

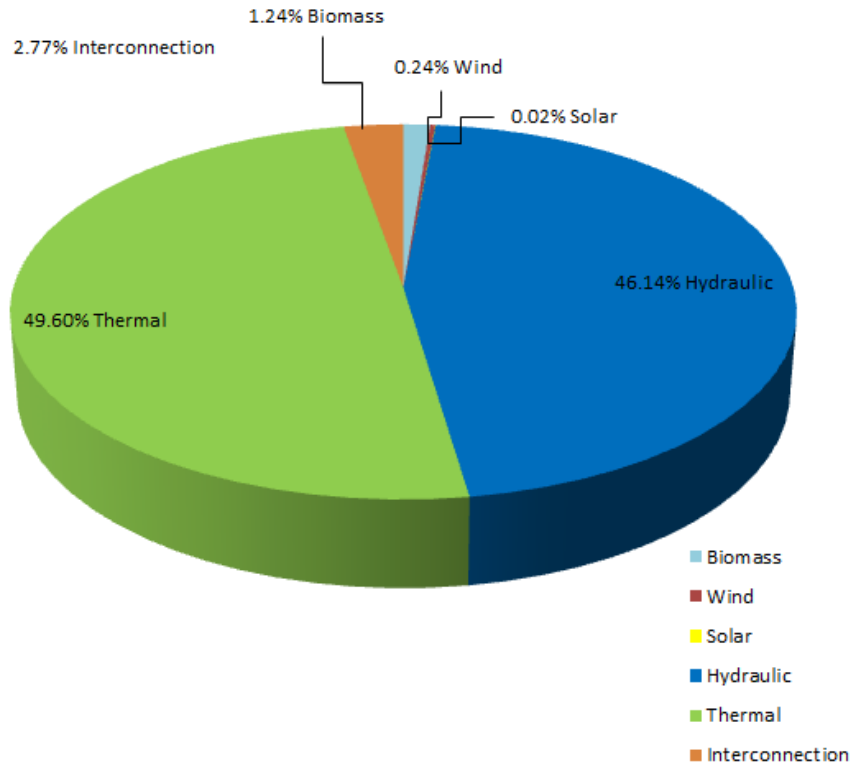


Ecuador renewable energies towards electricity storage systems

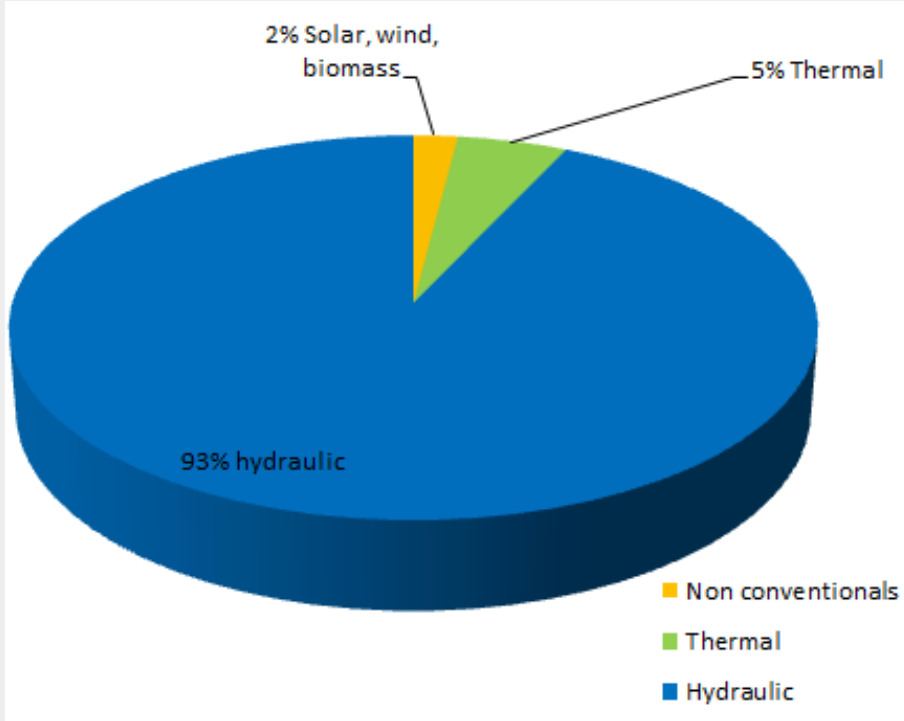
National Institute for Energy
Efficiency and Renewable Energies

