

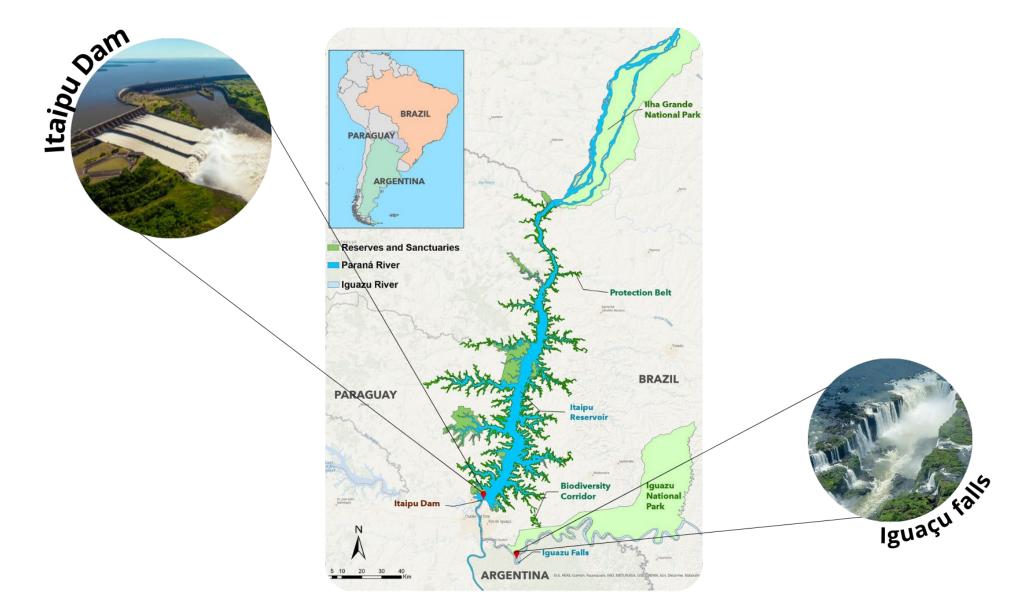
ITAIPU Binacional

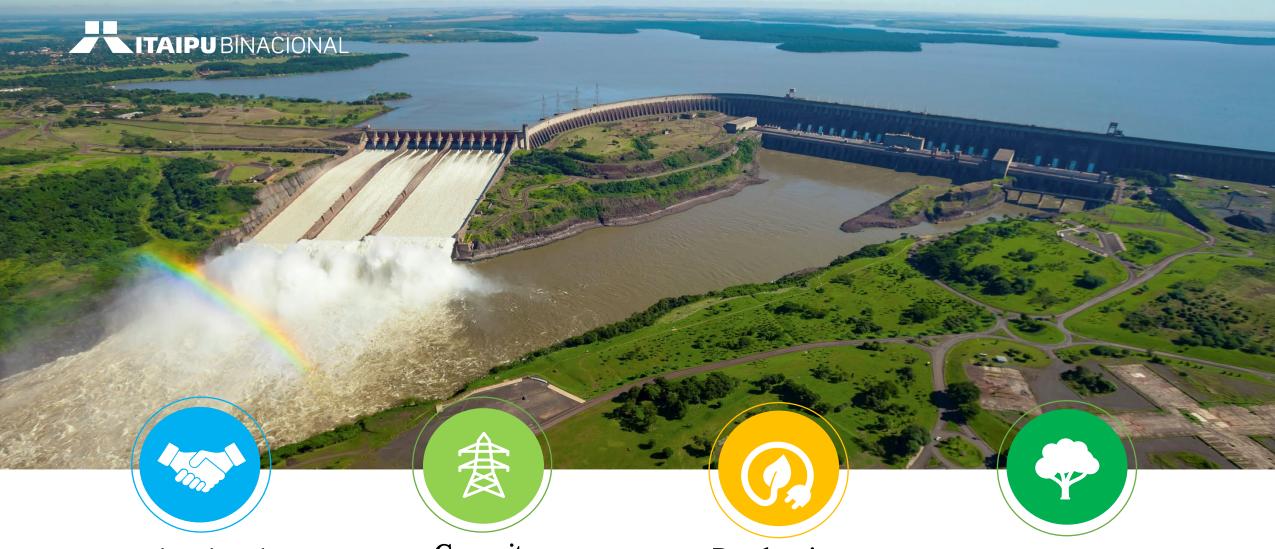
Water, Energy, Food and Ecosystem Nexus











Binacional

Provides 10% of the energy consumed in Brazil and 90% in Paraguay

