



JCM CASE STUDY: Energy Development Corporation | Geothermal

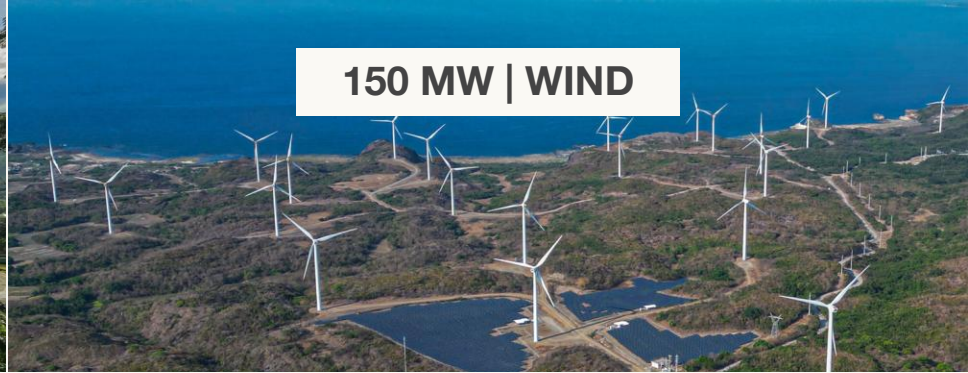
New Delhi , India
4 March 2025

Carlo L. Santos
AVP and Head, Project Development Local Geothermal





1,169.8 MW | GEOTHERMAL

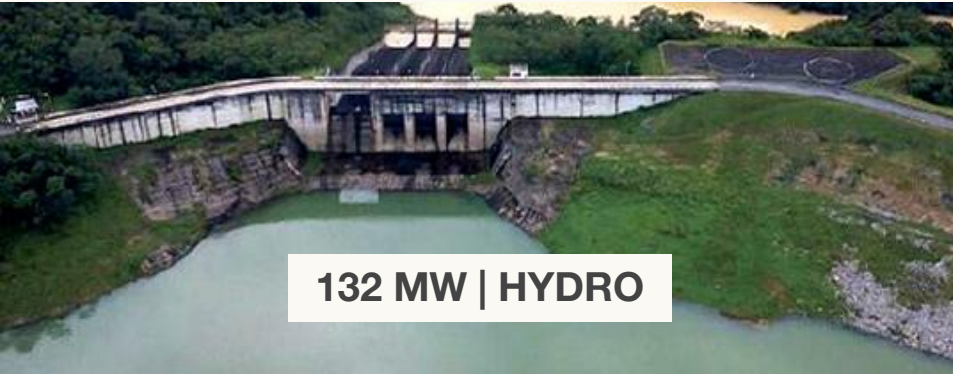


150 MW | WIND



100% Renewable energy producer

1,464.5 MW TOTAL INSTALLED CAPACITY



132 MW | HYDRO



12 MW | SOLAR

OUR MISSION:

To forge **Collaborative** Pathways for a
Decarbonized and **Regenerative** Future



THE PHILIPPINES IS ONE OF THE TOP GEOTHERMAL POWER PRODUCING COUNTRIES

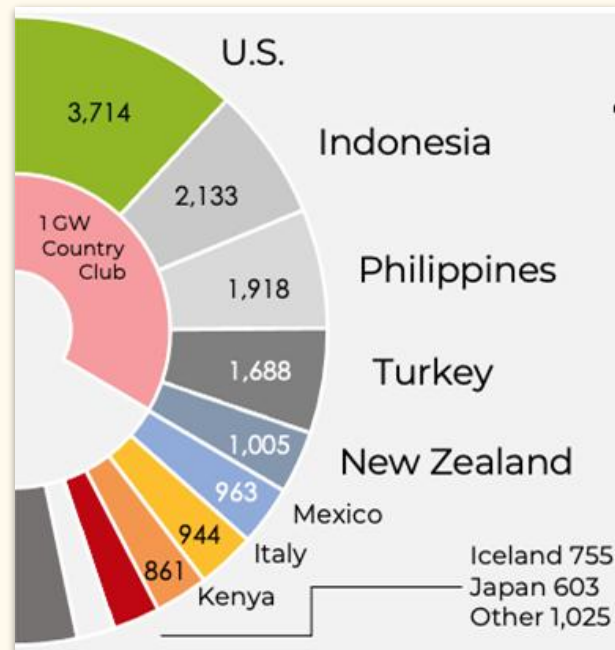
Reducing and Removing Greenhouse Gas (GHG) Emissions through various solutions



