

How will energy storage affect the future of PV?

The potential and the role of energy storage for PV and future energy development Incentives from supporting policies, such as feed-in-tariff and net-metering, will gradually phase out with rapid increase installation decreasing cost of PV modules and the PV intermittency problem.

Can PV and energy storage be integrated in smart buildings?

The integration of PV and energy storage in smart buildings and outlines the role of energy storage for PV in the context of future energy storage options. The authors would like to acknowledge the European Union's Horizon 2020 research and innovation programme under grant agreement No. 657466 (INPATH-TES) and the ERC starter grant No. 639760.

Why is PV technology integrated with energy storage important?

PV technology integrated with energy storage is necessary to store excess PV power generated for later use when required. Energy storage can help power networks withstand peaks in demand allowing transmission and distribution grids to operate efficiently.

What factors affect the economic viability of PV storage?

Increases in retail or decreases in wholesale pricesfurther contribute to the economic viability of storage. Under a scenario where households are not allowed to sell excess electricity on the wholesale market, the economic viability of storage for residential PV is particularly high.

Are integrated PV-storage systems a major challenge for electric utilities?

At the same time, the increasing profitability of integrated PV-storage-systems may bring major challenges for electric utilities that are likely to require increased investments in technical infrastructure that supports electricity generation (Hoppmann et al., 2014).

Are battery storage investments profitable for small residential PV systems?

For an economically-rational household, investments in battery storage were profitablefor small residential PV systems. The optimal PV system and storage sizes rise significantly over time such that in the model households become net electricity producers between 2015 and 2021 if they are provided access to the electricity wholesale market.



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