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### Generation of Electricity by Osmosis

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**Abstract :** In nature there are types of energy sources are available some of them are Renewable and Non-Renewable Energy Sources, but we can't continue using several of our energy sources from where we gain energy today. As we know that energy neither be created nor be destroyed but it convert it one form of energy to another form of energy hence it's necessary that to find an energy source that can be Green and Clean energy source.

Osmotic power provides excellent environmental performance and CO<sub>2</sub> free power production will qualify for green certificates and other supportive policy measures for renewable energy. The estimated energy cost is comparable and competitive with the other renewable energy sources. For both the commercial power companies and technology suppliers Osmotic Power represent an attractive new business potential.

The paper includes how to generate electricity by using Osmotic Energy. Some of the methods includes PRO (Pressure Retarded Osmosis), Reverse Electro Dialysis(EDR)- Capacitive Deionization(CD) which would generally require two water bodies of different concentration like estuaries, lakes and ponds. Our country is blessed with 7000km of coastline and many rivers and its distributaries thus we have potential to generate electricity especially to populous cities like Mumbai, Chennai.

**Keywords :** Pressure Retarded Osmosis, Reverse Electro Dialysis.

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