	A - foreseen	Please use the drop-down menu
Progress	10-15%	Please use the drop-down menu
Infrastructure location(s)		Please add the place/pilot site (and GPS)
Infrastructure main assets		Please list the main assets and their technical characteristics: (e.g., BESS 100kW/100kWh, PV panel 20kWp, SCADA, n.6 EV charging points, DC/AC transmission and distribution grid)
Addressed R&I topics and IPs	1.3 Integrated Renewable Energy 2.5 Demand-Side and EV Flexibility	Please list the IPs, as 1.3.2, 1.3.3, 1.6.1, 1.6.2, 2.3.1, 2.3.2, 2.3.3, 2.3.4, 2.3.5, 2.5.1, 2.6.1, ...
Main achievements	- Data exchange protocol - Advance RES forecasting - New planning procedure	Please list the already available project achievements such as a new algorithms, proven solutions, ...
Innovative solutions Replication & Dissemination		
Possible synergies "S" and/or complementarities "C"	S: with Italy #3, Austria #1 C: with UK #1, Enel #3	

EXAMPLE

1) A - **foreseen**, B - **launched**, C - **study and simulation**, D - **implementation**, E - **experimental activity**, F - **demonstration**, G - **results assessment**, H - **dissemination**, I - **conclusions**, J - **other**

2) 0%, 10-15%, 20-45%, 50-75%, >80%, 100%

FPI Task Force II Europe: **template for TF leads periodic report**

Lead: Spain & Italy

TF II Members: Austria, EC, Germany, Italy, Spain, UK, Alperia (IT), Areti (IT), Enel Grids (IT), Icebreaker One (UK), National Grid (UK) BSI (UK), ENA (UK), GSE (IT), Terna (IT)

Projects' highlights:

- *Number of TF II EU Pilot Projects: **67***
- *Covered Innovation Priorities: **50** out of 50*
- *Phases: how many projects in each phase (foreseen, launch, etc.)*
- *Projects' budget (0-5 M€, 5-10 M€, ...)*

EXAMPLE

Main outcomes for the period – Jan.–Feb./Mar.–Apr./May–Jun., and next steps:

- *Main outcomes from the national pilot projects analysis*
- *Main synergies among the projects*
- *Next actions and foreseen activities*
- ...

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GPFM-CET Partnership Joint Call Module 2023



- Joint Open Call Module 2023 (TRI 1-2 & MI)
- Call Module title ***“Energy system flexibility: renewables production, storage and system integration”***
- Aims to advance key innovation priorities for **power system decarbonization** and transformation, while enhancing **international cooperation** in these areas
- Call open for applications on **20 September 2023**



Joint Call Module 2023 is available at: <https://cetpartnership.eu/joint-call-2023-documents>

CETPartnership Joint Call 2023 Milestones



Milestones	Date
CETPartnership Joint Call 2023 Infoday 1	13 September 2023, ONLINE
Stage 1 Opening: Pre-proposal submission	20 September 2023
Stage 1 Closing: Deadline for Pre-proposal submission	22 November 2023, 14:00 CET
Stage 2 Opening: Full Proposal submission	25 January 2024
Stage 2 Closing: Deadline for full proposal submission	27 March 2024, 14:00 CET
Funding decision communicated	June 2024
Project start (Tentative)	September 2024
Application to National/Regional Funding Agencies	Consult specific Funding Agency Annex

CETPartnership Joint Call 2023 Info Day



- **Date:** 13 September 2023, 10:00–13:00 CEST
- **Where:** Online
- **Registration link:** <https://clean-energy-transition-partnership-2023.cetp.b2match.io>

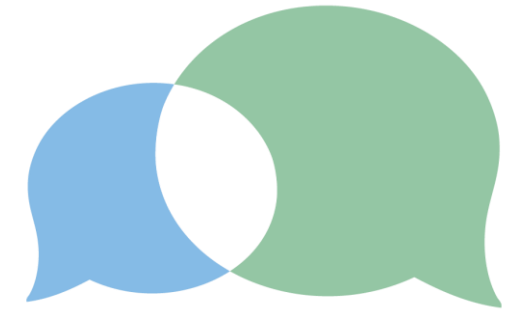
AGENDA:

