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## ABSTRACT

### **Creating novel values around energy and geothermal energy in Japan**

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In 2019, Tohoku University established an interdisciplinary foundation and network for research related to the creation of new societal and individual values around energy (“novel energy values”) in view of promoting sufficiency and sustainable development. This interdisciplinary initiative aims to involve a wide range of academic fields such as material science, energy management, earth science, and economics. One of the shared approaches involves backcasting scenarios and fixing research and technology development agendas in line with these target values (Factor of X).

In this lecture, I would like to introduce the current situation regarding the sustainable utilization of geothermal energy in Japan and collaboration efforts with hot springs (*onsen*).