ITAIPU Binational Nexus Strategy: Water, Energy, Ecosystems and Food

Task Force on the Water-Food-Energy-Ecosystems Nexus
UNECE virtual event
October 22, 2020
ITAIPU Binational

Mission

Generate quality electricity with social and environmental responsibility, driving sustainable economic, tourism and technological development in Brazil and Paraguay.

Fundamental Guidelines

- Respect for the Human Being
- Ethics and Integrity
- Proactivity and Innovation
- Accountability and Reporting
- Recognition of People's Work Results
- Corporate Sustainability
- Binational Integration
- Regional Sustainable Development

- ESG approach: Sustainable Energy production, integrated natural resources management and territorial sustainable development in Brazil and Paraguay as final macro-processes;
The Water Interlinkages

- **Ecosystem Services**
  - 101,000 hectares of protected areas
  - More than 1300 km of fences to protect riparian forest

- **Water Security**
  - 14 water cisterns in public areas and rural properties to reuse water for non-potable purposes
  - 198 installation of community water supply for proper handling of chemical pesticides, avoiding pollution of water resources
  - 76 stations for monitoring water and sedimentation
  - Support to 52 municipalities to elaborate environmental sanitation plans

- **Sustainable Regional Development**
  - 55 headwaters: recovery and protection
  - 187 rural properties with access to the water from the reservoir for irrigation and water supply for animals
  - 50 communities benefited with access to water and sanitation
  - More than 1000 km of adequacy of rural roads

- **Annual fixation of CO2 by forest biomass**: 5.9 million tons
The Energy Interlinkages
SDG 13 - Effectiveness and innovative aspects of our investments:

- A territorial approach for sustainable development – investing for term company sustainability and life span

- ITAIPU has a strong binational commitment to the DSGs Targets;

- Partnership is crucial to our success: governments, NGO`s, and;

- Co-financing as an important commitment mechanism;
SDG 13 - Effectiveness and innovative arrangements of our investments:

- **Long term investment** in Brazil and Paraguay – strong community participation and cooperation

**Results**

- About 101,000 hectares of forests surround the Reservoir, **enhancing resilience** to climate change on the largest hydropower sector reforestation effort in Brazil and Paraguay;

- The **fixation of CO2** in the biomass of ITAIPU's Protected buffer zone and reserves is approximately **23 times higher than the its emissions** related to the three scopes of the GHG Protocol;
How to measure Territorial Sustainability Success?

International Standard for Sustainable Territorial Management

Territorial Management
Ecosystem approach

- Resilience to Climate change
- Environmental Economy
- Landscape Management
- Sustainable agriculture
- Biodiversity Conservation
- Food safety
- Risk management
- Smart and sustainable cities
- Cultural heritage
- Traditional Communities
- Watersheds
- Industry and production
- Infrastructure

Working groups and Thematic Axes:

Standard based on internationally recognized principles, criteria and indicators.
Thank you

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