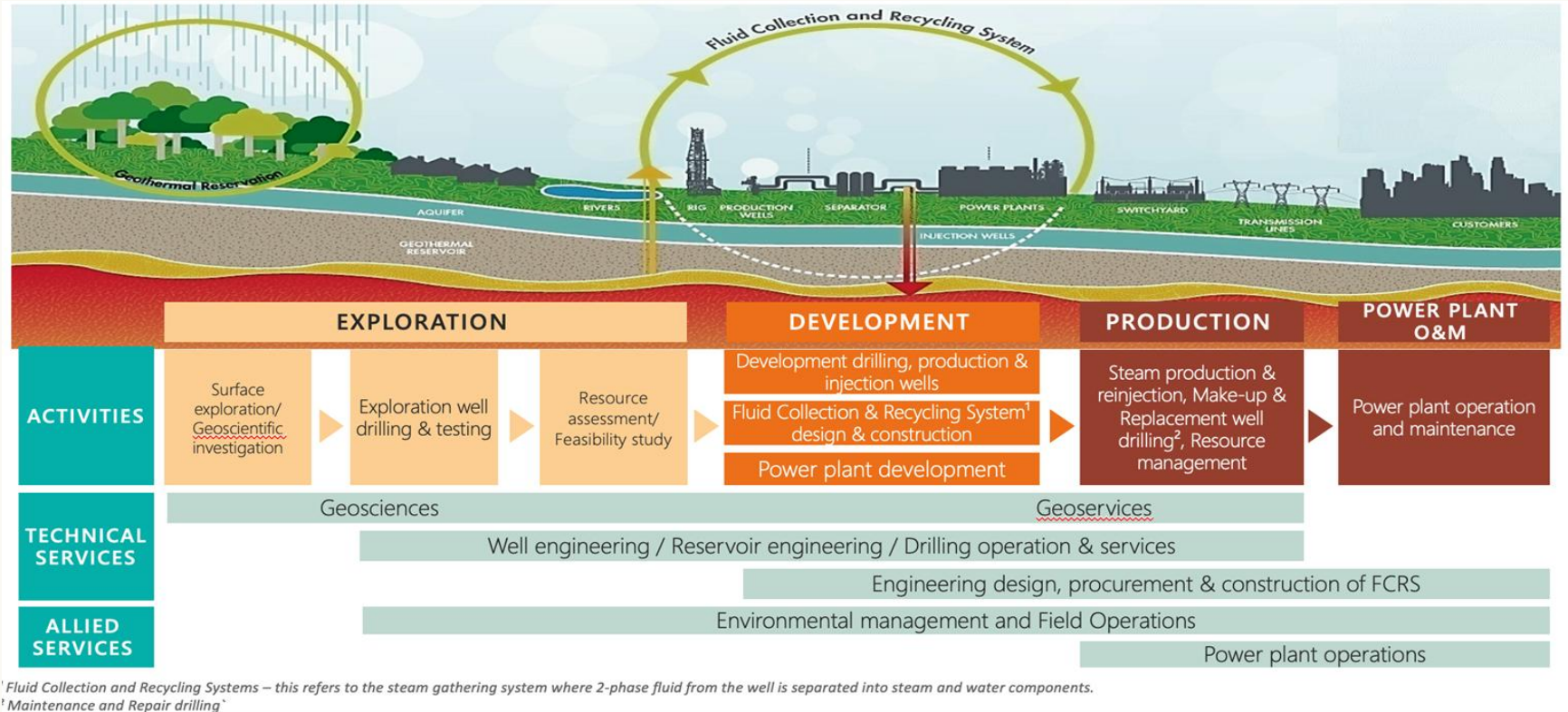
Top 10 Geothermal Countries 2020

Installed Capacity in MWe
Year -End 2020

Total 15,608 MW



Geothermal Development spans years and cuts across multiple stages and phases



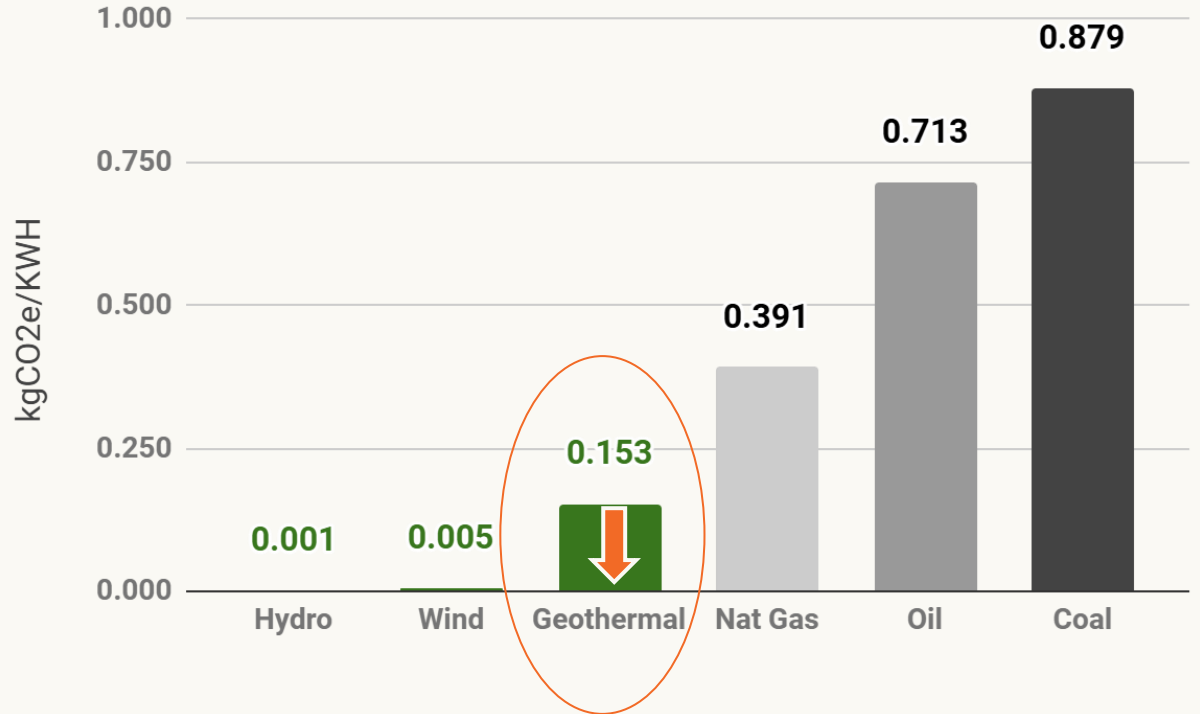
¹ Fluid Collection and Recycling Systems – this refers to the steam gathering system where 2-phase fluid from the well is separated into steam and water components.

