



ACCELERATING **SDG6** AND **SDG7** IMPLEMENTATION

*IN SUPPORT OF THE ACHIEVEMENT OF
THE 2030 AGENDA AND THE PARIS AGREEMENT*

ANNUAL REPORT OF THE GLOBAL SUSTAINABLE WATER AND ENERGY SOLUTIONS NETWORK

2019



SUSTAINABLE
**WATER &
ENERGY**
SOLUTIONS
NETWORK

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INTRODUCTION



SUSTAINABLE
**WATER &
ENERGY**
SOLUTIONS
NETWORK

The Sustainable Water and Energy Solutions Network works toward the vision of a world where there is an equitable and sustainable use and management of water and energy resources for all, in support of human well-being, ecosystem integrity and a robust, inclusive economy, under the umbrella of the 2030 Agenda for Sustainable Development.

The goal of the multi-stakeholder Network is to provide a global platform for all stakeholders to enhance capacities and signal their high-level commitment to the integrated approach to SDG 6 and SDG 7 in support of the SDGs achievement. More specifically, the objectives are to:

- Share best practices, experiences and quality data on the water-energy interlinkages and their contributions to other SDGs.
- Strengthen capacity building with a focus on the planning, designing, implementing and monitoring of policies, regulations, business models and investment to effectively manage the water-energy interlinkages and their implications on other SDGs.
- Mobilise and scale up multi-stakeholder action aimed at stimulating integrated water-energy response addressing cross-sectoral barriers in other development sectors.
- Enhance advocacy, communications and outreach to help countries conduct evidence-based dialogues and facilitate broad-based implementation of SDG 6 and SDG 7.

Stakeholders from all regions are invited to join. This includes UN system organizations and other international organizations, governments and government agencies at national and subnational level, private sector companies, civil society organizations, academia and others. Partners support the activities of the Network on a voluntary basis, and help leverage skills, expertise and other resources that will support and advance its mission.

LEADERSHIP



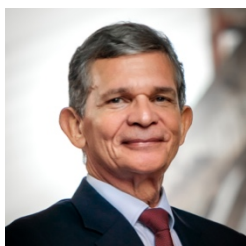
"Energy and water lie at the heart of the 2030 Agenda for Sustainable Development and the Paris Agreement on Climate Change. A transformative approach to energy and water is essential not only to SDG6 on water and SDG7 on energy; most importantly, such an approach can make all our Sustainable Development Goals possible."

*Liu Zhenmin
Under-Secretary-General, UN DESA*



"The synergies between water and energy are essential for Itaipu. In the past 40 years, we accumulated many positive experiences in water care that ensure energy production in the long term and that are also beneficial to nearby communities and wildlife, in line with the UN's Sustainable Development Goals."

*Ernst Ferdinand Bergen Schmidt
Itaipu's Paraguayan General Director*



"Itaipu is a successful example of two nations that overcame their differences to promote sustainable prosperity for their peoples, as established by the UN's higher goals. That's why we are very enthusiastic about sharing our experience in the context of this partnership with UNDESA and the Sustainable Water and Energy Solutions Network."

*Joaquim Silva e Luna
Itaipu's Brazilian General Director*

WATER & ENERGY IN THE 2030 AGENDA

The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future.



Ensure availability and sustainable management of water and sanitation for all

- By 2030, achieve universal and equitable access to safe and affordable drinking water for all
- By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations
- By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally
- By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity
- By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate
- By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes
- By 2030, expand international cooperation and capacity-building support to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies
- Support and strengthen the participation of local communities in improving water and sanitation management



Ensure access to affordable, reliable, sustainable and modern energy for all

- By 2030, ensure universal access to affordable, reliable and modern energy services
- By 2030, increase substantially the share of renewable energy in the global energy mix
- By 2030, double the global rate of improvement in energy efficiency
- By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology
- By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programmes of support

ADDRESSING CLIMATE CHANGE

Climate change is the defining issue of our time – and we are at a defining moment.

In December 2015, the 21st Session of the Conference of the Parties (COP21/CMP1) convened in Paris, France, and adopted the **Paris Agreement**, a universal agreement which aims to keep a global temperature rise for this century well below 2 degrees Celsius, with the goal of driving efforts to limit the temperature rise to 1.5 degrees Celsius above pre-industrial levels.

In the 2030 Agenda for Sustainable Development, Member States express their commitment to protect the planet from degradation and take urgent action on climate change. Specifically, the Agenda included **Sustainable Development Goal 13** on climate action, which aims to “take urgent action to combat climate change and its impact”.

