Q. A project to use paddy straw to produce Compressed Biogas can transform the rural Economy of India. Discuss.

↳ Introduction

Recently a renewable Energy Revolution started, the first Bio-Energy plant of a private company in Punjab will produce Compressed Bio Gas (CBG) from Paddy straw.

↳ Biomass Power Project

↳ Co-firing Thermal Power plants - Combustion of Paddy straw Pellets and coal

↳ Feedstock for 2G Ethanol plants ⇒ Blend Petrol with Ethanol

↳ Feed stock in Compressed Bio Gas (CBG) plant)

↳ CBG as Transformation

↳ 5% CBG production target set by Government- India scheme, " sustainable Alternative Towards Affordable Transportation (SATAT)

↳ Increase local Entrepreneurship, Increase Farmers, income and reduce open burning of rice straw.

↳ Paddy residues produce CBG and fermented Organic manure will reduce 1.5 lakh tonnes of CO_2 Emissions per year

↳ Plant will produce employment opportunities to rural youth in the large value chains from paddy harvest ⇒ Baling ⇒ Transport ⇒ Handling of Biomass ⇒ CBG Plant.

↳ This will Boost rural economy of Punjab.

↳ It is a first win-win initiative in the form of Environmental benefits, renewable Energy, value addition to the economy, farmers income and sustainability

Conclusion

This initiative in the form of ~~Environmental~~ replicable and scaleable across the country and can be a game changer for the rural economy.

This initiative is an ideal example of a wealth from waste approach and Circular Economy.