

## Cost and Benefits of Collocation in the Use of Biogas to Reduce Vulnerabilities and Risks

**Authors :** Janaina Camile Pasqual Lofhagen, David Savarese, Veronika Vazhnik

**Abstract :** The urgency of the climate crisis requires both innovation and practicality. The energy transition framework allows industry to deliver resilient cities, enhance adaptability to change, pursue energy objectives such as growth or efficiencies, and increase renewable energy. This paper investigates a real-world application perspective for the use of biogas in Brazil and the U.S.. It will examine interventions to provide a foundation of infrastructure, as well as the tangible benefits for policy-makers crafting law and providing incentives.

**Keywords :** resilience, vulnerability, risks, biogas, sustainability.

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