



WFER IX

When Balance Is Achieved

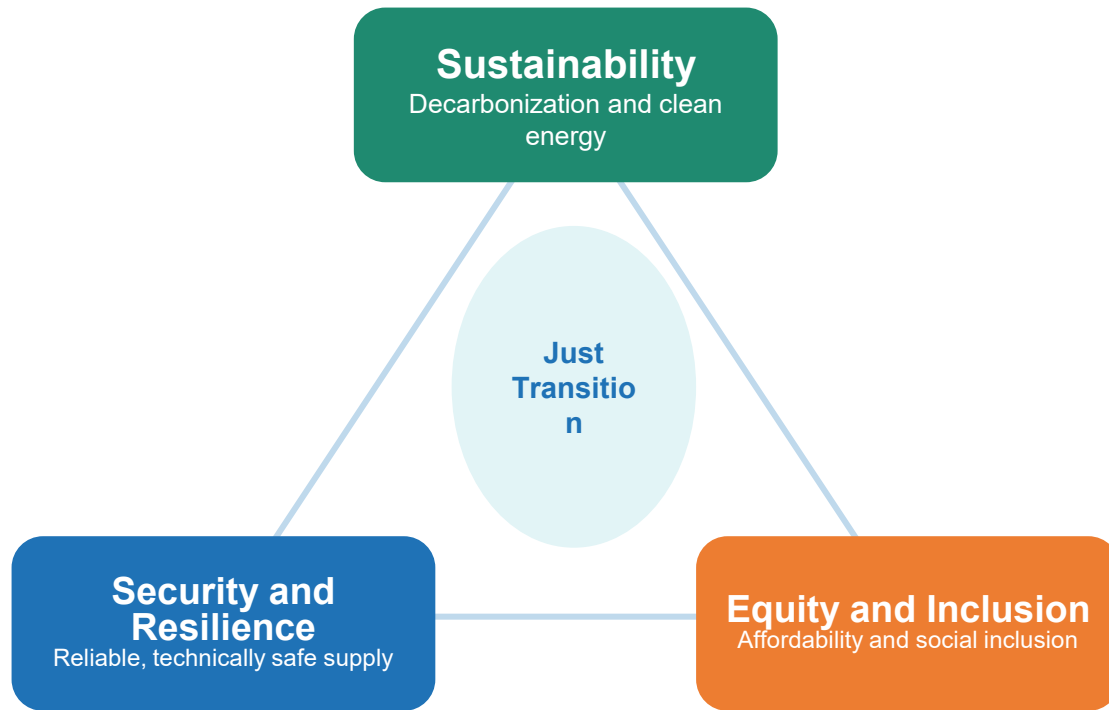


IX WORLD FORUM
ON
ENERGY REGULATION
Tbilisi, Georgia, 21-24 September, 2026

Aurelio Melo | ANEEL, Brazil

Just Transition: Ensuring Equity and Inclusions in Energy Reform

The Energy Transition Trilemma



Challenges



Physical Access & Quality

- 92 million consumer units - 99.8%
- Focus: the remaining 0.2% and substandard service



Economic Access

- Average tariff (2026): \$ 162.92/MWh
- Social Tariff: 17 million benef. units
- CDE funding: \$ 164.98 million (2026)



Tariff Modernization

- Government: subsidy policy and funding source
- Regulator: technical tariff at cost of service
- Tariffs tailored to use/consumption class

Equity and Inclusion



Technical, socioeconomic, environmental and institutional barriers hinder service to what is commonly called “the last mile”



