

21 February 2024

# 2024 Meeting of the Members of the Global Network on Sustainable Water and Energy Solutions

## *Welcome*

*Ivan Vera*

*Senior Advisor*

*Division for Sustainable Development Goals (DSDG)*

*United Nations Department of Economic and Social Affairs (UN DESA)*



2024 Meeting of Members of the  
Global Network on Sustainable Water and Energy Solutions

# **AGENDA**

- 1. Welcome**
- 2. Introductions**
- 3. 2023 Annual Report**
- 4. 2024 – 2027 Tentative Workplan**
- 5. Discussion on Workplan and Support from Members (In-kind/Financial)**  
*Members are invited to indicate their future contributions to the Network*
- 6. Additional information on major 2024 events**
- 7. Any Other Business (AOB)**
- 8. Closing**



# 2024 Meeting of Members of the Global Network on Sustainable Water and Energy Solutions

## Agenda Item #2

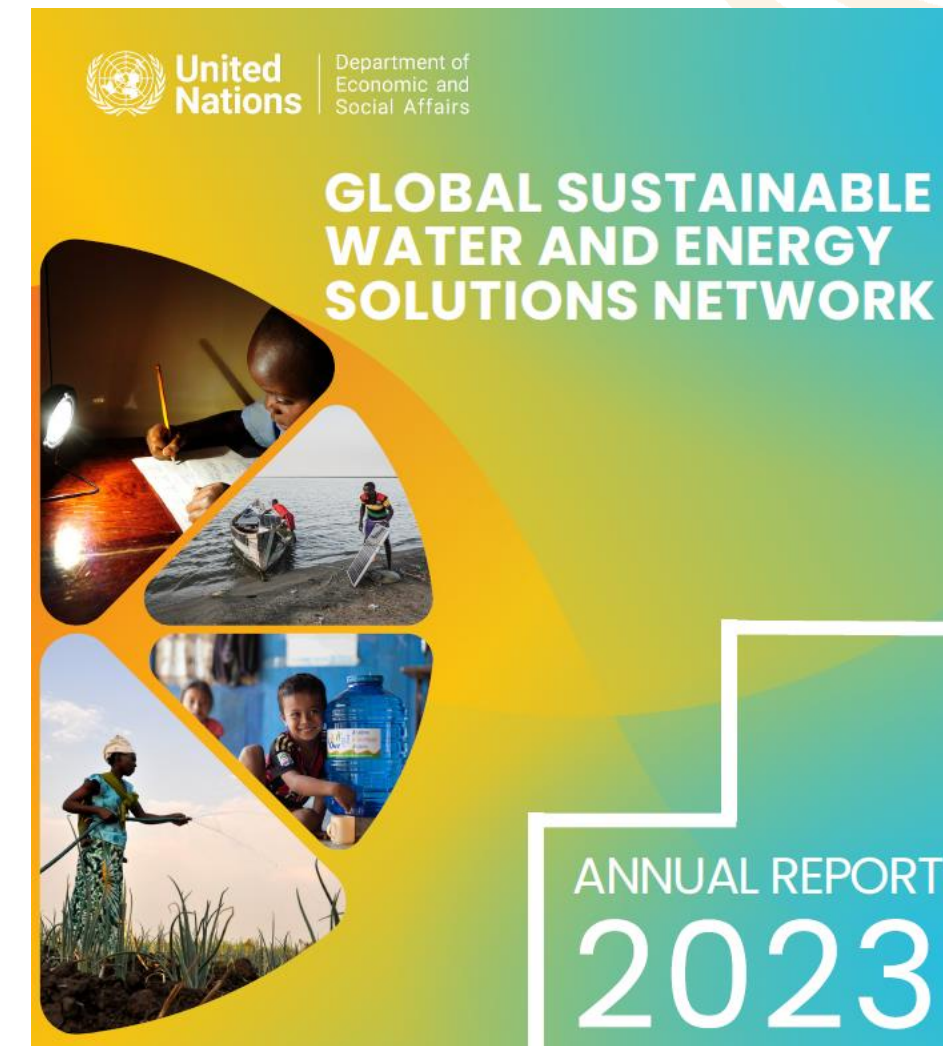
# Introductions

*Division for Sustainable Development Goals (DSDG)  
UN Department of Economic and Social Affairs (UN DESA)*



