

Master Student: Beata Bao – AUT, NZ

Research Project Title:

Comparative Market Analysis of Residential Solar PV and Battery Storage Across Countries

Project Description:

This project develops a comparative techno-economic framework to evaluate residential solar photovoltaic (PV) and battery storage systems across New Zealand, Australia, Germany, and the United States.

Using publicly available solar irradiance data from NIWA, the Australian Bureau of Meteorology, the Deutscher Wetterdienst, PVGIS, and the National Renewable Energy Laboratory (NREL), together with residential electricity tariffs and national energy policy settings, the study builds an optimisation model to identify, for each country, the PV and battery configuration that delivers the lowest household energy cost.

Supervised by

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