



## **Concept Note**

# **Sustainable Water and Energy Solutions supporting Climate Change and Biodiversity Objectives through Innovation and Clean Technologies**

## **Side Event COP27**

**9 November 2022**

**14:45 – 16:00 (Egypt Time)**

**7:45 – 9:00 (New York Time)**

## **BACKGROUND**

Ensuring universal access to sustainable energy, water and sanitation services while reducing related environmental impacts lies at the heart of sustainable development and climate change agendas. The world still faces major challenges in relation to energy and water resources. Today about 733 million people lack access to electricity and about 2.4 billion people depend on unsustainable fuels for cooking. At the same time, energy-related greenhouse gas emissions (GHG) contribute to climate change, accounting for over 75% of total GHG emissions in many economies. The water challenge is characterized by about 2.0 billion people lacking access to safely managed drinking water services and 3.6 billion people lacking safely managed sanitation services. Without access to sustainable energy and safe drinking water and sanitation, people cannot enjoy good health, food security and prosperity. The impacts of climate change are aggravating these challenges.

The Global Sustainable Water and Energy Solutions Network, founded by UN DESA and Itaipu Binacional in 2018, aims towards a world where there is an equitable and sustainable use and management of water and energy resources for all, in support of human prosperity, ecosystem integrity and climate change objectives, under the umbrella of the 2030 Agenda for Sustainable Development. The vision calls for an integrated approach and a new form of coordinated international cooperation on water and energy supporting climate change objectives in the pursuit of sustainable development. The Global Sustainable Water and Energy Solutions Network is playing an important role supporting all the Sustainable Development Goals of the 2030 Agenda, particularly the SDGs on energy (SDG7), water (SDG6) and climate change (SDG13). The Network has become an effective global platform, recognized worldwide, for providing information about effective integrated approaches to water and energy and for promoting the development of innovative sustainable water and energy solutions.

The 2022 UN Conference on Climate Change (COP 27) offers a unique platform to discuss innovative and integrated technological systems for sustainable water and energy solutions supporting climate change and biodiversity objectives.

## **OBJECTIVES**

The main objectives of this event are:

- To exchange and disseminate knowledge and experiences related to innovative technological systems designed to ensure efficient and effective use of water and energy resources.
- To discuss the potential benefits and impacts of these innovative systems on climate change and biodiversity.

## **PARTICIPANTS**

Participants will include global leaders and representatives from public, private, and non-profit sectors, as well as international organizations, civil society and practitioners involved in the research, development, management and implementation of sustainable energy and water solutions that contribute to global climate change and biodiversity objectives.

## **TIME and LOCATION**

This event will be held on 9 November 2022 as a hybrid side event from 14:45 to 16:00 Egypt Time / 7:45 – 09:00 New York Time.