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Q60

With reference to green hydrogen, Consider the following statements : 1. It can be used directly as a fuel for internal combustion. 2. It can be blended with natural gas and used as fuel for heat or power generation. 3. It can be used in the hydrogen fuel cell to run vehicles. How many of the above statements are correct? (a) Only one (b) Only two (c) All three (d) None Official key: C.

UPSC Civil Services Prelims 2023 · General Studies · 2 marks · Current Affairs and GK

Current events, government schemes, miscellaneous GK - Prelims GS Paper I.

Explanation

(a)

Only one. All three green-hydrogen uses hold.

(b)

Only two. ICE, blending and fuel cells are all listed pathways.

(c) Official key

All three. Direct ICE fuel, blend with natural gas, and hydrogen fuel-cell vehicles.

(d)

None. Each use is real.

Summary

Official key is (c) all three. **Green hydrogen** can run in modified internal-combustion engines, can be blended into natural-gas grids for heat and power, and is the fuel for fuel-cell electric vehicles.

Related possible facts

These can be asked in a future Prelims paper.

Green hydrogen

Electrolysis of water with renewable electricity.

National Green Hydrogen Mission

India, 2023; production and use targets.

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