MEMBERS OF THE GLOBAL SUSTAINABLE WATER AND ENERGY SOLUTIONS NETWORK



UN DESA
Founding member



ITaipu Binacional
Founding member



**National Water Agency
Brazil**



**Ministry for the Ecological
Transition and the
Demographic challenge, Spain**



**Ministry of Foreign
Affairs Tajikistan**



Asazgua



**International
Hydropower Association**



IIASA



IRENA



SINTEF



**TERI School of Advanced
Studies**



World Energy Council



UNECE



UNESCWA



UNFCCC



UN-Habitat



2019

**MILESTONES &
KEY ACTIVITIES**

CAPACITY BUILDING



Expert Group Meeting on “Enhancing capacity building addressing water and energy interlinkages for sustainable development in the Arab region”

Co-organized by the United Nations Economic and Social Commission for Western Asia (ESCWA) and the United Nations Department of Economic and Social Affairs (UN DESA), in Beirut, Lebanon, 25-26 June 2019, the main objective of this meeting was to strengthen the capacity of ESCWA member countries and other relevant stakeholders to enhance their ability to achieve an integrated and sustainable management of water and energy resources, thereby contributing to the 2030 Agenda for Sustainable Development.

The meeting illustrated the benefits of a nexus approach while the discussions covered policy, implementation and positive experiences stemming from the use of such an approach, the role that a nexus paradigm can play in furthering progress toward the Sustainable Development Goals including clean energy and water and sanitation services, gender equality, the reduction of poverty and hunger, economic growth, and good health.

The meeting concluded with recommendations for both member countries and for ESCWA that addressed institutional mechanisms to facilitate integrated approaches focused on water and energy interlinkages, national and regional collaboration on data collection and sharing, capacity-building for advancing an integrated paradigm, and the transfer of technologies and know-how.



CAPACITY BUILDING



Side event "Scaling up climate action through integrated water and energy solutions: Delivering on the Paris Agreement and the SDGs"

UN DESA and Itaipu Binacional, with support from the Government of Spain and ASAZGUA, in collaboration with "Sustainable Water and Energy Solutions" Network members, co-organised a side event on "Scaling up climate action through integrated water and energy solutions: Delivering on the Paris Agreement and the SDGs". The event took place on 15 July 2019 at the Cervantes Institute in New York. Underscoring that "6+7=13", panelists highlighted the importance of SDG6 and SDG7 for climate action (SDG13), and called for strengthened global efforts in identifying policies, technologies and practices capable of addressing these issues in an integrated manner. The panelists included representatives from Spain, the Netherlands, USDOE, ITAIPU Binacional, the International Hydropower Association, the Climate Change Research Institute of Guatemala and UNICEF.

KNOWLEDGE MANAGEMENT & BEST PRACTICE SHARING



1

NO POVERTY

END POVERTY IN ALL ITS FORMS EVERYWHERE

CASE STUDY: ITAIPU AND SDG 1
Articles by Itaipu Binacional supporting implementation of the Sustainable Development Goal 1 (SDG 1) of the United Nations 2030 Agenda for Sustainable Development

2

END HUNGER

END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

CASE STUDY: ITAIPU AND SDG 2
Articles by Itaipu Binacional supporting implementation of the Sustainable Development Goal 2 (SDG 2) of the United Nations 2030 Agenda for Sustainable Development

3

ENSURE HEALTHY LIVES

ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

CASE STUDY: ITAIPU AND SDG 3
Articles by Itaipu Binacional supporting implementation of the Sustainable Development Goal 3 (SDG 3) of the United Nations 2030 Agenda for Sustainable Development

4

ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION

ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

CASE STUDY: ITAIPU AND SDG 4
Articles by Itaipu Binacional supporting implementation of the Sustainable Development Goal 4 (SDG 4) of the United Nations 2030 Agenda for Sustainable Development

5

ACHIEVE GENDER EQUALITY

ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

CASE STUDY: ITAIPU AND SDG 5
Articles by Itaipu Binacional supporting implementation of the Sustainable Development Goal 5 (SDG 5) of the United Nations 2030 Agenda for Sustainable Development

17 CASE STUDIES ON THE SDG INTERLINKAGES

Case studies on integrated strategies supporting the implementation of the Sustainable Development Goals

Since its outset, the Global Sustainable Water and Energy Solutions Network has been searching for worldwide examples of effective actions and integrated strategies supporting the implementation of the Sustainable Development Goals and the 2030 Agenda for Sustainable Development.

These 17 case studies illustrate how Itaipu Binacional, with specific actions, projects and programmes, is effectively moving forward the global Sustainable Development Goals not only in Brazil and Paraguay but in the region and in South America. Itaipu, established jointly by Paraguay and Brazil, is today a global model of success for regional integration which follows a comprehensive and integrated approach to sustainable development.

KNOWLEDGE MANAGEMENT & BEST PRACTICE SHARING



Technical inputs to the High-Level Political Forum

We call upon all stakeholders to drive change by forming transformational partnerships toward the Climate Action Summit and the SDG Summit. Multistakeholder initiatives, including those presented in the Action Briefs, play a central role in raising collective ambition and accelerating realisation of the SDGs, and the goals of the Paris Agreement, to achieve a better, more prosperous life for all people on a healthy planet.

Key messages

“Accelerating SDG7 Achievement: SDG 7 Policy Briefs in support of the High-Level Political Forum 2019”

The Global Sustainable Water and Energy Solutions Network contributed to the development of one of the action briefs included in the UNDESA SDG 7 Policy Briefs in Support of the 2019 High-Level Political Forum.