- 10:00 – Welcome & CETPartnership overview
- **Information on Joint Call 2023:**
 - 10:10 – Presentation of Transition Initiatives & Call Modules
 - 10:55 – 2023 CETP Calls
 - 11:15 – How to submit your proposal, templates, & evaluation
 - 11:35 – Statistics on 2022 Calls
- 11:50 – Q&A session
- 12:20 – Closing in plenary
- 12:30 – National Q&A session
- 13:00 – 18:00: Opportunity for Individual Matchmaking sessions



Open discussion: Flagship Projects progress and next steps

- **R&I Pillars** foreseen activities
- **Flagship Project 1:**
 - Task Forces (TF) main activities and next steps
 - TF meetings schedule: update from TF co-leads
 - Any comments/suggestions to the template to be filled-in by Task Force members
- **Flagship Project 2:**
 - Infoday on 13 September and specific LinkedIn posts to duly advertise the call opening
 - Joint Call Opening on 20 September and related timeline
 - GPFM Members' funding agencies possible support



Agenda

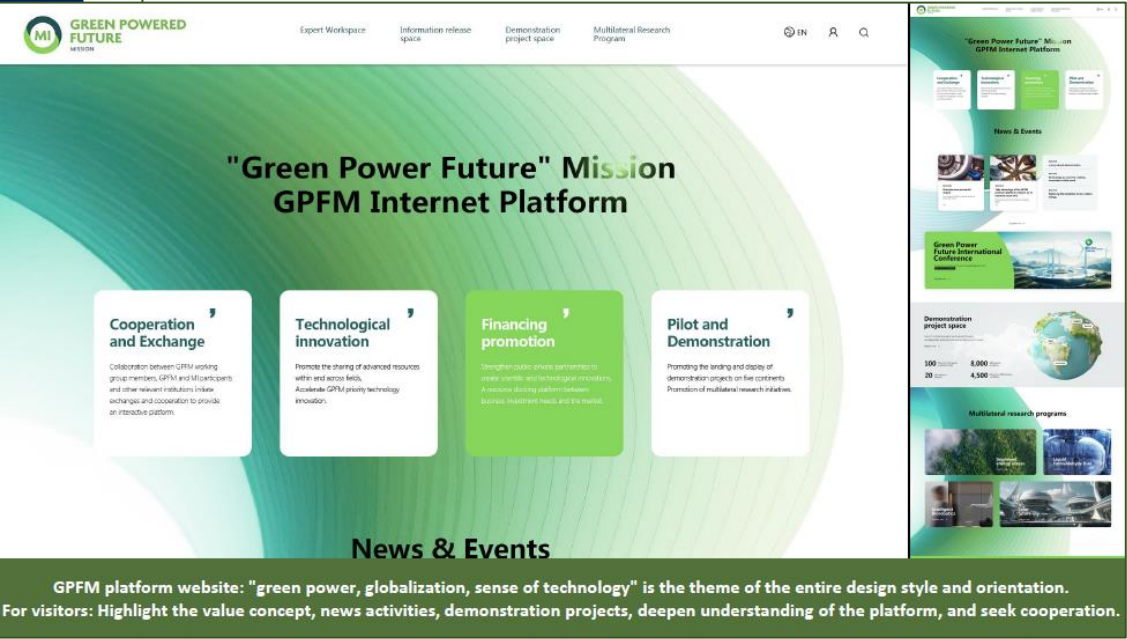
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GPFM Internet based knowledge sharing Platform / GPFM Toolbox



Internet Platform for the Green Power Future Mission

Design Specification and Technical Solution Selection



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GPFM foreseen engagements

- Several **GPFM International Workshops** are under preparation:
 - 25-27 Oct. 2023 – 3-day GPFM International Workshop hosted by IEECAS/China
- Foreseen **GPFM participation** in international meetings/fora:
 - 8-12 October 2023 – MENA Climate Week, Riyadh, Saudi Arabia
 - 30 Nov.-12 Dec. 2023– COP28, Dubai, United Arab Emirates (UAE)





**GREEN POWERED
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International Workshop By Chinese Co-leads

MI Chinese Secretariat



International Workshop – Global GPFM: Embracing Offshore Wind and PV Brilliance

- 25–27 October, Yancheng City, Jiangsu Province, China
- Organized by IEECAS, Yancheng Municipal People’s Government, MI Chinese Sec
- In-Person (Professional Interpretation Services)
- **Advancing Global Green Power Cooperation through**

GPFM

- Mission Innovation 2.0 Initiative
- 100% Renewable Energy Integration Goal by 2030
- High-Level Participation from Governments, international Organizations, and Enterprises, including Senior Officials from Gov., Academicians, Scholars, CEOs, CTOs, etc.