Long distances and river-dependent transport



Protected territories and traditional communities



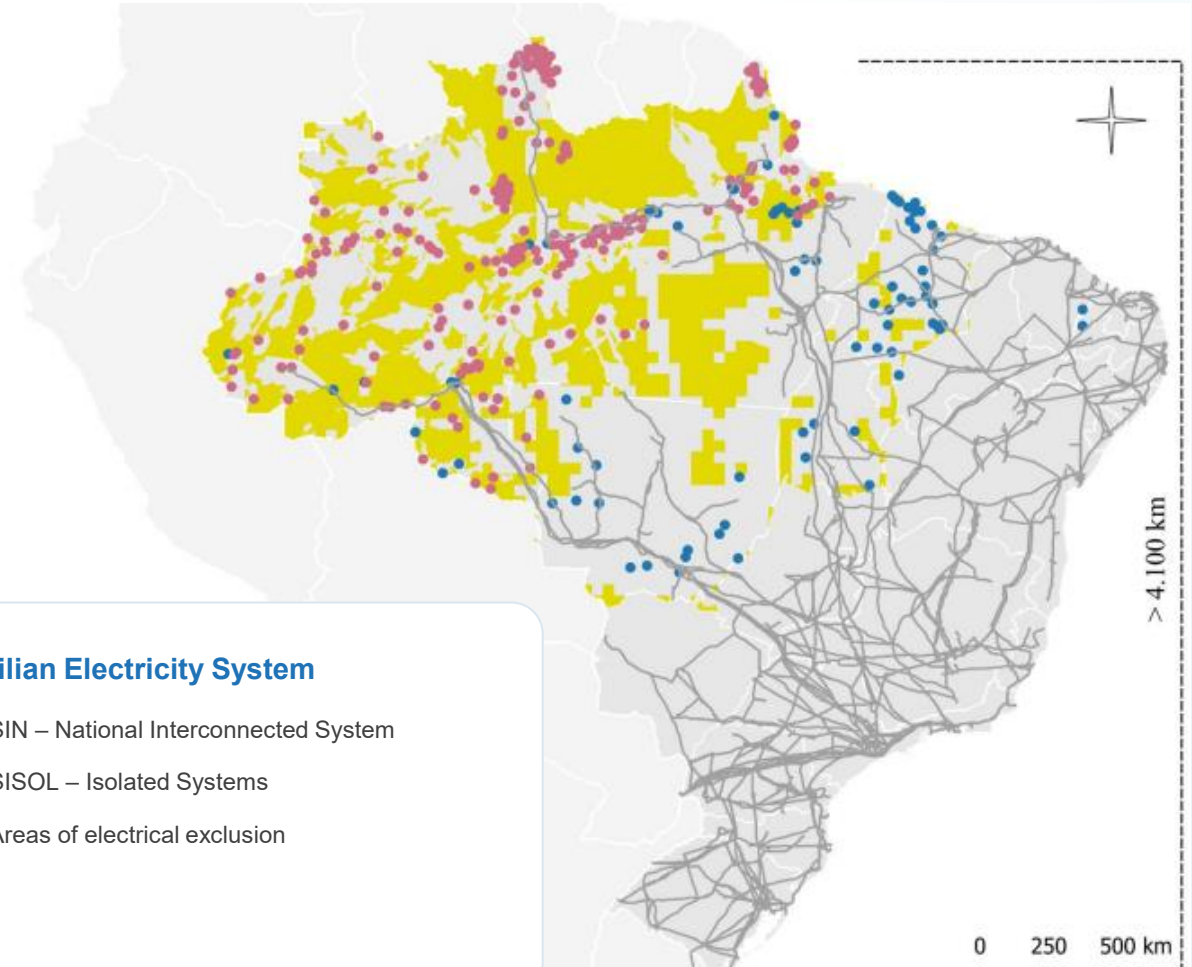
Highest tariffs, lowest HDI regions



Policies designed without local participation

Brazilian Electricity System

- SIN – National Interconnected System
- SISOL – Isolated Systems
- Areas of electrical exclusion



Regulating for an Inclusive Energy Future

- Decarbonization is essential – but not sufficient
- A transition grounded in people, evidence, and regulatory cooperation



