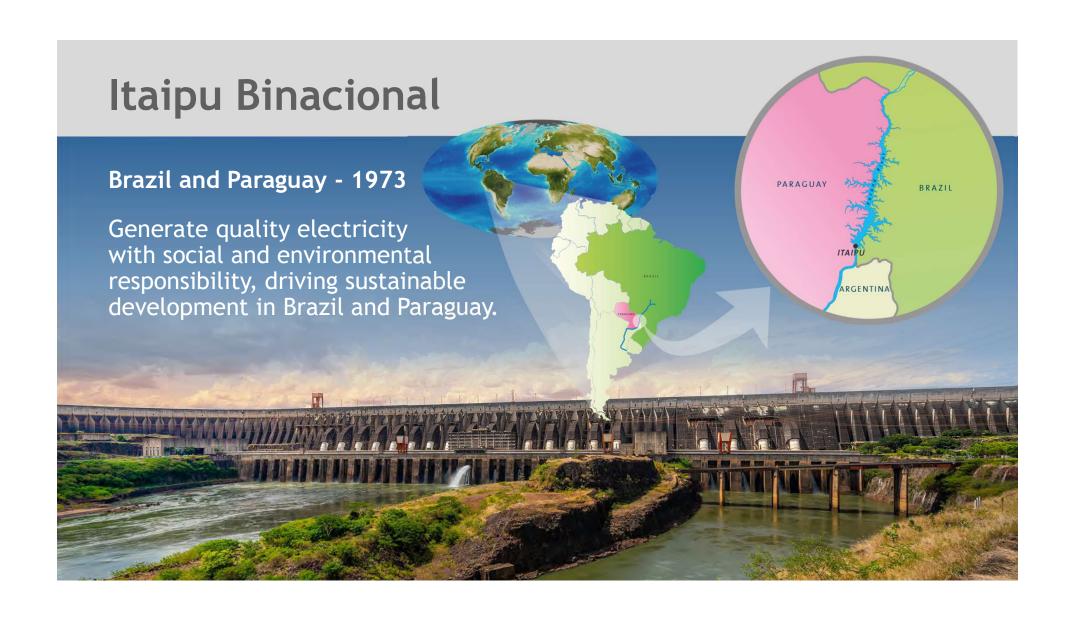
#### COP 26 — Side Event

# Sustainable Water and Energy Solutions supporting Climate Change Objectives during the Decade of Action and Beyond





#### Socioeconomic and climate contribution



- Supply of energy demand:
   Brazil 10% Paraguay 88%
- Accumulated generation: 2,8 bi MWh
- Replaces the equivalent of 550 thousand barrels of oil daily





- Avoids the emission of 87 million t
   CO2 if emitted by coal
- Fixation of CO2 in forest is almost
   30X higher than its emissions

# Climate Change Resilience Strategies



GRAY - Structural Resilience

Strategic maintenance management of turbines

Productivity: 1 MW/M3/sec

97% availability



Recovery and maintenance of a natural protection belt increases water quality and decreases storm runoff sedimentation

24 million trees planted in the protection belt Increase of accessibility for multiple uses

of water

#### Climate Change Mitigation and Adaptation Strategies





Modernization, accessibility and investments:

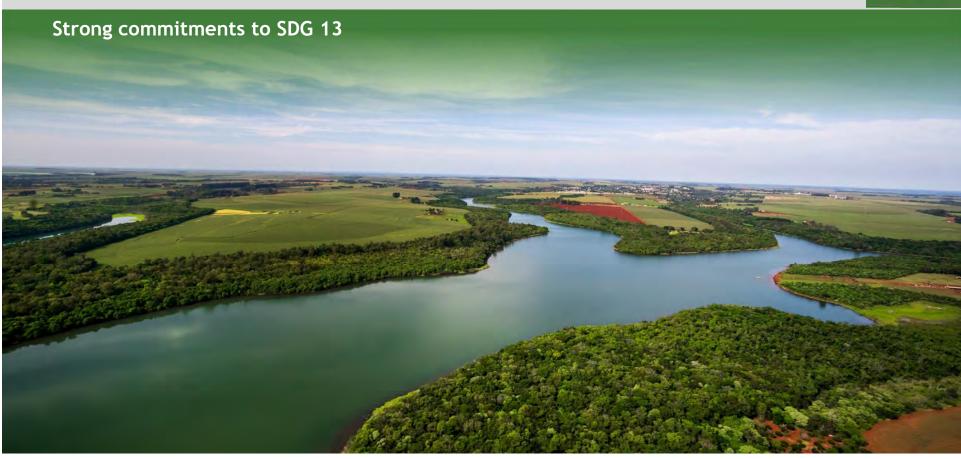
- Technological update US\$ 500mil
- biomethane plants investments

Forest restauration and climate change adaptation.

75 thousand ha of Atlantic
Forest = contribution to 28%
of the total restauration of
the Atlantic Forest in the
State of Parana.

Dissemination of ecosystem services.



















Regional development, water and climate security through territorial environmental management to restore regional biodiversity and lost capacity of ecosystem services supplies.



### **THANK YOU**

