IS SOUTH AUSTRILIA ELECTRICITY GENERATION

SUSTAINABLE, AFFORDABLE & RELIABLE ?

THIS IS

ENERGY TRILEMMA

https://energy-trilemma.netlify.app

ENERGY TRILEMMA

PROBLEM

South Australia's high wind and solar share creates extreme wholesale price volatility and instability. The evening residual demand peak requires costly, inflexible firming capacity, stressing affordability for consumers through high retail bills and raising security risks due to heavy reliance on a smaller, essential fleet of conventional generators.

OUR PROPOSAL

- Implement a Dynamic Price Signal and Dispatchable Storage Initiative.
- Use steep Time of Use pricing to incentivize load shifting from the evening peak to the midday VRE surplus.
- Offer targeted subsidies for grid integrated batteries that discharge during peak times.

Inorder to enhancing reliablity and reducing price spikes.

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ENERGY TRILEMMA

GITHUB

DOCUMENTATION

WEBSITE - DASHBOARD

DUY, DEEVIT, ZAC

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