Cost-effectiveness analysis of earthquake-resistant photovoltaic containers for emergency command

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What drives the cost-effectiveness of earthquake risk reduction?
Our review reveals that the key drivers of the cost-effectiveness of earthquake risk reduction are the building occupancy class(e.g.,hospital,school,or residential and commercial),the location (e.g.,high or moderate seismic hazard risk),and the performance target (e.g.,life safety,immediate occupancy).

Can benefit-cost analysis inform earthquake risk reduction decisions?
This paper reviews the state of the art in using benefit-cost analysis (BCA) to inform earthquake risk reduction decisions by building owners and policymakers. The goal is to provide a roadmap for the application and future development of BCA methods and tools for earthquake risk reduction.

Is pre-earthquake strengthening based on cost-benefit and life-cycle cost analysis feasible?
Kappos, A. J., and E. G. Dimitrakopoulos. 2008. "Feasibility of pre-earthquake strengthening of buildings based on cost-benefit and life-cycle cost analysis, with the aid of fragility curves."

We highlight the factors that influence the cost-effectiveness of building design and retrofit, as well as tactics for increasing the cost ...

Since the cost of storage solar systems and generators are almost breakeven, solar systems without fuel costs have a cost advantage in the medium and long term.

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With global seismic activity increasing by 18% since 2020 according to the 2024 Global Seismic Report, earthquake-resistant brackets have become critical for solar projects in vulnerable ...

This research includes development of best practices for resilient PV systems to ensure solar PV technologies are available when most needed--after disruptive events.

Identifying the damage to the power system is an important task in earthquake disaster assessments. Considering the importance of timeliness and accessibility, a ...

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Photovoltaic (PV) systems are widely used globally to decarbonize building energy systems. However, economic and social challenges hinder broader deployment, raising ...

While earthquake proof buildings do not exist, keeping structures intact and the inhabitants safe (or at least buying them some time) is a realistic goal for inexpensive, earthquake resistant ...

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