² Maintenance and Repair drilling

OUR GOAL: To Achieve Net Zero by 2040

Reducing and Removing Greenhouse Gas (GHG) Emissions through various solutions

Carbon Intensity Per Technology





Five Years of Progress: 83MW of New Geothermal Power with Japan's Support

28.9MW Palayan Bayan
JCM class of 2020

20MW Tanawon
JCM class of 2021

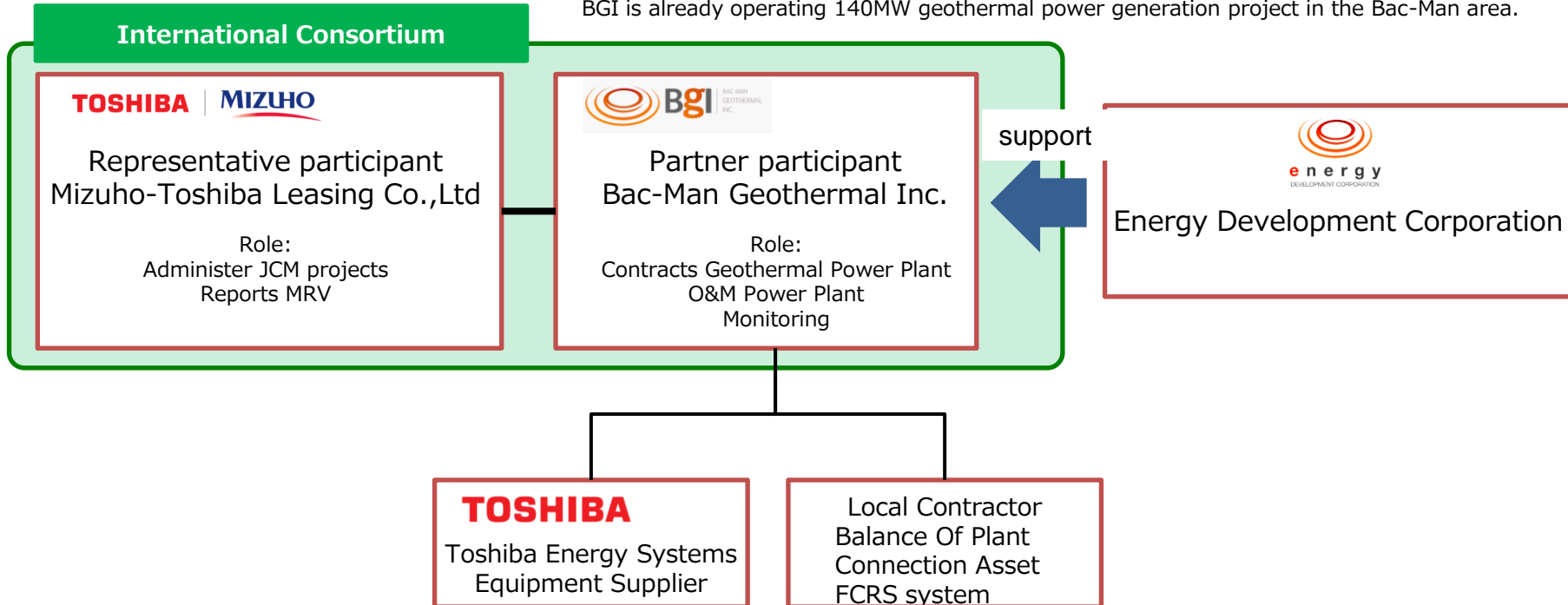
29MW Mahanagdong and 5.6MW Bago Binary
JCM class of 2022