Electricity Generation Structure

Actual 2014



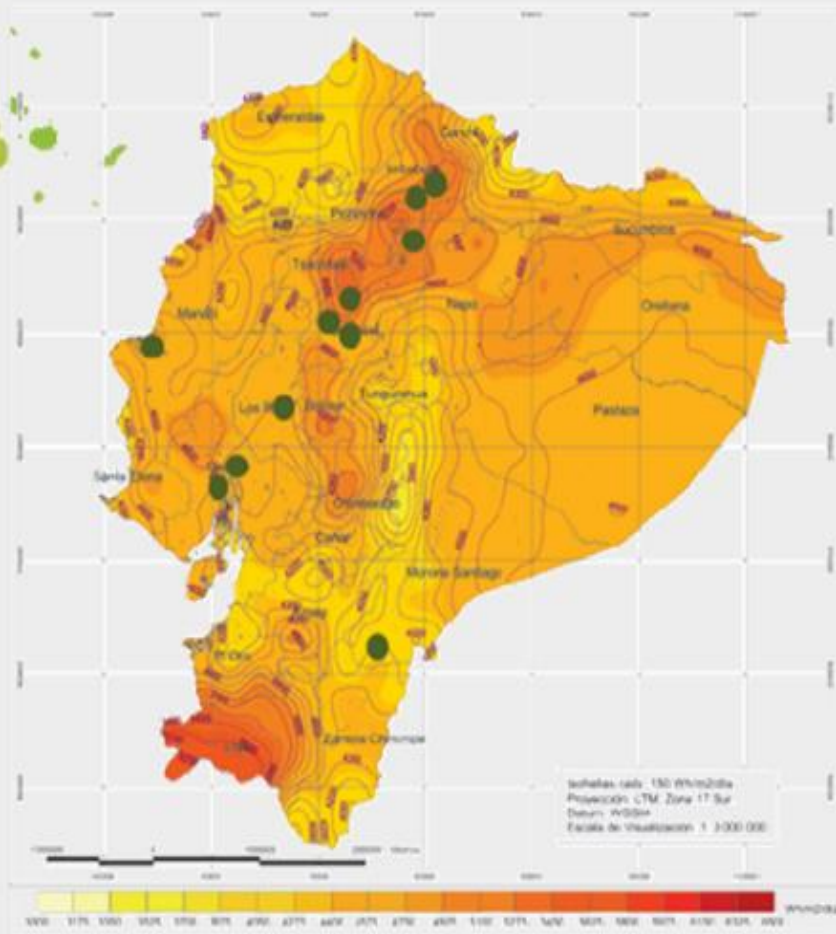
Future 2017



Source: National energy Balance, MICSE 2014

Photovoltaic Energy

Solar Atlas



Power potential

19100 MW

100%

Power installed

13,38 MW

0,07%

- 11 Projects installed in the highlands: 11,81 MW
- 6 Projects installed in the Galapagos Islands: 1,57 MW
- Average Annual Solar Radiation: 4575 Wh/m²/day



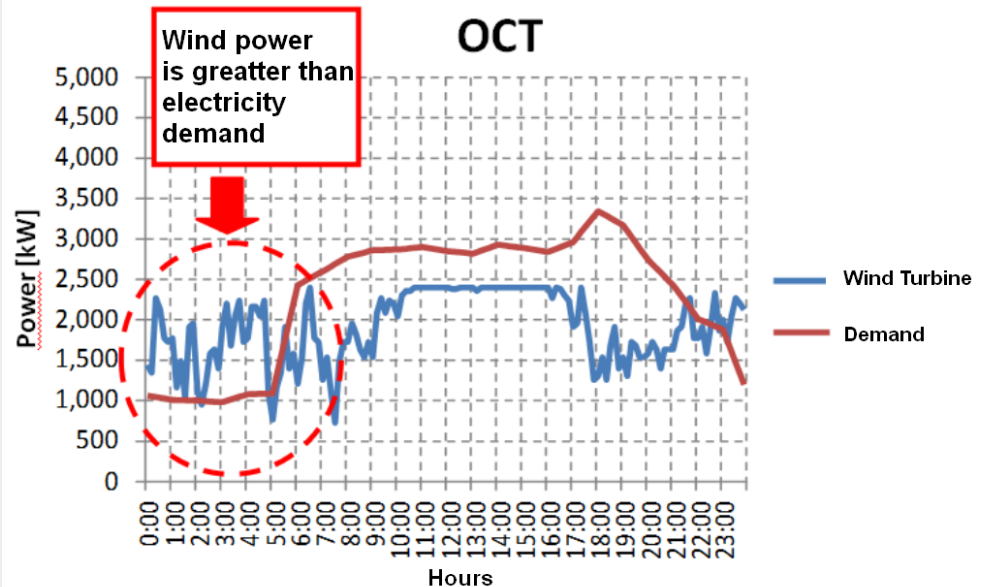
Electricity Storage Systems and Demand

Solar photovoltaic includes ESS
Wind Energy will incorporate ESS

Li-Ion
battery/
Ni-MH
battery

NAS Battery/
Redox Flow
Battery

Long-life Lead Acid
Battery (Pb)



Thank very much for your attention



Email: juan.jijon@iner.gov.ec
Diego Jijón