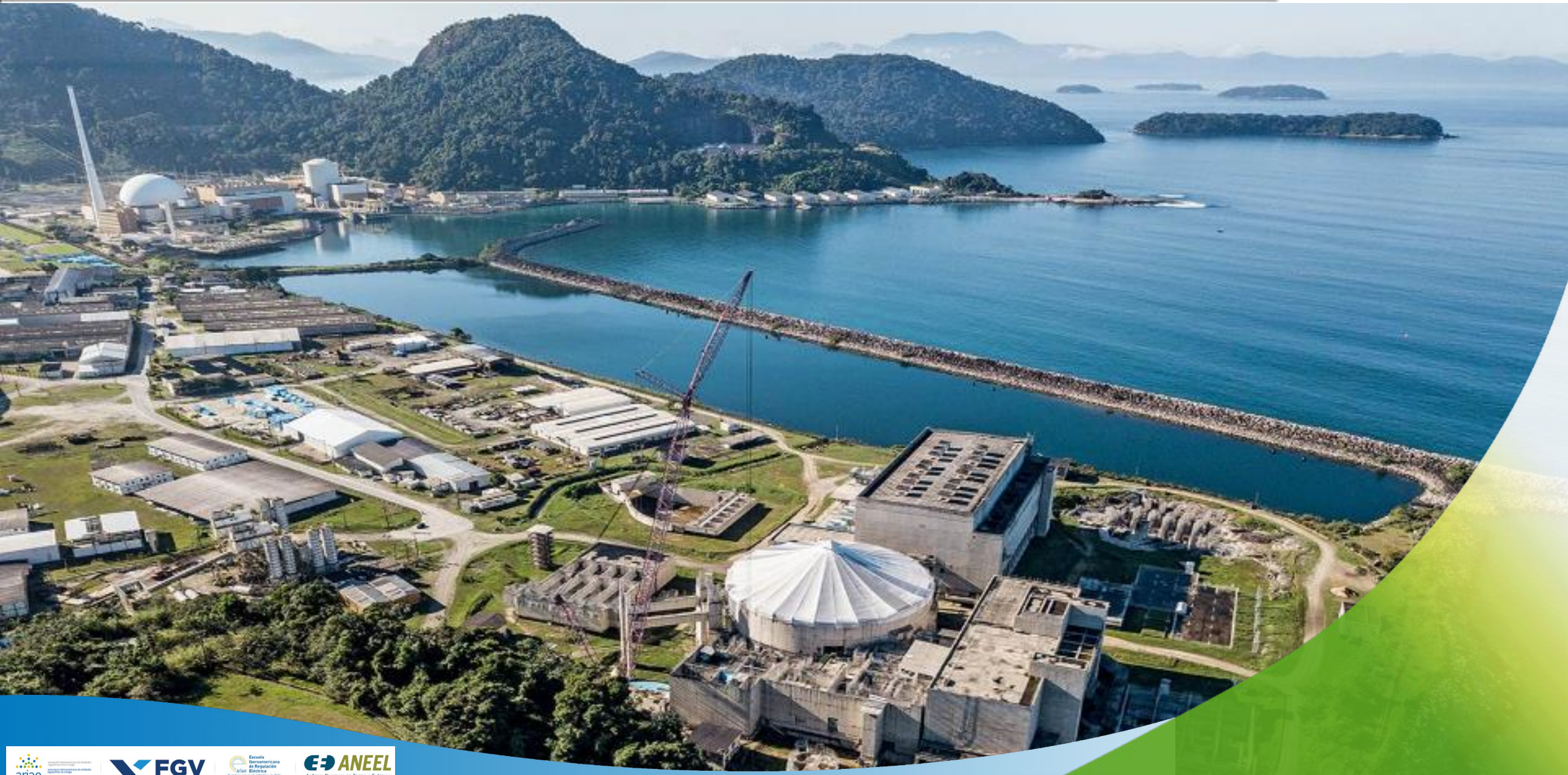


ariae | FGV | Escuela Iberoamericana de Regulación Eléctrica | ANEEL Agência Nacional de Energia Elétrica

SEMINÁRIO INTERNACIONAL
TRANSIÇÃO E INTEGRAÇÃO ENERGÉTICA NOS PAÍSES IBEROAMERICANOS
27 DE SETEMBRO DE 2019 I CENTRO CULTURAL FGV-RIO DE JANEIRO - BRASIL