## Agenda Item #3

# 2023 Annual Report





DEPARTMENT OF  
**ECONOMIC AND  
SOCIAL AFFAIRS**



SUSTAINABLE  
**WATER &  
ENERGY**  
SOLUTIONS  
NETWORK

# **GLOBAL SUSTAINABLE WATER AND ENERGY SOLUTIONS NETWORK**

## **2023 Accomplishments**

**The Secretariat  
@ UNDESA**



# Members



Founding Member



Founding Member



United Nations  
Framework Convention on  
Climate Change



# Key Achievements 2018-2023



SUSTAINABLE  
**WATER &  
ENERGY**  
SOLUTIONS  
NETWORK

**30**  
INSTITUTIONAL  
MEMBERS

**30**  
CAPACITY BUILDING &  
ADVOCACY/OUTREACH EVENTS

**70+**  
COUNTRIES  
REPRESENTED

**1,700+**  
PARTICIPANTS

**138+**  
ANALYSIS AND  
CASE STUDIES

**\$500M**  
TOTAL VOLUNTARY  
COMMITMENTS IN THE  
ENERGY COMPACT BY  
NETWORK MEMBERS

**120 K**  
PEOPLE REACHED  
THROUGH THE  
KNOWLEDGE PLATFORM



# Capacity Building

Capacity Development Workshop on Sustainable Water and Energy Solutions supporting Circular Economies

23-24 February 2023 | Madrid, Spain



Capacity Development Workshop

**SUSTAINABLE WATER AND ENERGY SOLUTIONS SUPPORTING CIRCULAR ECONOMIES**

Madrid, Spain | 23-24 February 2023





# Capacity Building

Side Event – Water and Energy for Sustainable Development: Integrated Solutions supporting Regional Cooperation, Climate Resilience, and Biodiversity

23 March, 2023 | UN 2023 Water Conference, New York





# Advocacy and Outreach

2023 Meeting of the Members of the Global Sustainable Water and Energy Solutions Network

24 February, 2023 | Madrid, Spain





# Advocacy and Outreach

Side Event 2023 HLPF – Integrated Water and Energy Solutions Supporting Sustainable Cities and Human Settlements

14 July, 2023 | New York





# Advocacy and Outreach

Advancing Climate Change Mitigation and Adaptation through Integrated Innovative Sustainable Water and Energy Solutions

4 December, 2023 | COP28, Dubai, UAE





# Knowledge Management and Sharing Best Practices

- Global Knowledge Platform on Sustainable Water and Energy Solutions
- Publications, Presentations and Case Studies

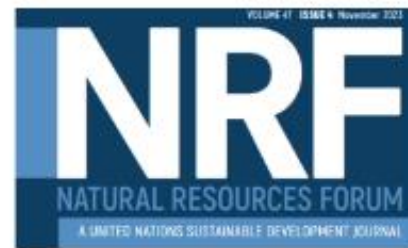
## Publications

### NETWORK PUBLICATIONS



#### 2023 ANNUAL REPORT OF THE GLOBAL SUSTAINABLE WATER AND ENERGY SOLUTIONS NETWORK

The 2023 Annual report of the Global Sustainable Water and Energy Solutions Network details the milestones and key activities from the year, including capacity-building events and advocacy and outreach world meetings in which members had the opportunity to share best practices and innovative approaches surrounding their water-energy nexus activities. It also



#### Special Issue on Sustainable Water and Energy Solutions by Natural Resources Forum (NRF) - a United Nations Sustainable Development Journal, November 2023

In November 2023 the Natural Resources Forum (NRF), a United Nations Sustainable Development Journal, published for the first time a Special Issue on Sustainable Water and Energy Solutions. This Special Issue includes contributions to the global debate on the water-energy nexus, examples of the



#### 17 CASE STUDIES BY ASAZGUA DETAILING ACTIVITIES CONTRIBUTING TO THE 17 SUSTAINABLE DEVELOPMENT GOALS, MARCH 2023

The Association of Sugar Producers of Guatemala published 17 cases studies describing in detail its sustainable strategies and integrated activities addressing each of the Sustainable Development Goals of the UN 2030 Agenda for Sustainable Development. The Guatemala Sugar Agroindustry also generates renewable electricity using sugarcane bagasse and ethanol. The Case Studies provide information about the



Sustainable Water and Energy Solutions Network

- Home
- About
- Knowledge Platform
- Case Studies
- News and Events
- Publications
- Contact

