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This case explores a debate in Iceland: should Iceland accelerate the development of its green energy resources by attracting more power intensive industries to locate in the country and perhaps export some of its power to Europe or should it slow the rate of power development and focus on preserving its unique natural resources and build up ...

The aim of this paper was to understand the relevance of accounting for geothermal resource dynamics for sustainable energy system planning in Iceland. This included assessing the implications of transition to electric vehicles as a decarbonisation strategy in Iceland.

In Iceland, hydropower represents around 72% of the gross electricity generation annually, with energy production capabilities around 13.8 TWh/a. Most of the hydropower infrastructure is in the central highlands, relying on water resources temporarily stored as snow and ice.

Iceland is a paradigmatic example of gaining energy independence and decarbonizing the power sector while meeting its growing demand. In this paper, we focus on some of the main generation and transmission expansion alternatives that the country is considering for the next decade in an environment dominated by an increasing demand and a ...

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This advanced research seminar investigates the spatial and ecological implications of the recent shifts in the cultural perception of energy exploitation in Iceland. The Icelandic landscape is facing increased pressure in a geopolitical situation where energy policies lead to infrastructural development and ecological adaptation.

The Icelandic power system is based primarily on hydroelectric and geothermal generation. The system has large resources compared to the size of Iceland's economy. The main utilization practice for electrical energy hitherto has been bulk Energy Intensive Industry (EII) with relatively flat and constant load.

Halla Hrunn Logadóttir is the Director-General of Iceland's National Energy Authority and teaches the Arctic course at the Harvard Kennedy School. Previously, Ms. Logadóttir Co-founded and was the Co-director of the Arctic Initiative at Harvard Kennedy School ...

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Harvard Electricity Policy Group John F. Kennedy School of Government Harvard University 79 John F. Kennedy Street Mailbox 84 Cambridge, MA 02138 USA Phone: (617) 496-6760 E-mail: [h e p g \( a t \) h k s . h a r v a r d . e d u](mailto:h e p g ( a t ) h k s . h a r v a r d . e d u)

Iceland now uses geothermal energy to generate a large portion of its electricity and nearly all of its heating needs. Iceland's president Ólafur Grímsson was at Harvard on Tuesday (Sept. 25) to deliver this inspiring message and to announce that his country stands ready to lead the world toward a cheap and pollution-free energy future.

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