

## 12. Geothermal power generation

Geothermal energy power stations exploit the heat in rocks deep below the surface to generate steam. They are often used in areas where the crust is very thin, such as Iceland or parts of New Zealand. Hot springs are a good indication of potential sites.

### The last decade

There has been no commercial work on this technology in Bangladesh.

### Assumptions of model

The model assumes an average plant size of 200 MW.

### Levels

#### Level 1

Least effort. No geothermal power stations are built.

#### Level 2

Current policy. No geothermal power stations are built.

#### Level 3

The best locations are exploited. A 0.2 GW test plant is built by 2020, expanded out to 0.8 by 2035.

#### Level 4

All possible locations are investigated. 0.4 GW is added by 2020, expanding out to 2 GW by 2040.

### Interaction with other levers

There are no interactions with other levers.

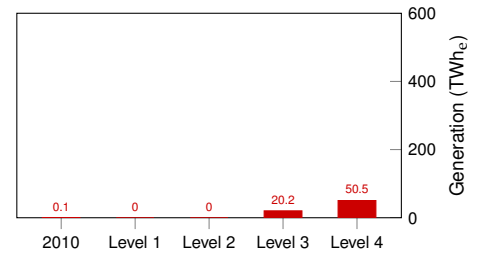


Figure 12.1: Projected Capacity in 2050

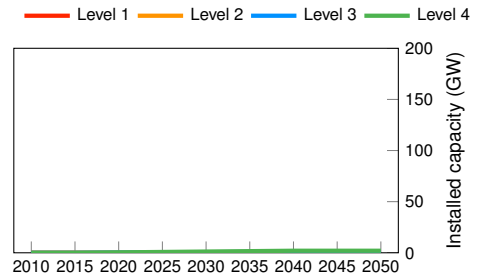


Figure 12.2: Development of capacity by scenario

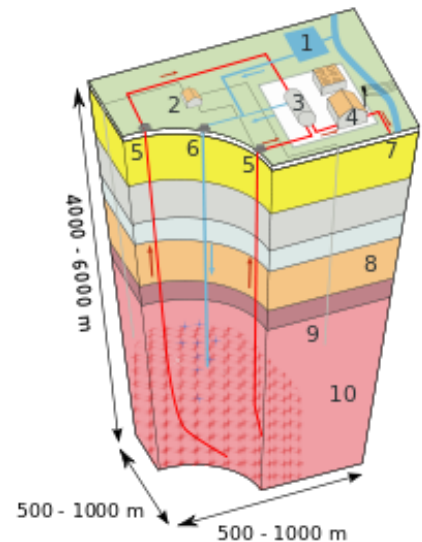


Figure 12.3: An example Geothermal Power Plant