## CASE STUDIES

This compendium of selected case studies exemplifies activities and experiences using integrated systems and approaches to water and energy. The case studies cover different world regions and different integrated technological systems designed and implemented for different purposes and objectives. Some of them represent innovative approaches and systems that still are being demonstrated but have potential for future use. Others provide enhancements and added efficiencies that support more effective management of water and energy resources following an integrated approach. The case studies illustrate how synergies can be realized taking into consideration the strong interdependence that exists between water and energy. Some of these projects and experiences provide opportunities to accelerate global climate change objectives and to tackle the critical issues of access and reliability, especially for the effective planning and response to emergency situations and world crises such as pandemics.



Location: Spain

#### Management of NRW at Canal de Isabel II - A Case Study

Reducing Non-revenue water (NRW) is a complex issue that requires many coordinated actions. Canal de Isabel II has been reducing its NRW by applying an integrated approach that deals with every component of NRW at DMA level, which has led to a reduction of 30% over the last decade. To achieve this goal, a comprehensive set of performance indicators were required in order to determine actions to be taken at DMA level as well as assessing their performance. Such actions provide for a cycle of continuous improvement.

This case study sets out to showcase this set of indicators and how they have been instrumental in bringing about tangible results.

[See Case Study](#)



Location: Spain

#### New Case Study by CANAL: Advance Measurement of Water Consumption, January 2024

Canal De Isabel II produced a case study on how the measurement of water consumption is an essential element for the proper management of the resource. It is especially relevant in countries with water scarcity, but it undoubtedly brings clear benefits in those that do not have drought problems. In supplies that lack measurement of the consumption made by users, one of the best practices to gain efficiency in management is the installation of water meters

[See Case Study](#)



Location: Spain

#### Accelerating the implementation of SDG6 of the 2030 Agenda

[See Case Study](#)

[See Case Study](#)



Location: Spain

#### Accelerating the implementation of SDG7 of the 2030 Agenda

[See Case Study](#)

[See Case Study](#)



Location: Sao Paulo, Brazil

#### Inventory and mapping of water services' needs as a tool to prioritize investments for water systems' development, Canal de Isabel II, 2023

[See Case Study](#)

[See Case Study](#)



#### 17 CASE STUDIES BY ASAZGUA DETAILING ACTIVITIES CONTRIBUTING TO THE 17 SUSTAINABLE DEVELOPMENT GOALS, MARCH 2023

[See All Case Studies](#)

[See All Case Studies](#)



# Knowledge Management and Sharing Best Practices

SPECIAL ISSUE ON SUSTAINABLE WATER AND ENERGY SOLUTIONS BY NATURAL RESOURCES FORUM (NRF) – A UNITED NATIONS SUSTAINABLE DEVELOPMENT JOURNAL

Launch Event and Interviews at COP28





**We thank you  
for your continued support**



**The Secretariat @ UNDESA**



## Agenda Item # 4

# 2024 - 2027 Tentative Workplan (Four- Year Workplan)

*Division for Sustainable Development Goals (DSDG)  
UN Department of Economic and Social Affairs (UN DESA)*







## Global Meetings and World Reports

- Global Symposiums on Sustainable Water and Energy Solutions
  - 2024 Second Global Symposium, Madrid, Spain, 12-14 June
  - 2026 Third Global Symposium in Asia or Africa
- 2024 Workshop Sust Consumption & Production, Antigua, Guatemala, 16-17 October
- Two World Reports on Status and Trends
  - 2024 First Global Report
  - 2027 Second Global report
  - Issues to be addressed:*
    - Status, progress and Trends*
    - Innovative Technological Systems*
    - Policies and Institutional Arrangements*
    - Data and statistics*
    - Analytical tools*







# Four-Year Workplan (2024-2027)

## Capacity Building and Advocacy

- **Capacity Building Workshops (organized by members)**

- At a regional level*

- On topics of interest to the specific region such as decentralized and integrated water-energy systems for vulnerable communities addressing the objective of leaving no one behind

- On specific interlinkage topics*

- Water-energy interlinkages with food security/sustainable agriculture, climate change, biodiversity, etc.

- Other topics:** wastewater to energy, desalination with renewable energy, green hydrogen, bioenergy, green economy, analytical tools, etc.

