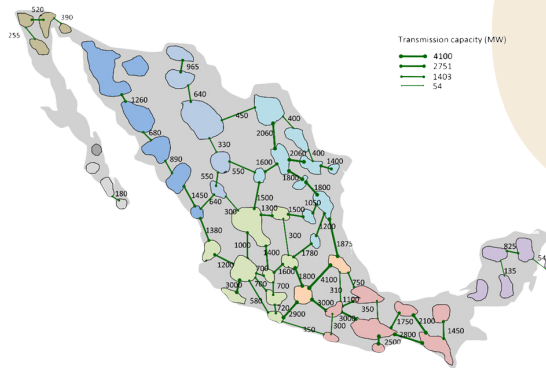
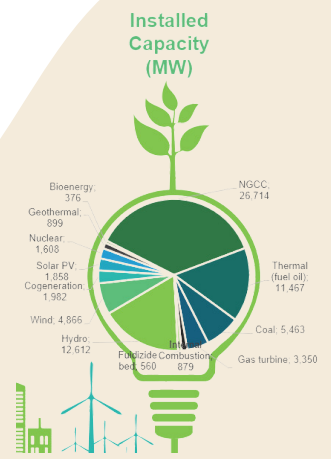


NUCLEAR ENERGY ROLE in achieving NDC goals in Isolated systems (MEXICO)

BY LUIS GERARDO GUERRERO

Mexico target is to reduce 35% by 2030 of GHG relative to its baseline, with at least 30% coming from domestic resources and 5% through international cooperation and financing dedicated to clean energy. (Mexico NDC, Update 2022)

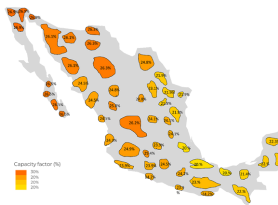


BCS Isolated system

- Cities that rely on tourism as their most important income
- Two nodes, (La Paz and Los Cabos)
- More than 1,000 km of empty desert
- No natural gas pipelines.
- Electricity Generation mainly through fossil fuels

Clean energy options

The country benefits from a high potential for renewable resources. It enjoys abundant solar resources, particularly in the northern regions, while wind resources are considerable especially in coastal areas

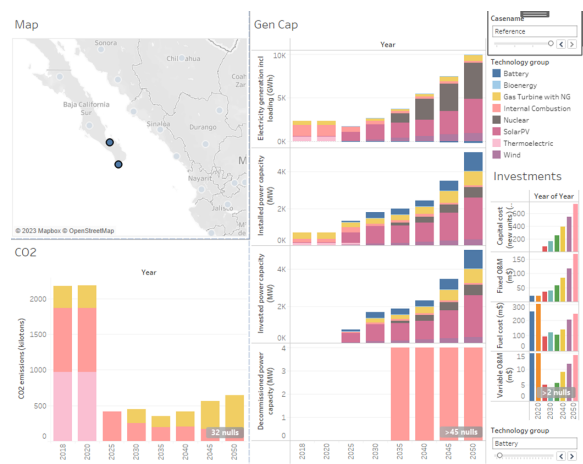


Nuclear

Restriction regarding the amount of nuclear energy expansion that the model could take. In BCS, specifically in the La Paz region, it used feasibility studies as an option for the installation of a medium or small nuclear reactor.

ISOLATED SYSTEMS AND NUCLEAR ENERGY

Nuclear energy is expected to play a mayor role for achieving NDC goals in isolated systems.



Further studies are being carried out to study the sensitivity analysis for nuclear energy costs against other technologies. The model used for this studies is BALMOREL energy model which is a partial equilibrium model, which supports modelling and analysis of the energy sector with emphasis on the electricity and the combined heat and power sectors..

