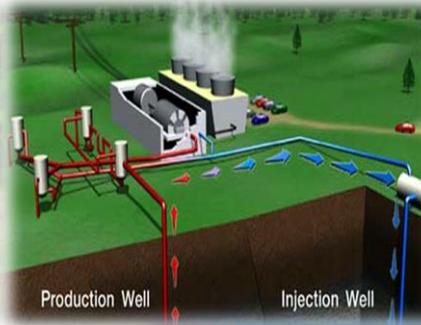




## Grenada Geothermal Resource Development

- Clean Sustainable Baseload Energy -  
Use of Geothermal Resources

No. 4 Vol. 1



### Uses Of the Geothermal Resource

Geothermal hot water can be used for many applications that require heat.

Ancient societies, including that of the Romans, Chinese, and Native Americans, used hot mineral springs for bathing, cooking, and heating. In many first world countries, water from hot springs is now used in spas (e.g. Blue Lagoon, Iceland), for heating buildings, and for industrial activities. Many people also believe hot mineral springs have natural healing powers.

The geothermal resource is also used heavily in the Agricultural sector for growing plants in greenhouses, drying crops or food dehydration, heating water at fish farms, and milk pasteurizing. Dehydration, or the drying of vegetable and fruit products, is one of the most common use of geothermal energy.



Geothermal fluid is also used in the generating of electricity. When the temperature of a hydrothermal resource is around 220°F and up, it can be used to generate electricity. Most electricity-producing geothermal resources have temperatures from 300 to 700°F, but



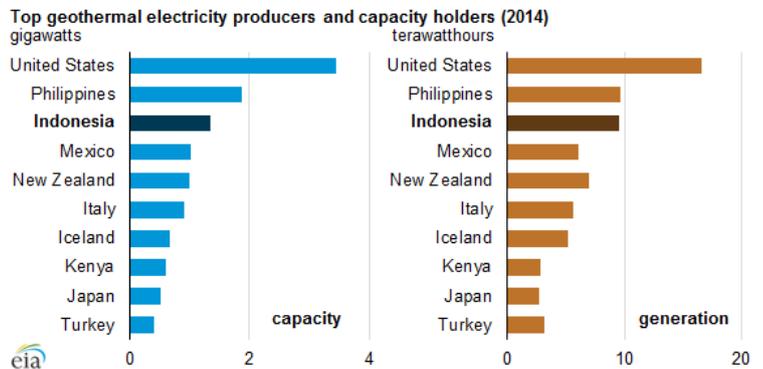
geothermal reservoirs can even reach 1,000°F. Presently, new technology allows for using low temperatures to produce electricity, e.g. *Enhanced Geothermal Systems (EGS)*.

Worldwide, electricity is now produced from geothermal energy in more than 20 countries, from an operating capacity of 13.3GW, serving more than 600 million persons.

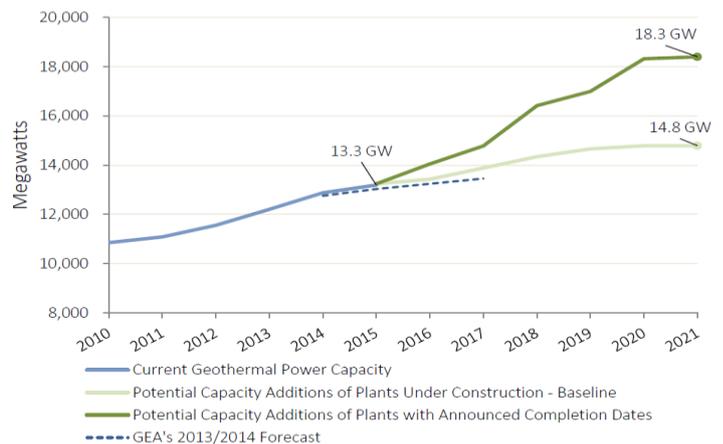
According to the 2016 Global Geothermal Power Production Report, the global geothermal market was developing about 12.5GW of planned capacity across 82 countries.

Based on current data, the global geothermal industry is expected to reach about 18.4GW by 2021.

It is anticipated that if all countries follow through on their geothermal power development goals and targets, the global geothermal market could reach 32GW by the early 2030s.



Source: U.S. Energy Information Administration  
Figure 1: International Geothermal Power Nameplate Capacity (MW)



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