- **Global Outreach and Advocacy Engagements**

- UN HLPF (2024 in depth reviews SDG 13 & SDG2)

- UN General Assembly (2024 Summit of the Future)

- UNFCCC COPs







# Four-Year Workplan (2024-2027) Capacity Building and Advocacy

## OTHER PUBLICATIONS

- **Peer-reviewed Articles for the UN Sustainable Development Journal – Natural Resource Forum**

Second dedicated issues in 2025 or 2026

Opportunity to publish unique work in relevant areas

To inform research community, decision makers and academia

- **Technical Briefs on innovative technological systems (with support from members)**

Describing water-energy innovative systems such as: desalination using renewable energy, ocean energy, storage hydro, floating PV solar, green hydrogen, etc.

## GLOBAL COMMUNICATION STRATEGY

For implementation during UN Decade of Action

Advanced state-of-the-art audio-visual tools including infographics and other tools for capacity building

Communication material to be published in different languages to reach local, national and regional audiences



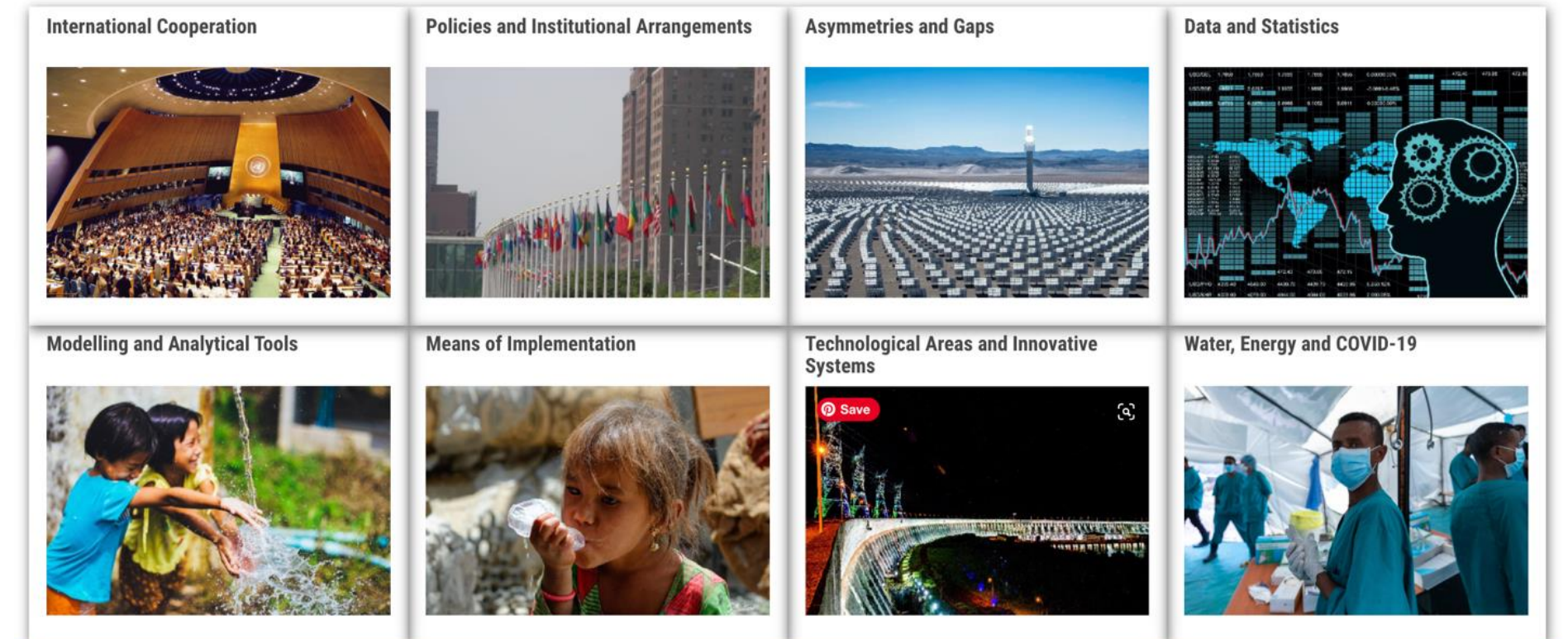




# Four-Year Workplan (2024-2027)

## Global Knowledge Platform

- New Case studies
- Modelling and analytical tools
- Enhanced database of good practices
- Updates of relevant information