Capacity

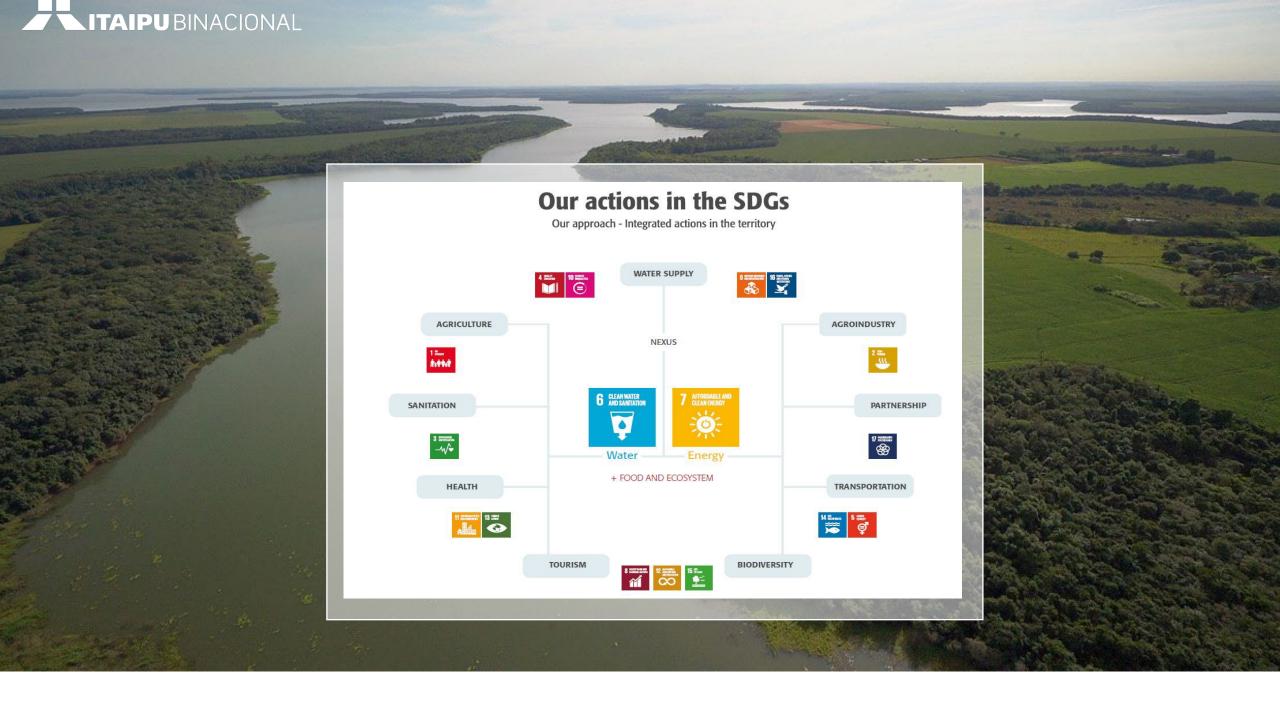
14,000 MW of installed capacity

Production

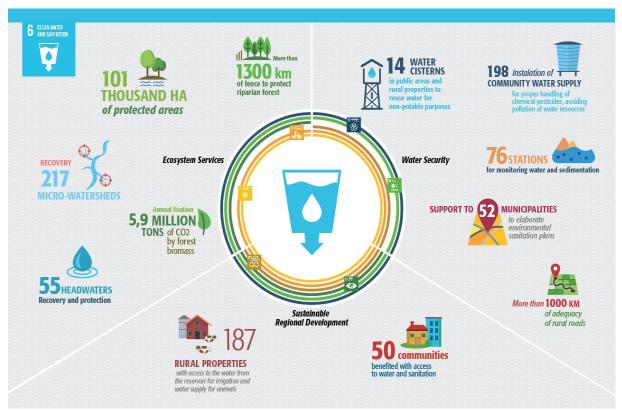
World leader in clean and renewable energy generation