Eletronuclear

Leonam Guimarães, CEO

NUCLEAR IN LATIN AMERICA: BRAZIL

NUCLEAR IN LATIN AMERICA: MEXICO

≈ 1600 MWe
(after the uprate)

One NPP: Laguna Verde
Veracruz State

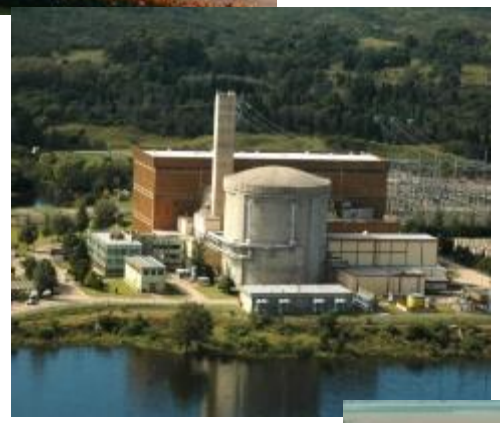
Operator:
Federal Electricity Commission
(CFE)

Two Units
GE BWR-5 reactors

4% installed capacity

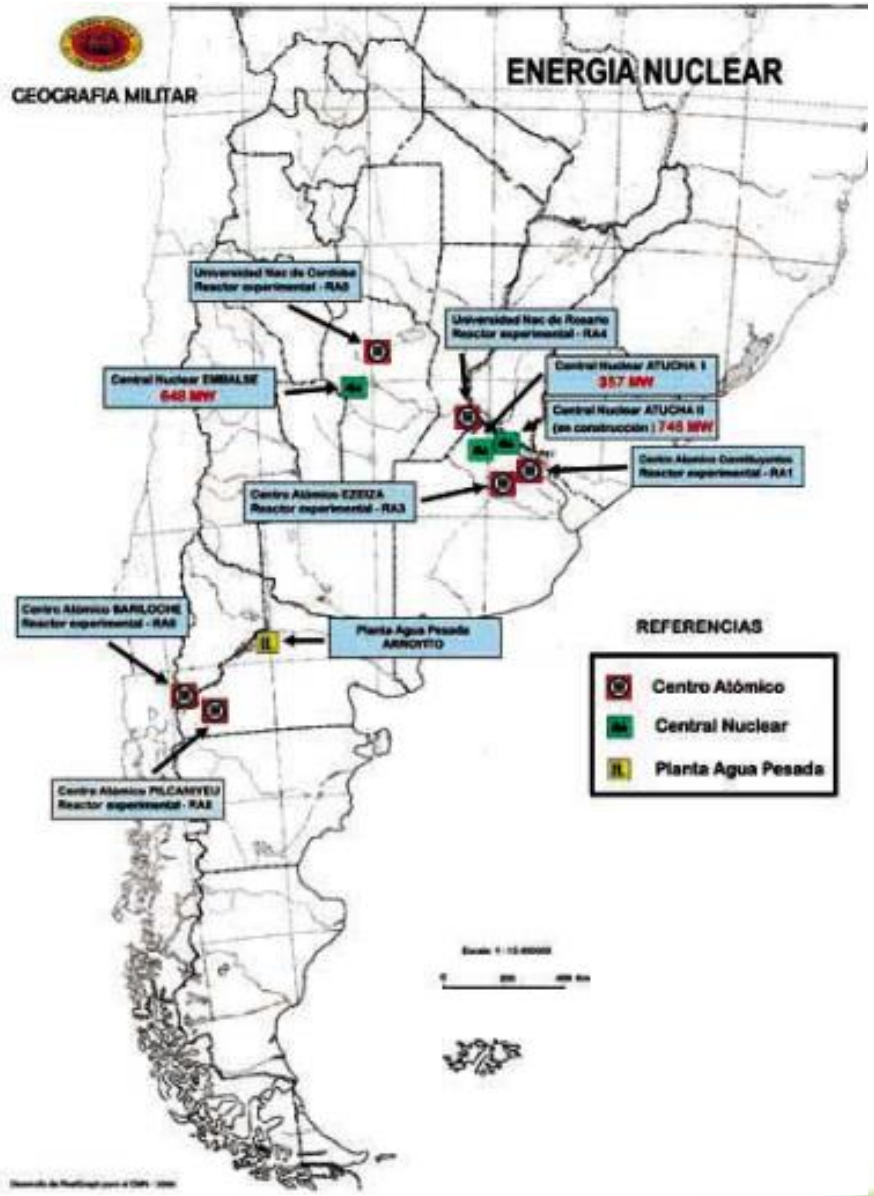
NUCLEAR IN LATIN AMERICA: ARGENTINA

NPP Atucha I
1974
PHWR (Siemens)
357 MWe



NPP Embalse
1984
PTHWR (Candu)
648 MWe
Co-60 production
(3rd in world)

