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Review of trends in biogas upgradation technologies and future perspectives

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Highlights

- The relevance of biogas upgradation in sustainable development is established.
- Recent advances in upgradation technologies are presented.
- Hybrid technologies are capable in solving current biogas upgradation challenges.
- Upgraded biogas is the next alternative energy for grid and vehicular application.

Abstract

efficiency and for better commercialization, it is impending not only to upgrade raw biogas but also utilize the energy value of off-gas. Currently available methods have high operating costs and are energy intensive, limiting the commercial applications of biogas. This review is aimed at presenting the state-of-art upgradation technologies currently available and the ones which are promising. It also discusses the future perspectives for overcoming the challenges associated with upgradation.

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Keywords

Sustainable development; Biogas upgradation; Bioenergy; Biomethane

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