International Workshop

Agenda and Highlights

- **Workshop Highlights:**

- Focus on GPFM Asian **Demonstration** Program
- Providing **Guidance** for Green Power Transition
- Bringing **Together** High-Level Representatives
- Promoting Global Green Power **Cooperation**

- **Agenda Overview:**

- **Day 1:** GPFM Intergovernmental Project Launch Meeting (Closed-door Meeting, ½ day in the afternoon)
- **Day 2:** Main forum (1 day)
 - **Session I:** Vision and Mission of Green Power
 - **Session II:** Academic Perspectives: Directions in Green Power Technology Innovation
 - **Session III:** Innovation Trends and Demonstrative Cases in Green Power Technology
 - GPFM Cutting-edge Development of Innovation Priorities
 - "Five Continents in Five Demos" Case Sharing
- **Day 3:** Deeply technical visit (1 day)

The 2 nd day: The Main Workshop: GPFM International Workshop	
8:00-9:00	Sign-in
The Opening Session Moderator: Rujun Tang, Deputy Mayor of Yancheng Municipal People's Government, Jiangsu Province	
9:00-9:25	Opening remark Family photo (specially invited representatives) <ul style="list-style-type: none"> • Bin Zhou, Secretary, the Yancheng Municipal Party Committee, China • Jian Sun (TBC), Deputy Director General, Department of International Cooperation, Ministry of Science and Technology, China • Zhenyu Wang (TBC), Deputy Director, Bureau of International Cooperation Chinese Academy of Sciences • Yaohua Li (TBC), Director, IEECAS
Session I: Vision and Mission of Green Power Moderator: Yibo Wang	
9:25-9:40	GPFM overview <ul style="list-style-type: none"> • Luciano Martini (TBC), Director of the Transmission and Distribution Technologies Department at RSE in Milano (Italy), GPFM Director
9:40-9:55	GPFM Asian Demonstration Launch Ceremony <ul style="list-style-type: none"> • Yibo Wang • Representatives of Asian demonstration countries, business representatives (China Three Gorges Corporation, Goldwind, LONGI, China Railway Rolling Stock Corporation (CRRC), etc.)
9:55-10:10	TBC <ul style="list-style-type: none"> • Emi Bertoli (TBC), Energy Analyst, International Energy Agency
10:10-10:25	TBC <ul style="list-style-type: none"> • International Renewable Energy Agency

