

Technologically updated version of lead acid batteries will find even more use in the age of renewable and clean energy.
Elaborate. (200 words)

The governments across the world committed to phase down fossil fuel leading to other means of renewable energy or fuel cell batteries sustainable to environment.

The lead-acid batteries can be environmentally better substitute of Li-ion batteries or other which are more costly because of following reasons

(1) Lead acid batteries are 'recyclable and reusable'

(2) 'Availability of lead across the continent.'

(3) Cheaper and cost effective to its counterparts.

U.P.S.C.

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- (4) Conformity with electric vehicles, electric and electronic equipments, and utility in various fields.
- (5) It can be used to produce renewable energy like solar, and wind energy.
- (6) Developing and least developed countries can easily adapt towards their climate commitment.
- (6) Operable and stable across range of temperature.

Drawback and disadvantages

- (1) Energy density is comparatively low with respect to Li-ion batteries.
- (2) Bulky nature so can't be used across all application like mobile etc.
- (3) If not recycled and handled carefully can lead to the health hazards, which can affect cognitive analysis power.
- (4) Limited use and application.

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Thus, by using various measures like, \Rightarrow investing more in research and development.

\Rightarrow by following battery waste management Rule, based on Extended Producer Responsibility (EPR)

\Rightarrow promoting new industries for manufacturing environmentally sound lead batteries,

Lead acid batteries can easily supplement in renewable energy field and complementary lithium ion and other batteries