

A new NASA study adds evidence that a geothermal heat source called a mantle plume lies deep below Antarctica's Marie Byrd Land, explaining some of the melting that creates lakes and rivers under the ice sheet.

Towards a greener Antarctica: A techno-economic analysis of renewable energy generation and storage at the South Pole ANL: Susan Babinec (energy storage), Ralph Muehlsein (solar modeling & system design), Amy Bender (CMB exp, S. Pole), NREL: Nate Blair (economics), Ian Baring-Gould (wind modeling), Xiangkun Li (system optimization), Dan Olis

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Over the past three decades, improved building design, behavioral change, cogeneration, solar collectors, solar panels and wind turbines have been found to be effective in Antarctica, demonstrating that harsh environmental conditions and technological barriers do not have to limit the deployment of energy efficiency and renewable energy.

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The scientific development of wind energy based on local conditions is conducive to the urgent energy demand and environmental protection of Antarctic region. In this study, the ERA5 reanalysis data are used to evaluate the ...

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