

BY THE NUMBERS:

GEO THERMAL CUTS COSTS AND CARBON

The potential grid impact of national-scale mass deployment of geothermal heat pumps coupled with weatherization in single-family homes cannot be denied.

BY CATHY CECERE

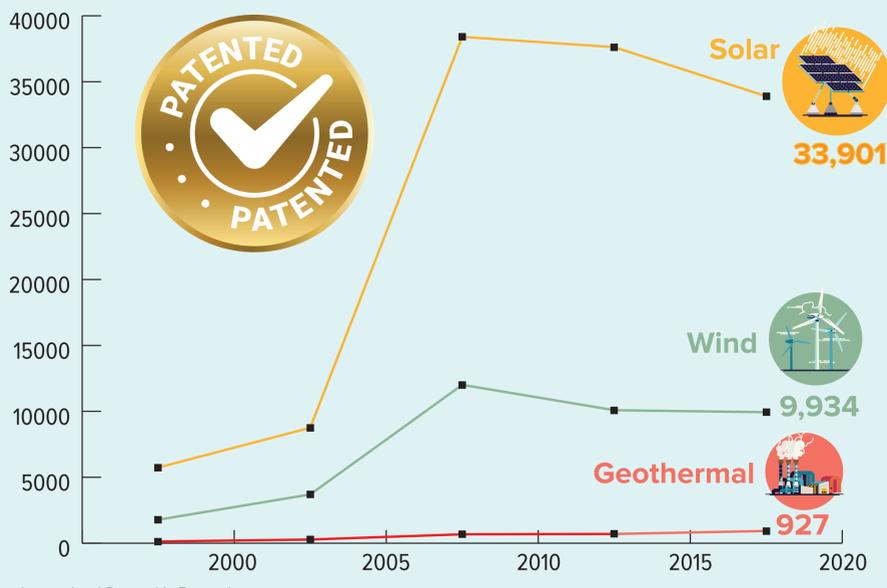
With 62 percent of workers saying they're NOT likely to leave their engineering firms within the next year, such organizations don't consider retention a burning issue. But busy firms ARE experiencing staffing shortages because recruitment remains a challenge. Fifty-six percent of staff said their teams have faced shortages monthly or at least every three months, reported [The 2023 Kelly Global Re:work Report](#).

Engineering firms keep staff because they offer development opportunities—a “top priority among workers,” explained Jorge Puente, vice president of engineering with Kelly’s Science, Engineering, Tech, and Telecom unit. Eighty-one percent of staff reported being able to dedicate time to training and 52 percent said their firms actively encourage them to develop their skills.

“But no sector is immune to talent attraction challenges,” Puente concluded. Recognizing this, 51 percent of leadership are working to make their development strategy better and 55 percent look to automate tasks/processes to get more work done with less people. **(156 words)**

LACK OF FUNDING DELAYS GEO THERMAL ENERGY

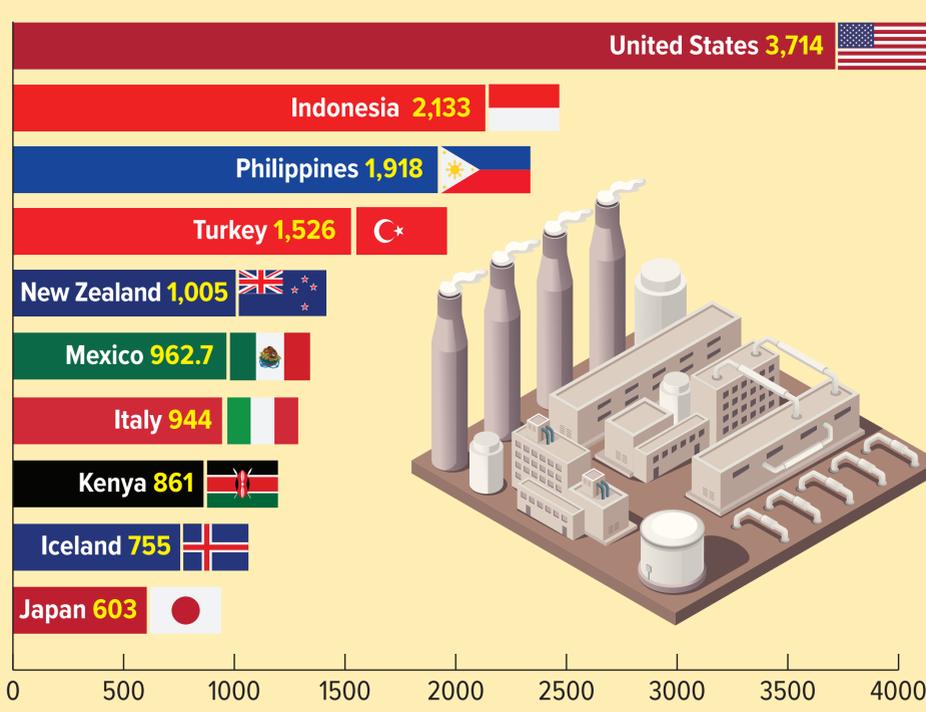
NUMBER OF TECHNOLOGY PATENTS 2000 TO 2020