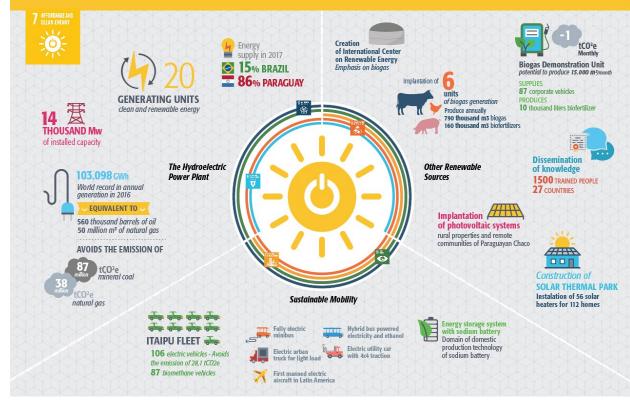
Strategic axes

Water security, sustainable territorial development and power generation



The Water and Energy Interlinkages





Effectiveness and innovative aspects of ou investments:

- A territorial approach for sustainable development investing for long term company sustainability and life span
- ITAIPU has a binational commitment to the DSGs Targets;
- Partnership is crucial to our success: governments, NGO's, and;
- Co-financing as an important commitment mechanism;











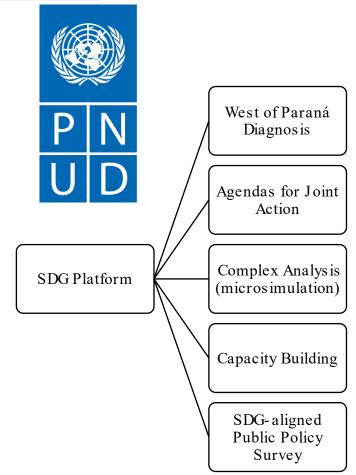


Territorialization of the SDGs in the West Paraná State

First project to develop SDG city indicators in Brazil

Regional indicators with the level of development of municipalities in relation to each SDG for action planning, development of public policies and direction of investments.





ITAIPU and UNDESA Partntership



























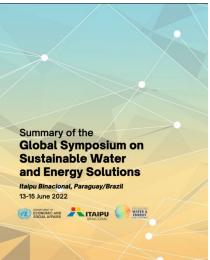














Session 2: Sustainable Water and Energy Solutions & Energy Case Studies

Session 3: Sustainable Water and Energy Solutions & Water Case Studies

Session 4: Sustainable Water and Energy Solutions Environmental Interconnections Climate Change

Session 5: Sustainable Water and Energy Solutions – Water and Energy Transboundary Cooperation and Environmental Interlinkages

Session 6: Sustainable Water and Energy Solutions – Social Interlinkages

Session 7: Sustainable Water and Energy Solutions – Economic Interlinkages

Effectiveness and innovative arrangements of our Nexus 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;

Effectiveness and innovative arrangements of our Nexus investments:





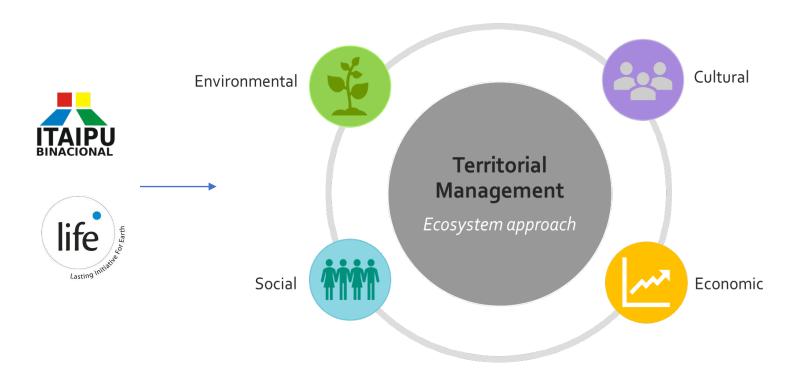
- Biodiversity Programs in Paraguay and Brazil works on the conservation from plants and pollinators to large predators, has an important genetic bank of 36 endangered species from Atlantic Forest;
- Reduction of greenhouse gas emissions. The targets include a reduction in the consumption of fossil fuel in ITAIPU's own fleet of vehicles and of electricity consumption of 1.5%;
- Sustainable Fleet composed of 106 electric vehicles and 86 biomethane vehicles;
- More than 270 projects with local partners in all the SDGs and ESG fronts.





How to measure Territorial Sustainability Success?

International Standard for Sustainable Territorial Management



Working groups and Thematic Axes:

- > 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









