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Q99

Consider the following heavy industries : 1. Fertilizer plants 2. Oil refineries 3. Steel plants Green hydrogen is expected to play a significant role in decarbonizing how many of the above industries? (a) Only one (b) Only two (c) All three (d) None

Official key: C.

UPSC Civil Services Prelims 2023 · General Studies · 2 marks · Environment and Ecology
Environment, ecology, climate, biodiversity - Prelims GS Paper I.

Explanation

(a)

Only one. Green hydrogen is discussed for all three heavy industries.

(b)

Only two. Fertilizer, refining and steel are all hard-to-abate users of hydrogen / heat.

(c) Official key

All three. Ammonia for fertilizer, refinery hydrogen, and steel DRI / heat.

(d)

None. Each is a National Green Hydrogen Mission use-case.

Summary

Official key is (c) all three. Green hydrogen is expected to cut emissions in fertilizer (**green ammonia**), oil refining (process hydrogen) and steel (DRI / high-heat). None of the three is outside that map.

Related possible facts

These can be asked in a future Prelims paper.

Green ammonia

Hydrogen plus nitrogen; fertilizer without grey hydrogen.

Green steel

Hydrogen-based DRI as a coal-replacement path.

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