ADVOCACY & OUTREACH



Side event on "How the private sector can contribute to achieving the Paris Agreement and the 2030 Agenda" (UN City, Copenhagen)

On 1 April 2019, a side event at the Global Conference on Strengthening Synergies between the Paris Agreement and the 2030 Agenda for Sustainable Development, entitled “How the private sector can contribute to achieving the Paris Agreement and the 2030 Agenda” was organized. Moderated by Ms. Leena Srivastava, Vice Chancellor of TERI University, the event showcased best practices undertaken by private sector representatives to support the achievement of the climate and SDGs agendas, analyzed challenges and opportunities, and suggested possible strategies for further engagement with private sector. Participants underscored energy and water as key factors to achieve the interconnected agendas of sustainable development and climate change, and highlighted the essential contributions from private sector in providing innovation, technologies and business models for achieving these agendas. The importance of multi-stakeholder partnerships integrating different SDGs as well as climate goals was emphasized. The event included representatives from UN DESA, Itaipu Binacional, UNFCCC, Iberdrola, Danfoss and UN Global Compact.

ADVOCACY & OUTREACH



Inaugural Meeting of the Global Sustainable Water and Energy Solutions Network

On 13 May 2019 the inaugural meeting of the Global Sustainable Water and Energy Solutions Network, took place in Paris, France. The meeting jointly organised by UN DESA, the International Hydropower Association and Itaipu Binacional provided an opportunity to welcome the 16 network members and discuss the upcoming workplan. Members agreed that network activities in 2019 would focus on the development of case studies documenting concrete examples of integrated sustainable water and energy solutions, the preparations for an online knowledge hub, capacity building activities, outreach and advocacy engagements and an annual report including the network's key activities.



Sustainable water and energy solutions as integrated response to climate change

On 14 May 2019 the consultative meeting on “Sustainable water and energy solutions as integrated response to climate change” took place in Paris, France. The event was jointly organised by UN DESA, the International Hydropower Association and Itaipu Binacional as part of a series of side events taking place during the World Hydropower Congress. The consultative meeting brought together heads of governmental, business and civil society delegations for a dialogue on sustainable energy and water solutions.

ADVOCACY & OUTREACH



Third Steering Committee Meeting

On 15 July 2019, the Steering Committee (SC) of the of the "Sustainable Water and Energy Solutions" partnership, co- chaired by Mr. Alexander Trepelkov, Officer-in-Charge, Division for Sustainable Development Goals, DESA, and the two Director Generals of Itaipu Binacional, Mr. José Alberto Alderete and Mr. Joaquim Silva e Luna, met for the third time to review progress of the partnership to-date, discuss the implementation of the workplan for the remainder of 2019, and present and gather ideas for the workplan for 2020.

Side event "Scaling up climate action through integrated water and energy solutions: Delivering on the Paris Agreement and the SDGs"



High-level Event on Water and Energy Interlinkages for Climate Action and Sustainable Development

One year after the official launch of the Global Sustainable Water and Energy Solutions Network, UN DESA and Itaipu Binacional, with support from other network members and partners, co-hosted a side event at the SDG Pavilion at COP25 in Madrid, Spain, to share progress and on-the-ground experiences in addressing water and energy interlinkages in support of the 2030 Agenda and the Paris Agreement. At the event, high-level representatives of UN DESA, Itaipu Binacional, ESCWA, the Government of Spain and the International Hydropower Association shared concrete experiences on integrated water and energy solutions to address climate change, and highlighted the relevance of multi-stakeholder partnerships to facilitate knowledge sharing and capacity building. The event featured the launch of a report on 17 case studies on integrated strategies supporting the implementation of the Sustainable Development Goals, developed by Itaipu Binacional in the context of this cooperation.

MOVING FORWARD: 2020 AND BEYOND



“The interlinkages and integrated nature of the Sustainable Development Goals are of crucial importance in ensuring that the purpose of the new Agenda is realised. If we realize our ambitions across the full extent of the Agenda, the lives of all will be profoundly improved and our world will be transformed for the better.”

— 2030 Agenda for Sustainable Development



MOVING FORWARD: NETWORK FOCUS IN 2020



TECHNICAL REPORTS

- Report “Activities by Itaipu Binacional supporting the Sustainable Development Goals and the 2030 Agenda for Sustainable Development”
- Global Report on Sustainable Energy and Water Solutions addressing climate change
- Global Knowledge Platform on Sustainable Water and Energy Solutions - Scoping Paper



BEST PRACTICE SHARING

- Launch of Network’s knowledge website, including database of Global Sustainable Energy and Water Solutions



GLOBAL ADVOCACY

- Preparation of First Global Conference on Sustainable Water and Energy Solutions (to be held in 2021 at Itaipu Binacional Headquarters)



CAPACITY BUILDING SEMINARS

- A series of capacity building seminars will be organized to enhance knowledge sharing

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