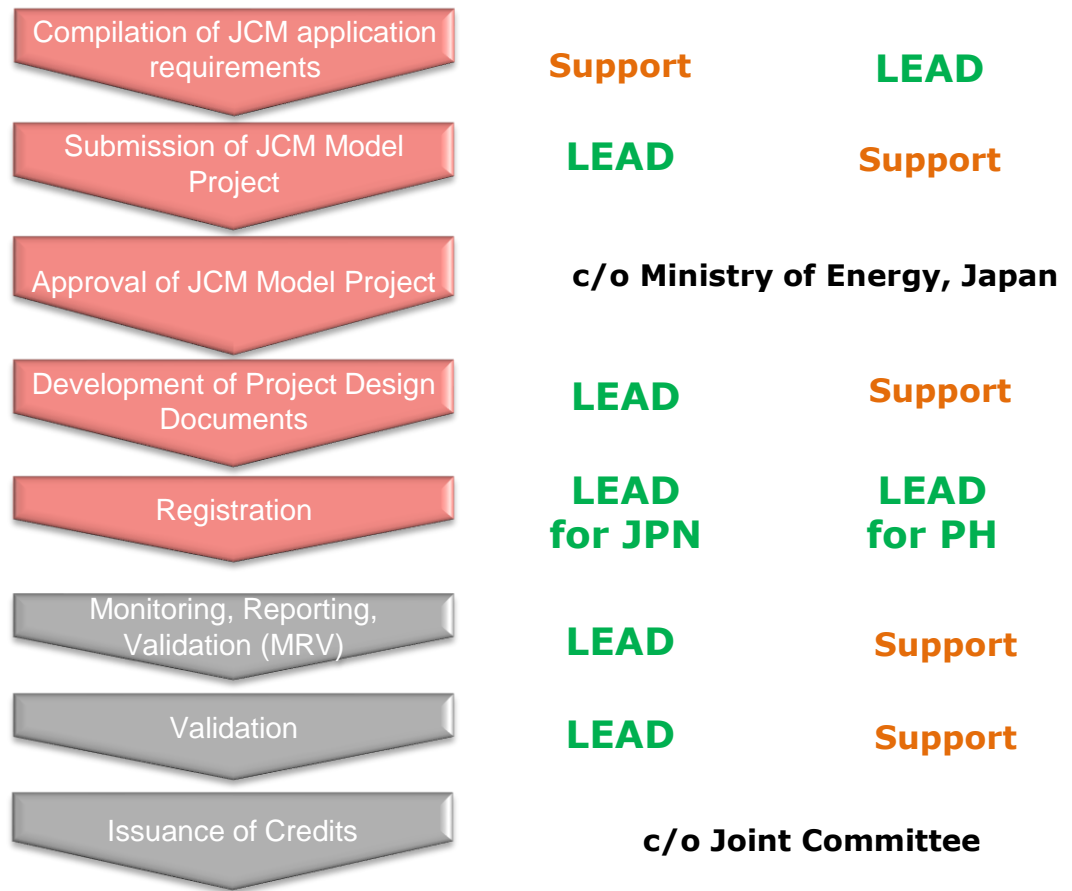
Typical Implementation Structure of the Project

Example: 20MW Tanawon Power Plant Project

BGI is a wholly owned subsidiary of Energy Development Corporation (EDC). EDC's installed capacity is at 1,476.59MW and they are the 3rd largest geothermal producer in the world. BGI is already operating 140MW geothermal power generation project in the Bac-Man area.



Success factor:
Clear scope deliniation and obligations ...as well as aligned acceptance criterias





February 2024 GEC Confirmation visit of 28.9MW Palayan Bayan Binary Project with MHI