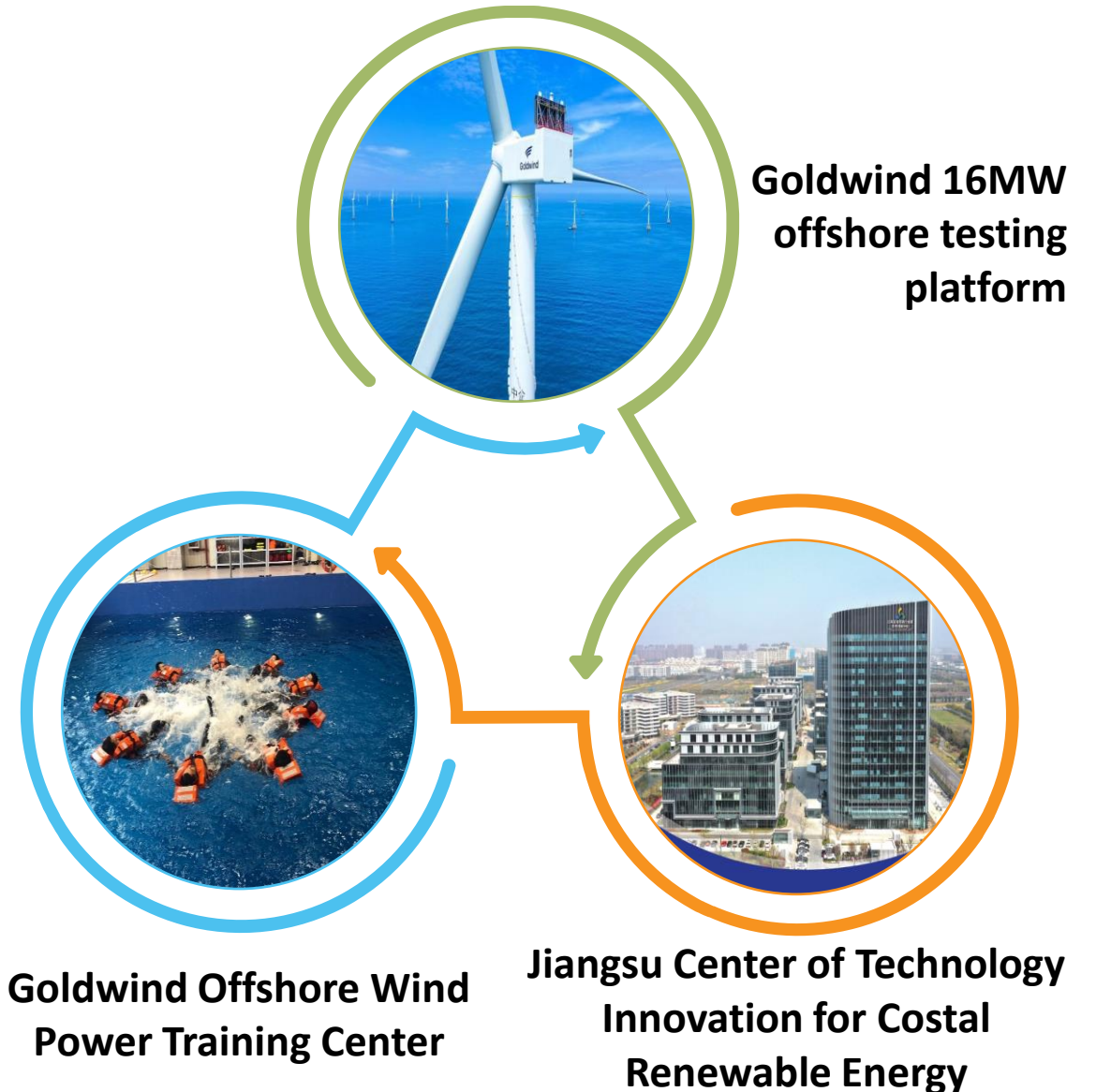
Session II: Academic Perspectives: Directions in Green Power Technology Innovation		
Moderator: TBD		
10:40-11:00	Emerging Power Systems (TBC)	Academician Xiaoxin Zhou (TBC)
11:00-11:20	Photovoltaic Technology (TBC)	Academician Deren Yang
11:20-11:40	Power Electronics Technology (TBC)	Academician Yongdong Li
11:40-12:00	Integrated Energy Technology (TBC)	Academician Jerry Yan
12:00-14:00	Lunch	

Session III: Innovation Trends and Demonstrative Cases in Green Power Technology	
14:00-15:00	GPFM Cutting-edge Development of Innovation Priorities Moderator: N.P. Padhy (TBC), Professor of MNIT Jaipur, India
	High-efficiency photovoltaic cell technology <ul style="list-style-type: none"> • Jun Chen, LONGI • Yi Hou, NUS Ultra High-Power Offshore Wind Turbine Technology <ul style="list-style-type: none"> • Endi Zhai, Chief Engineer, Goldwind, and President of the Group's Central Research Institute Power system flexibility technology <ul style="list-style-type: none"> • Tianshu Bi, Vice President, North China Electric Power University • Mattia Cabiati (TBC), Researcher of RSE, GPFM Pillar2 "System flexibility and market design" Lead Power system digitalization technology <ul style="list-style-type: none"> • Xiyuan Ma, Researcher of China Southern Power Grid Digital Grid Research Institute • Sarah Butler (TBC), Energy Innovation Program Manager, Department for Business Energy and Industrial Strategy, UK, GPFM Pillar3 "Data and digitalisation for system integration" Lead
	"Five Continents in Five Demonstrations" Case Sharing Moderator: TBD, United Kingdom/Canada

International Workshop

Technical Visits

- **Day 3:** Deeply technical visits (1 day)
 - Goldwind 16MW offshore testing platform
 - global first 16-megawatt offshore wind turbine; setting three global records for maximum single-unit capacity, largest rotor diameter, and lightest unit megawatt weight among installed units
 - the Goldwind Offshore Wind Power Training Center
 - Awarded by GWO Blade repair training
 - Jiangsu Center of Technology Innovation for Costal Renewable Energy
 - High-Power Power Electronics and Advanced Control Laboratory
 - Device and Material Performance Characterization Laboratory



International Workshop – Global GPFM: Embracing Offshore Wind and PV Brilliance

- **Save the Date:** October 25th – 27th, 2023
- **Location:** Yancheng City, Jiangsu, China
- **Opportunity for interaction with Chinese government, industry, academia, and research.**
- **Next step:** please watch for individual invitation.