NPP Atucha II
2015
PHWR (Siemens
745 MWe

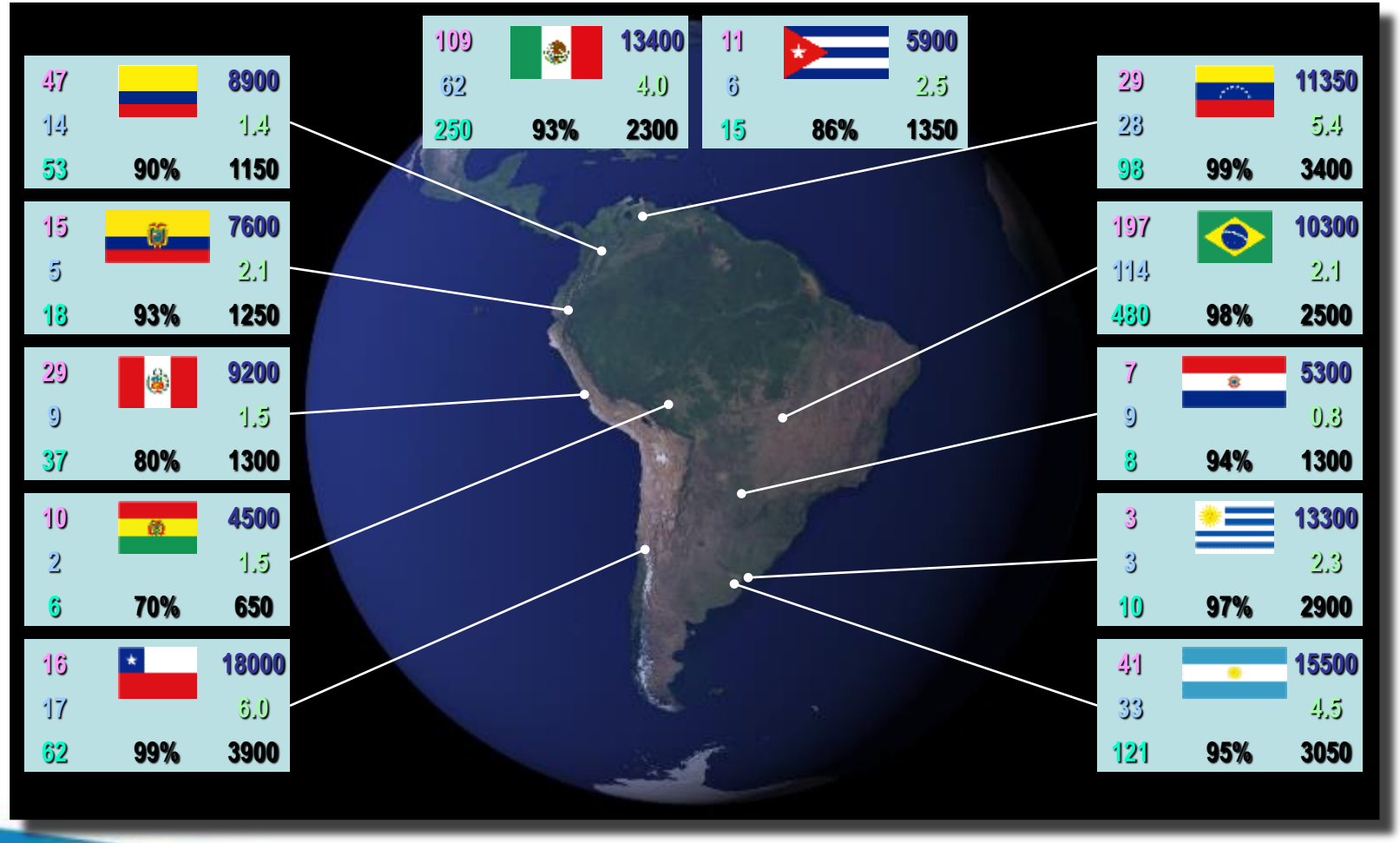


LATIN AMERICA CONTEXT

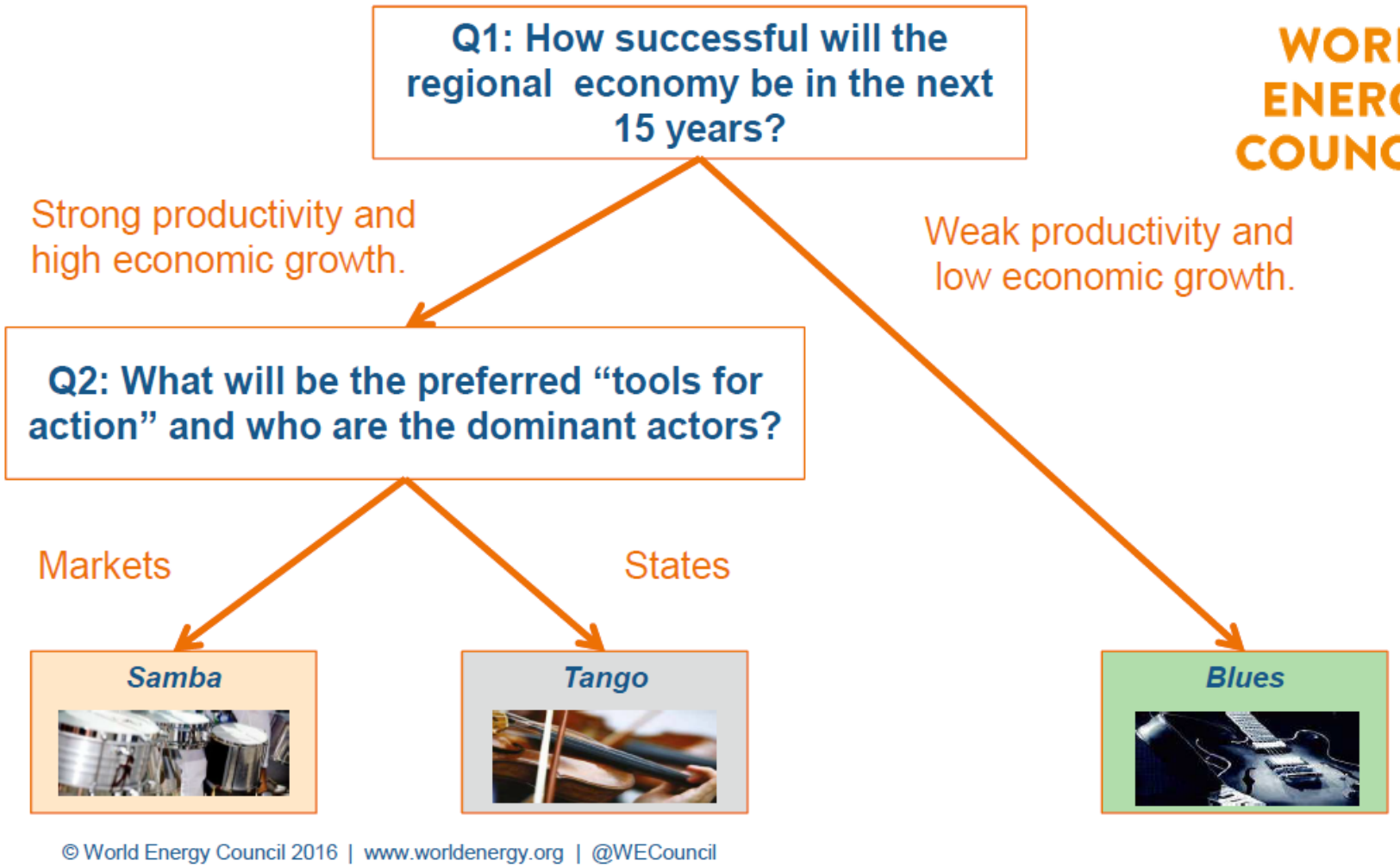
M#	Country	PIBp/#
GW		tCO_2/#
TWh	⚡(%)	kWh/#

590		10400
320		2.7
1250	91%	2150

Different economic, energy and social realities



LATIN AMERICA ENERGY SCENARIOS



WORLD ENERGY COUNCIL

Three Possible Futures for Energy in Latin America

Eletrobras
Eletronuclear

Samba

LAC shaped by successful reform and strong innovation and high productivity with market forces

- Innovation and economic diversification beyond commodity exports
- Energy access for all

Tango

LAC shaped by governments to achieve sustainable growth and resilient energy system

- Strong regional integration
- High investment on regional adaptation and mitigation

Rock

LAC shaped by weak economic growth and waning support from global and regional institutions

- Limited infrastructure investment
- Policies inwardly focused and reform process delayed

