







High Level Political Forum

Side event on Sustainable Water and Energy Solutions Addressing Climate Change During the Decade of Action

"Activities by Itaipu Binacional supporting the implementation of the Sustainable Development Goal 13"







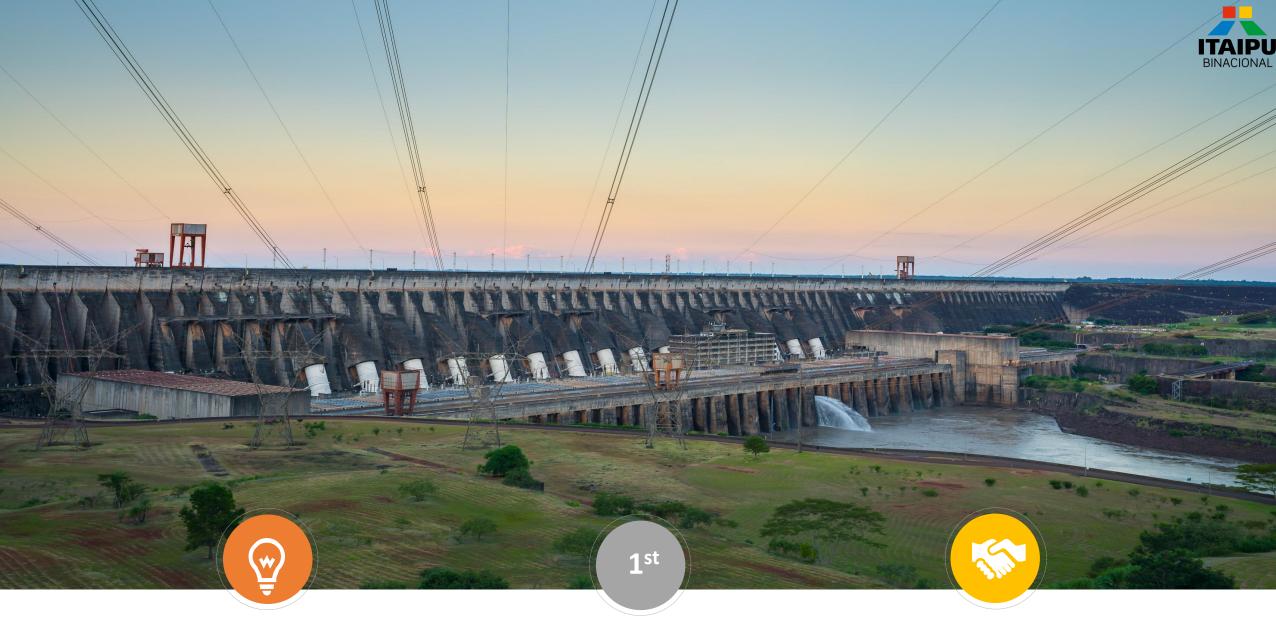
Paraguay

Brazil

Mission

To generate quality electrical energy, with social and environmental responsibility, contributing to sustainable development, in Paraguay and Brazil.





2.8 billion megawattshours generated since 1984 Largest generator of renewablee energy in the word

Committed to
Sustainable Development
Goals

Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters

Integrate climate change into national policies, strategies and planning







550,000 barrels of oil daily **50** million m³ of natural gas

AVOIDS THE EMISSION OF

tC02e Mineral carbon

tC02e natural gas



Sustainable Development Strategy and Environmental Management Master Plan



Member of National Climate Change Comision of Paraguay









Improve education, awarenessraising and human and institutional capacity



Courses on Renewable Energy, Water Management and Climate Change







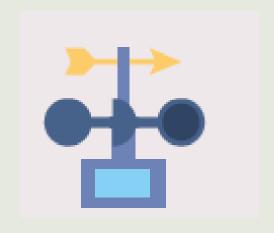








Quantification of greenhouse gases



Monitoring and analyzing climate variability and trends



Promotion of Renewable Energy



Restoration of forest ecosystem



Creation of Tree Nurseries

1979



1.3 million trees planted

1981

1986



+5 MI trees planted

1991



Connectivity vision 2002





2021

1960-1970



Expansion of agricultural frontier

1976

Itaipu begins Reforestation program



Agroforestry system with farmers

12 MI trees planted



+5 MI trees planted with municipalities



2014



2,195 hectare







Quantification of greenhouse gases



GHG emissions inventory



Secuestration of CO2 outweigh the emissions by around 23 times

Evaluation of variables related to major scopes of the GHG

Emission and fixation process are measure

















Improvements to reduce consumption of nonrenewable resources and promote further use of renewable energy





Monitoring and analyzing climate variability and

trends





Weather and hydrological data collection







Promotion of Renewable Energy

- Implementation of solar thermal projects
- Installation of solar-wind hybrid systems
- Promotion of electric transportation
- International Center for Renewable Energy with emphasis on biogas
- Training courses on renewable energy



Thank you Obrigada Gracias

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