Technical Advisory Group (TAG) Mission Review

- The aim of the **TAG review process** of the Missions is to provide independent assessment of the Missions to the MISC to ensure they are effective as possible and to provide Missions with **advice on opportunities, risks and recommendations**.
- Each Mission is requested to complete the **dedicated questionnaire**, providing **Mission-specific milestones and KPIs** from Action Plans.
- The progress of Missions will be checked against the **Action Plan published in 2022**, and in line with the evaluation framework.
- TAG members will provide **advice** on both **opportunities** to enhance **Mission impact**, but also on possible mitigation of any major risks to Missions' Executive Committees and to MISC.
- **Date:** 8-22 November 2023
(proposed two-week time for GPFM interview)

Commitments of members

1. In most Missions co-leads have driven the work (eg, on creating the Roadmap/Action Plan) so far. Is this true for your Mission also? Do co-leads evenly contribute?
2. Have you managed to involve core and support partners effectively?
 - a. Have they been regularly informed through eg, ExCo meetings?
 - b. Do core/support partners lead on any sprint/activity/task?

Mission Outputs

1. Please list the main outputs delivered by the Mission? *Output examples: reports published, workshops delivered, funding calls, projects supported, talks delivered...*
2. Are these outputs meeting what was described in your Action Plan?
3. Which of these deliverables would you describe as minister-level deliverables? (ie deliverables of sufficiently high noteworthiness to be announced by a minister)

Collaboration and Engagement

1. Is the private sector involved in your Mission (please list)?

Annex B - Review questionnaire for Missions to complete

The answers to the questionnaire from Missions should be concise (bullet points are sufficient and encouraged).

X Mission Launch Date: X

Value added and impact

1. Include a summary of the existing international RD&D landscape in your sector and where your Mission fits into this.
2. To what extent is the Mission doing something that would not be done by others?
3. What has been the key impact to date of Mission activities?
4. What have been your Lessons Learned over this past year?
 - o ...
 - o Grande interesse da parte dei membri ma scarso interesse a prendere posizioni di leadership.

Progress against action plan

Here a list of KPIs, milestones and barriers (against which progress could be attributed to Missions) will need to be identified in advance by each Mission.

1. Discuss Mission status against each KPI/milestone as laid out in the Action Plan and agreed with TAG.
 - a. Is the mission on track to meeting its milestones? Include reasoning against each milestone.
 - b. If not, how are you planning to address this?
2. For each key barrier (to reaching the Mission Goal) identified in your roadmap and/or Action Plan and agreed with TAG for review, please highlight any progress enabled by the mission.¹
3. Considering all the factors above, is the current mission progress consistent with meeting 2030 goals?
 - a. Do you need to update Milestones/KPIs to achieve the Mission's 2030 goal?

¹ Here, there will need to be careful work between the Missions and the MI Sec Missions and Insights teams to identify barriers that can be clearly addressed by Mission Progress.

GPFM Annual Report (Sept. 2022 – Aug. 2023)



Sarah Butler

GPFM Pillar 3 Lead

Energy Innovation Programme Manager,
Department for Energy Security & Net Zero
(DESNZ), UK

August 2023

Green Powered Future Mission: Annual

Purpose of the yearly action plan update (as set out in the Mission's Action Plan)

The Mission intends to institute a yearly update for the Action Plan published annually ahead of the Ministerial. The Mission of Programmes and Projects submitted by members in relation to the Action Plan (see Chapter 2), and each year Members will be asked to report progress annually and for the Mission to monitor progress against the Mission Goal.

The Mission, in the published action plan, set out a number of key performance indicators (KPIs) to track the yearly update. These are as follows, and encompass a range of organisational performance indicators.