Potential of Regional Integration Development across Scenarios

Eletrobras
Eletronuclear

- Progress on Arco Norte and SIEPAC II interconnection projects
- More progress on gas integration projects
- Mexico develops its relationship with the US

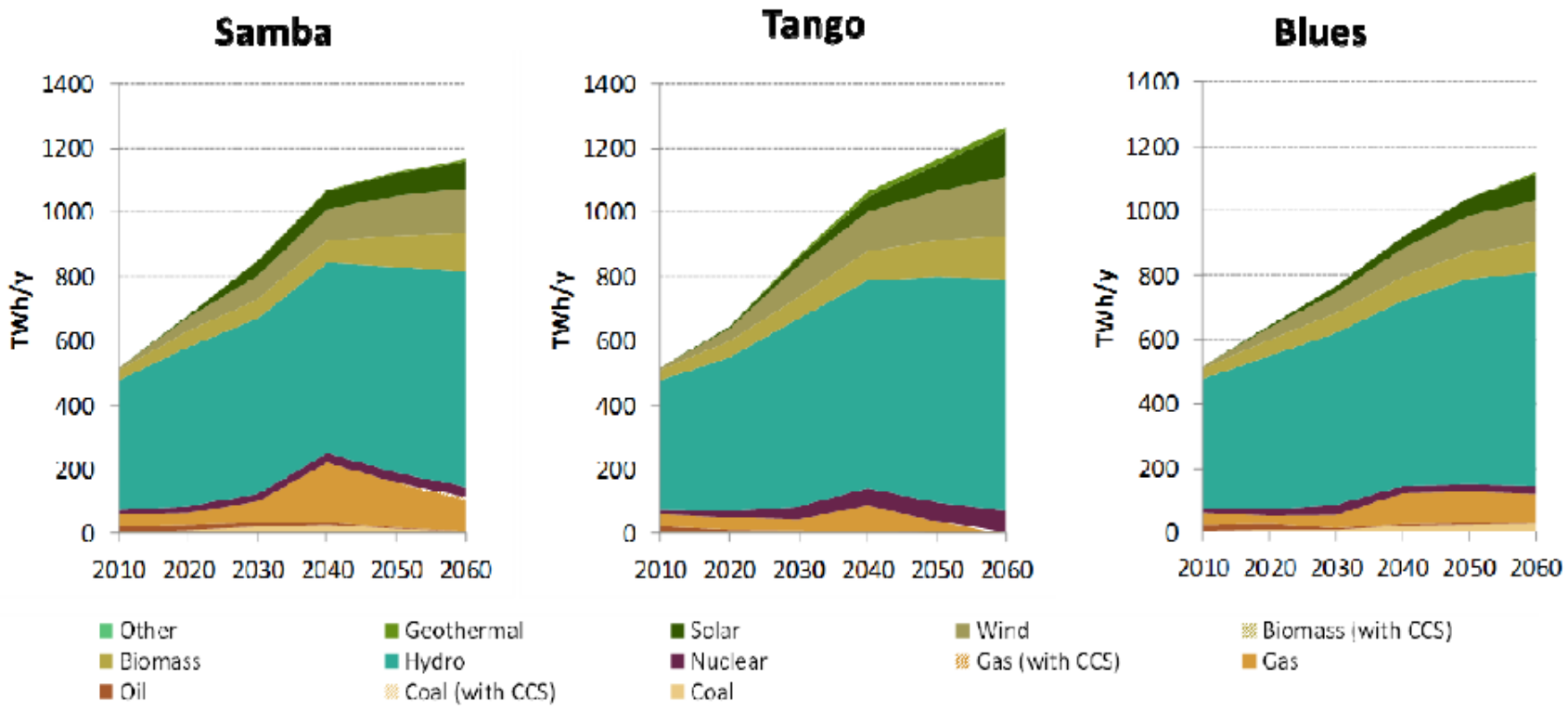
- All countries of LAC are integrated as a result of full progress on projects like Arco Norte, SINEA and SIEPAC II
- Mexico wants electricity interconnection to the Caribbean

- Risk increases in the existing regional integration
- Less progress on new regional integration projects
- Mexico explores new export / collaboration opportunities with LAC

LATIN AMERICA ENERGY SCENARIOS

"Nuclear remains very limited in LAC region due to lack of institutional capacity and high capital costs"

WORLD ENERGY COUNCIL



LATIN AMERICA NUCLEAR ENERGY SCENARIOS

IAEA International Atomic Energy Agency