

## **A delicate balance in South America**

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### **Abstract-**

**This article deals with the challenges of balancing the need for hydroelectricity with the impact on the environment. Economic efficiency, energy security, and environmental sustainability are concerns that must be considered in any energy policy in any given country. These key aspects remain challenged currently in South America. High energy consumption growth worldwide rising fossil fuels prices, strong environmentalist pressure toward reducing greenhouse gas effects, and promotion of renewable energy production have been a common challenge in South American energy markets. The development of vast unexploited hydroelectric resources is also at the center of attention, where its renewable character is being confronted with its environmental impact.**

**Index Terms-** Energy policy; Energy resources; Environmental impact; Environmental protection; Fossil fuel power plants; Fossil fuels; Gas fuels; Global warming; Greenhouse gases; Hydroelectric power; Stochastic models

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