- Cumulative funding spent (this will be taken as the total funding spent on the Mission, as highlighted by members as contributing to the Mission's Action Plan (Chapter 2))
- Number of Innovation priorities tackled by Mission's Innovation Priorities as tackled by R&I activity tackled by Flagship projects (Chapter 3)
- Number of demo projects underway (this will be as part of the continental demos under Flagship Projects)
- Number of members actively contributing to the members contributing R&I activities and involved in regular organization and engagement in Mission statistics of attendance at regular Mission ExCos)
- Regular update of the GPFM progress against the regular and annual publication of the Action Plan
- External engagement and knowledge dissemination: regular update of the GPFM Internet-based platform opportunities and engagement in dissemination of the Mission's work

Actions needed to collect KPI information

KPI	Action
1	Ask members to submit an update to the central mission website, detailing their contribution to the most urgent Innovation Priorities in the initial Action Plan R&I survey. Members should include this master sheet, noting any new activities, and in the update, provide a judgement on whether the activity is (a) percentage complete judgement)
2	Following the update to the R&I survey, combine the number tackled by the flagship projects
3	Establish the number of projects which are part of the Mission's Innovation Priorities
4	Establish the number of members out of the whole Mission who have provided R&I survey returns
5	Average attendance rate at Exco meetings- number attending, and average across all the Exco meetings
6	NA
7	Number of engagement events or dissemination activities either held by the mission or mission members have attended and noted the mission at- ask members to send in any of relevance

Annual Report Contents

Section	Sub-section	Number of pages	Detail of what should be covered
Introduction		1 Page	Covering a very succinct introduction to GPFM (what it is, what it does and how it is governed), referencing the other documents we have already produced for further detail (e.g. the Action Plan and National Pilots Report), and introducing what the annual report is and its structure (using the commitment set out in the action plan)
Progress against the Action Plan and towards the Mission Goal	Gantt chart	1-2 Pages	Presenting the gantt chart for the Mission on 1 page/ across 2 pages, covering all mission activity in the action plan and key milestones (R&I, flagship projects, collaboration and engagement); marking on the gantt chart where the mission is and which milestones have been met
	KPIs	3-4 Pages	Graphics showing how the Mission is performing against its KPIs. Suggest a split between a graphic focussing on: <ol style="list-style-type: none"> R&I activity (KPIs of spend, N priorities, demos) and, Mission delivery (member engagement, external engagement etc)
	R&I activities	1 page	Narrative to accompany the KPI diagram for R&I activity, drawing out the headlines, stating how the mission has progressed against R&I activity, and any new activity added. Including a few case studies of activity from across different innovation priorities which have shown significant progress (percentage complete) this year.
	Flagship projects	0.5 page	Short narrative to accompany the KPI diagram for flagship projects. This should mainly reference the National Pilots Report for the main source of information at this stage on the national pilots; and give a status update on flagship project 2
	Mission delivery	0.5 page	Narrative to accompany the KPI diagram on mission delivery, pulling out headlines of the annual progress and update for: <ul style="list-style-type: none"> Member engagement with the mission- Exco attendance and members with activity Mission engagement with other international bodies and groups and with the private sector
Challenges & Barriers		1 page	A short description of the main risks facing the mission and how these are being managed. This could include risks such as: <ul style="list-style-type: none"> Clarity on where the mission sits amongst other international initiatives Economic pressures



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Annual Report Planning

Update

6th September 2023

Annual Report

Purpose



Action Plan Commitment:

The Mission intends to institute a yearly update for the Action Plan which will result in a document, published annually ahead of the Ministerial. The Mission will maintain a central master spreadsheet of Programmes and Projects submitted by members in response to the initial Action Plan R&I survey, and each year Members will be asked to provide an update on their R&I activities. This mechanism will give members the opportunity to report progress annually and for the Mission to monitor progress.

Period Covered:

Propose that this be September 2022-August 2023 in line with action plan publication and ministerials

KPIs:

1. Cumulative funding spent
2. Number of Innovation priorities tackled by Mission's
3. Number of demo projects underway
4. Number of members actively contributing to the Mission
5. Regular organization and engagement in Mission ExCo meetings
6. Regular update of the GPFM progress against the action plan
7. External engagement and knowledge dissemination of the Mission outputs

Annual Report

Structure

Section	Sub-section	Number of pages	Detail of what should be covered
Introduction		1 Page	Introduction to GPFM and what the annual report is
Progress against the Action Plan and towards the Mission Goal	Gantt chart	1-2 Pages	Gantt chart for the Mission covering all mission activity in the action plan and key milestones
	KPIs	3-4 Pages	Graphics showing how the Mission is performing against its KPIs. 1. R&I activity (KPIs of spend, N priorities, demos) and, 2. Mission delivery (member engagement, external engagement etc)
	R&I activities	1 page	Narrative to accompany the KPI diagram, including headlines of how the mission has progressed against R&I activity, and case studies of activity from across different innovation priorities which have shown significant progress this year.
	Flagship projects	0.5 page	Narrative to accompany the KPI diagram referencing National Pilots Report for the main source of information at this stage.
	Mission delivery	0.5 page	Narrative to accompany the KPI diagram pulling out headlines of the annual progress and update on member engagement with the mission and Mission engagement with other international bodies and groups and with the private sector
Challenges & Barriers		1 page	A short description of the main risks facing the mission and how these are being managed.

