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Q46

Consider the following materials: 1. Agricultural residues 2. Corn grain 3. Wastewater treatment sludge 4. Wood mill waste Which of the above can be used as feedstock for producing Sustainable Aviation Fuel? (a) 1 and 2 only (b) 3 and 4 only (c) 1, 2, 3 and 4 (d) 1, 3 and 4 only Official key: C.

UPSC Civil Services Prelims 2024 · General Studies · 2 marks · Environment and Ecology
Environment, ecology, climate, biodiversity - Prelims GS Paper I.

Explanation

(a)

1 and 2 only. Sludge and wood waste are also **SAF** feedstocks.

(b)

3 and 4 only. Agri residues and corn grain are also used.

(c) Official key

All four. **HEFA** / alcohol-to-jet / gasification routes take biomass, oils, residues and wastes.

(d)

1, 3 and 4 only. Corn grain (ethanol path) is also a listed **SAF** feedstock.

Summary

Official key is (c) all four. Sustainable Aviation Fuel can be made from agricultural residues, corn (alcohol-to-jet), wastewater sludges and wood-mill waste, among other certified feedstocks. None of the four is excluded on this paper.

Related possible facts

These can be asked in a future Prelims paper.

SAF

Sustainable Aviation Fuel; drop-in or blend with conventional jet fuel.

HEFA

Hydroprocessed esters and fatty acids - a common SAF pathway.

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