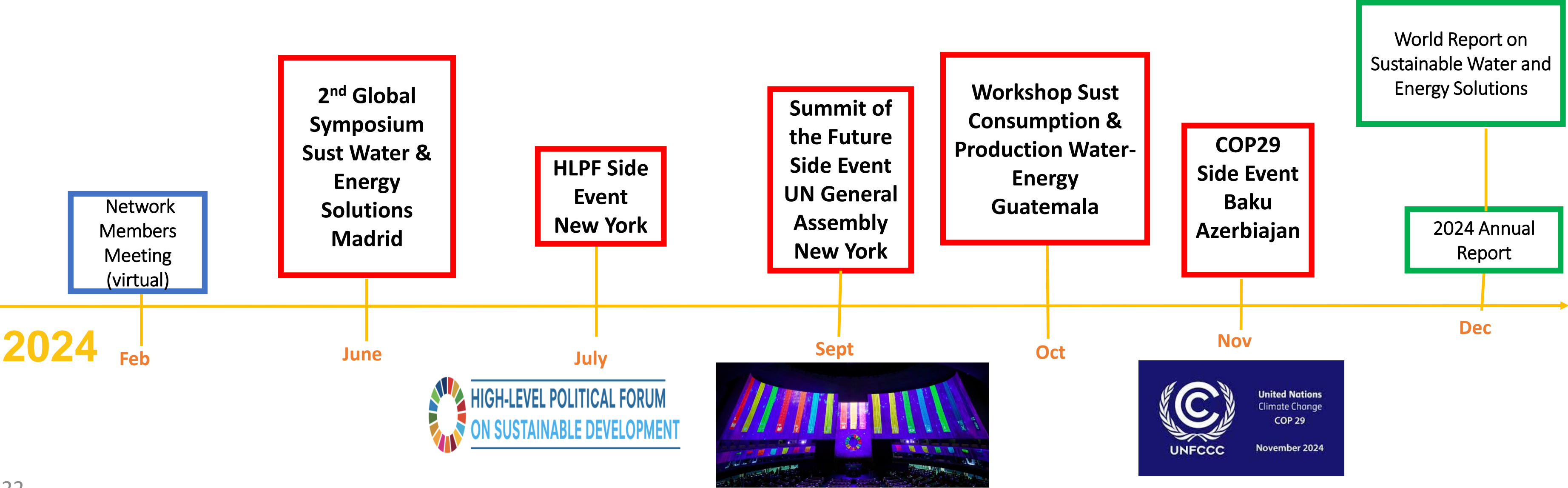
## Partnerships and Voluntary Commitments

- New members
- New multi-stakeholder Partnerships and New Voluntary Commitments supporting the 2030 Agenda for Sustainable Development





# Sustainable Water and Energy Solutions Network 2024 Timeline



2024 Meeting of Members of the  
Global Network on Sustainable Water and Energy Solutions

## Agenda Item #5

# Discussion on Workplan and Support From Members

*Division for Sustainable Development Goals (DSDG)  
UN Department of Economic and Social Affairs (UN DESA)*



# Contributions from Members

- *Members are invited to indicate their future contributions to the Network*

## 1. In-kind support and opportunities

- Participating in 2<sup>nd</sup> Global Symposium in Madrid
- Participating in Global Workshop in Guatemala
- Participating in the network events during annual UN meetings
- Hosting and organizing events such as workshops, seminars, etc.
- Helping to expand the Knowledge Platform and website with **case studies**, data, models, research papers, etc.
- Writing **Technical Briefs** on specific topics
- Developing communication and outreach materials

## 2. Financial Support

## 2024 Meeting of Members of the Global Network on Sustainable Water and Energy Solutions

### Agenda Item #6

## Additional information on major 2024 Events

- *2<sup>nd</sup> Global Symposium, Madrid, Spain*
- *Workshop, Antigua, Guatemala*



# 2024 Meeting of Members of the Global Network on Sustainable Water and Energy Solutions

## Agenda Item #7

# Any Other Business

*Division for Sustainable Development Goals (DSDG)  
UN Department of Economic and Social Affairs (UN DESA)*

# 2024 Meeting of Members of the Global Network on Sustainable Water and Energy Solutions

## Agenda Item #8

Closing

*Thank you!*

*Division for Sustainable Development Goals (DSDG)  
UN Department of Economic and Social Affairs (UN DESA)  
23 February 2023*