

## Pertamina Geothermal Energy: Unlocked the biggest geothermal potential

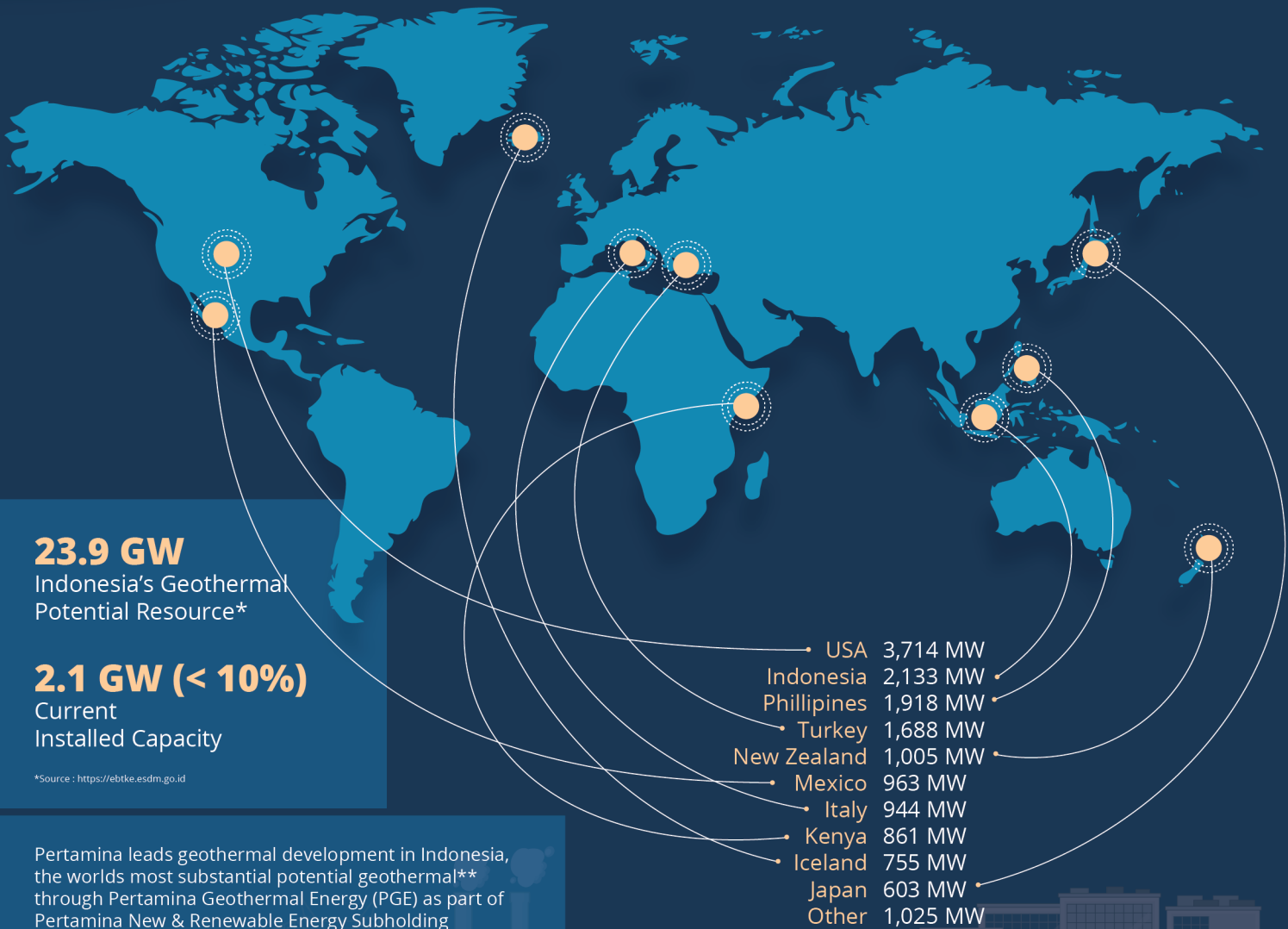
*"Indonesia is one of the countries with the largest geothermal potential in the world, and only a few have been developed at this time. So there is still huge potential to be managed."*

**Nicke Widyawati**

President Director & CEO PT Pertamina (Persero)

### WORLD'S LARGEST GEOTHERMAL (INSTALLED CAPACITY)

ThinkGeoEnergy Top 10 Geothermal Countries 2020  
Installed Capacity in MWe, Year End 2020  
Total 15,608 MW



**23.9 GW**

Indonesia's Geothermal Potential Resource\*

**2.1 GW (< 10%)**

Current Installed Capacity

\*Source : <https://ebtke.esdm.go.id>

Pertamina leads geothermal development in Indonesia, the worlds most substantial potential geothermal\*\* through Pertamina Geothermal Energy (PGE) as part of Pertamina New & Renewable Energy Subholding

\*\* : <https://www.adb.org/sites/default/files/institutional-document/666741/indonesia-energy-asr-update.pdf>

Source : Think GeoEnergy Research (2021)

### PGE at a glance

**88%** Installed Capacity in PGE Geothermal Working Areas

**15** Geothermal Working Areas all around Indonesia

**1,877 MW**

Installed Capacity - Own Operation 672 MW and 1,205 MW Joint Operation Contract (JOC)

# PGE 2020 highlights

**9.7 ton**

CO2 emission reduction equivalent per annum

**4.618 GW**

Electricity produced by PGE (114% from 2020 target)

**0 accident**

With 5.2 million safe man hours

**ISO 37001:2016**

Anti-Bribery Management System

**Gold standard**

PGE has run carbon economy through Clean Development Mechanism and gain VCS certification

## Biodiversity Management

PGE conserves local flora and fauna surrounding operational sites such as Javan Hawk Eagle conservation and Chrysantheum, the endemic flower in Tomohon, North Sulawesi

**PGE**  
Future Development

**2x**

Double stand alone installed capacity from current Own Operation Installed Capacity of 672 MW to become 1,540 MW in 2030



**Green Hydrogen**

PGE starts to develop green hydrogen energy by implementing multitrack development mechanism

