

## **MEDIA RELEASE**

4 September 2023

### **New Study To Assess Geothermal Potential Across Whole of Singapore**

The Energy Market Authority (EMA) has issued a Request for Proposal (RFP) for a Singapore-wide non-invasive geophysical study to assess Singapore's deep geothermal resource potential, at depths up to 10 km, for the purpose of power generation. This follows the localised exploratory studies conducted in northern and eastern Singapore, which have been identified to hold geothermal potential based on their higher surface temperature measurements.

2 The past studies have indicated that Singapore lies in a region of high subsurface heat flow and could potentially possess heat resources deep underground. In July this year, an exploratory study by the Nanyang Technological University has also found that the heat from a depth of 4 to 5 kilometres in the Admiralty area could be suitable for power generation.

3 As a small, resource-constrained country, Singapore has limited renewable energy options and imports almost all its energy needs. EMA is thus exploring indigenous energy options other than solar to further diversify and decarbonise Singapore's energy sources to support Singapore's international climate commitment to achieve net zero emissions by 2050, while also improving the country's energy resilience.

4 A holistic study is required to determine the overall geothermal potential and the scalability of geothermal power across Singapore. The comprehensive study under the RFP will provide additional data to assess geothermal energy as a potential source of renewable energy, and identify suitable locations for the potential deployment of geothermal power plants in Singapore. The data and information

availed through the study will also be used to assess the potential for subsurface geologic carbon sequestration<sup>1</sup> in Singapore.

5 Interested parties are invited to provide their submissions by 8 December 2023, 4pm (Singapore time). More details on the RFP are [available here](#).

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### About the Energy Market Authority

The Energy Market Authority (EMA) is a statutory board under the Singapore Ministry of Trade and Industry. Through our work, we seek to build a clean energy future that is resilient, sustainable, and competitive. We aim to ensure a reliable and secure energy supply, promote effective competition in the energy market and develop a dynamic energy sector in Singapore. Visit [www.ema.gov.sg](http://www.ema.gov.sg) for more information.

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<sup>1</sup> Geologic carbon sequestration involves injecting carbon dioxide (CO<sub>2</sub>) deep underground into geological formations (e.g. deep saline aquifers), for long-term storage to mitigate climate change.