Source: International Renewable Energy Agency

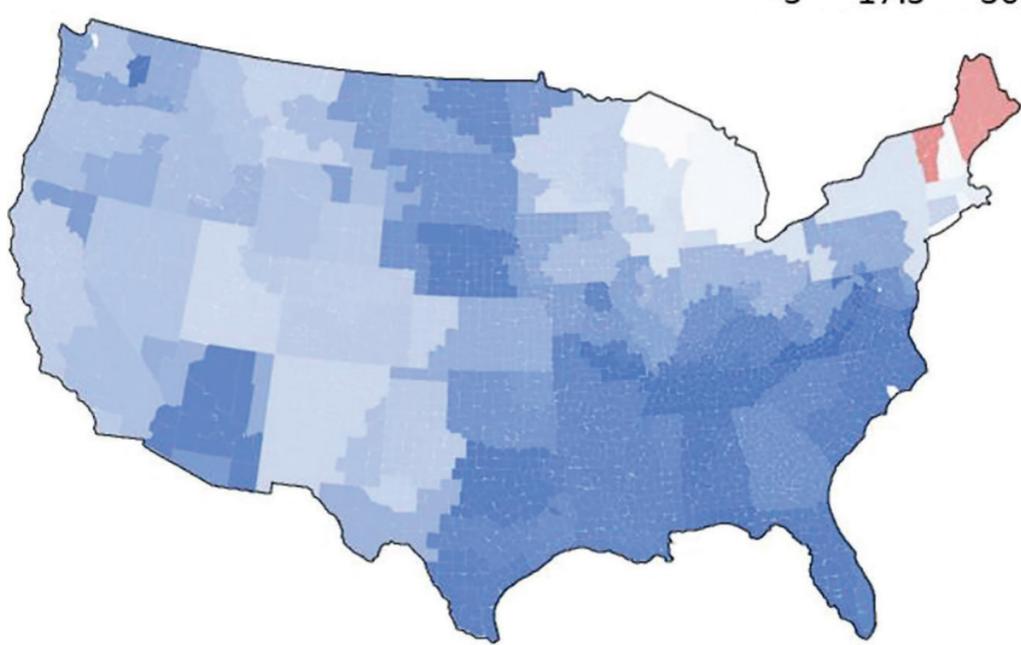
U.S. LEADS IN GEO THERMAL CAPACITY

INSTALLED GEO THERMAL CAPACITY, MW, 2020

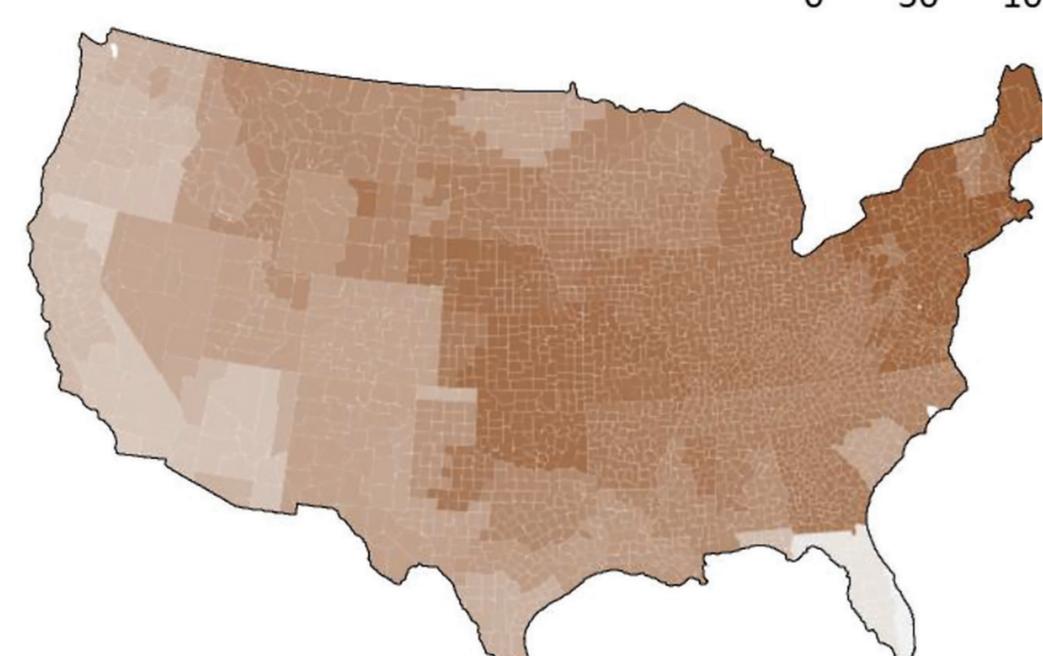


CHANGE IN ELECTRICITY CONSUMPTION AND CARBON EMISSIONS AFTER DEPLOYING GHPS

Electricity Consumption Savings (%)



On-site CO2e Emissions Reduction (%)



Source: Oak Ridge National Laboratory