

Agricultural Based Hydroelectricity Generate in Pipe Line Through

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Abstract: *Hydroelectric power is a renewable resource that provides 96% of the renewable energy in the United States. It comes from flowing water, which can be used to turn turbines and generators that produce electricity. It has played an important role in the development of the electric power industry, supplying as much as 40% of the electric energy produced in the 1920s. It is an essential contributor to the national power grid due to its ability to respond quickly to rapidly varying loads or system disturbances. In addition to photovoltaic and wind systems, nowadays in-pipe water to wire power systems are becoming particularly interesting for the integration of renewable resources at urban and building scale because of the potential to harness clean energy from excess head pressure in urban and domestic water pipelines. Able to operate across a wide range of head and flow conditions, these particular micro hydro power systems can be deployed in municipalities, energy-intensive industries and agricultural irrigation districts providing a consistent amount of clean and continuous energy without the typical intermittency of wind and solar and at the same time helping in pipelines management and maintenance. The article presents an overview of the different types of in-pipe hydro systems available on the market and illustrates their possible applications at the urban and building scale and the benefits achievable in terms of energy production compared to other renewable such as photovoltaic and wind systems.*

Keywords: Hydroelectric power.

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