Environmentally
Sustainable



Technically
Secure



Economically
Affordable



Socially
Inclusive

Energy as opportunity, dignity, and development for all

Regulatory Tariff Sandbox

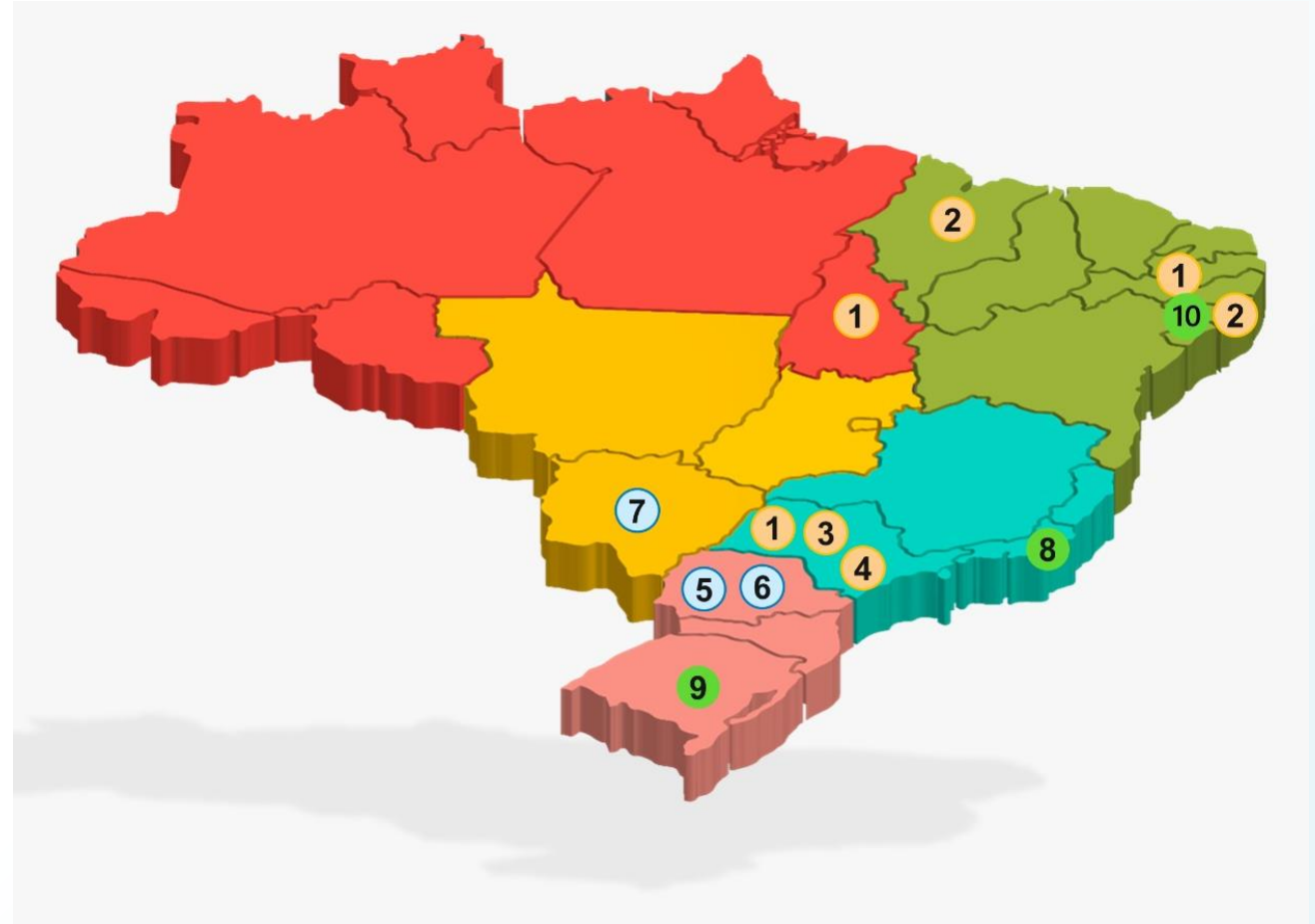


60,000 consumers participating

\$24 million dollars

Pilot programs currently testing:

- Time-of-use (hourly) tariffs (5 pilots);
- Demand-based charges;
- Pre-payment schemes;
- Flat-rate payment models;
- Market liberalization (Retail opening);
- Tariffs for Distributed Energy Resources (DERs);



Regulatory Sandbox: Energies of the Forest



Addressing energy exclusion in the Legal Amazon through a Regulatory Sandbox to test sustainable and culturally appropriate solutions.



PROJETO
**ENERGIAS
DA FLORESTA**



“Leave No One Behind”
UN 2030 Agenda

The challenge is not only to bring energy to isolated communities: to learn, measure, and share what works.
Full access: health, education, connectivity, income generation and socio-bioeconomics.
The Amazon: a frontier for regulatory innovation, and not merely as the final frontier of electrification.



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