Annual Report

Next steps



- Collect update on the R&I survey from all members, updating the master sheet of programmes and projects contributing to the most urgent Innovation Priorities, including % activity complete
- Members to flag any particular programmes and projects which have significantly progressed in the last year and could be highlighted as a case study
- Members to flag any engagement and dissemination activity
- Mission co-leads to support with data on mission engagement (member and external)
- Aim to distribute at COP

Plans for MENA Climate Week and COP28



COP28
UAE

<p>MENA Climate Week October 8-12, Riyadh, Saudi Arabia</p>	<p>COP28 November 30-December 12, Dubai, UAE</p>
<ul style="list-style-type: none"> • Mission attendance – 2-3 GPFM members attending, including GPFM Director Luciano Martini • Side event plans – joint GPFM-ISGAN-21CPP side event application submitted: <i>“CEM-MI collaboration as enabler to address global energy challenges and accelerate power system deep decarbonization”</i> • Announcements – FP1 activities progress, Open FP2 joint call 2023 in cooperation with CETPartnership 	<ul style="list-style-type: none"> • Mission attendance – 3-4 GPFM members Reps (GPFM Director, etc.) • Side event plans – application for a GPFM dedicated side event at the Italian Pavilion: <i>“Mission Innovation Green Powered Future Mission: National pilots for net zero power systems”</i> and a joint UTM-GPFM side event (TBC) • GPFM Director contribution to the IEA 3DEN initiative final outcomes (TBD) • Also likely to have presence at UNFCCC Innovation Hub and/or an event at SDG7/SEforALL pavilion (TBC) • Announcements – GPFM knowledge sharing Toolbox, release of the GPFM Annual Report, announcement about FP1 5 demos in five continents and related Continental Task Forces (TBC)

Agenda

- 13:00–13:10 **Welcome and introduction**
- 13:10–13:30 **Feedback from CEM14/MI-8 Ministerial in Goa**
- a) GPFM related side events
 - b) National Pilots Report and main announcements
- 13:30–13:55 **Progress on Flagship Projects and Knowledge sharing Platform**
- a) FP1: National Pilots Report next steps and Continental Task Forces
 - b) FP2: Open call in Sept. 2023 and next actions – [TRI2 lead](#)
 - c) GPFM Internet Platform – [IEE CAS](#)
- 13:55–14:20 **GPFM future engagements in late 2023**
- a) Chinese International Workshop (25–27 Oct., tbc) – [IEE CAS](#)
 - b) TAG Mission Review
 - c) GPFM Annual Report 2023 – [UK DESNZ](#)
 - d) MENA Climate Week (8–12 Oct.) and COP28 (30 Nov.–12 Dec.)
- 14:20–14:25 **Communications Activities update**
- 14:25–14:30 **AOB and conclusions**

Comms activities during CEM14/MI-8

Active promotion of the GPFM participation at CEM14/MI 8 in Goa:

- **GPFM main announcements** published on Mission Innovation website, MI newsletter and GPFM LinkedIn page
- Promotion of the **3 side events** on the official LinkedIn Page with **related agenda** and **livestream links**
- **Re-post of LinkedIn posts** related to the CEM14/MI-8 for comments and interactions
- **3 follow-up LinkedIn posts** to report **key messages and main outcomes** from the Side events



Foreseen comms activities



Planned comms activities in Sept–Oct:

- Promotion of the **Joint GPFM–CET Partnership Call Module**
 - Infoday on 13 September
 - Call Opening on 20 September (pre-proposal submission)
- Promotion of the **UTM open call** for cities to join the Urban Transitions Mission **City cohort**
- GPFM participation at **MENA Climate Week**
 - Side event promotion (if approved)
- GPFM **International Workshop** in China
 - Event agenda, promotion and follow up posts



COP28
UAE

Agenda

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Thank you for your attention

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