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Q27

Consider the following: 1. Battery storage 2. Biomass generators 3. Fuel cells 4. Rooftop solar photovoltaic units How many of the above are considered "Distributed Energy Resources" (a) Only one (b) Only two (c) Only three (d) All four Official key: D.

UPSC Civil Services Prelims 2024 · General Studies · 2 marks · Environment and Ecology

Environment, ecology, climate, biodiversity - Prelims GS Paper I.

Explanation

(a)

Only one. All four are DERs.

(b)

Only two. Under-counts.

(c)

Only three. **Rooftop solar**, batteries, fuel cells and biomass gensets are all distributed.

(d) Official key

All four. Behind-the-meter / grid-edge resources.

Summary

Official key is (d) all four. Distributed Energy Resources sit at or near the load: rooftop PV, battery storage, fuel cells and small biomass generators. None of the four is a centralised utility-scale-only category in this listing.

Related possible facts

These can be asked in a future Prelims paper.

DER

Distributed Energy Resources: small, modular, usually behind the meter or on the distribution grid.

Rooftop solar

India's PM Surya Ghar and state net-metering policies push this DER.

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