Energy Generation Systems in Slow Water Streams

(10 TR 98OF 3GLM)

Abstract

A Turkish company,currently involved in aquaculture and fisheries sector wants to scale-up its activities to hydropower generation.Company carried out market research for electricity generation particularly from slow water streams.They are requesting high-tech hydropower generation systems(including turbines,generators etc.)which can be used where conventional hydropower technologies are not feasible.They are seeking partnerships for joint venture, technical cooperation or commercial agreement.

Description

Although, hydropower generation potential of Turkey is known to be promising, only around 30-40% of the potential is currently in use. In other words, there is still a high number of water streams (rivers, channels etc.) ready to be exploited by environmentally sustainable energy generation systems. Owing to that, a Turkish company, currently involved in aquaculture and fisheries sector wants to scale-up its activities to hydropower generation.

The main aim of the company is to cooperate with technology providers to take part in the energy generation sector by developing/implementing hydropower generation systems particularly low head damless technologies. The company is planning to further develop and demonstrate the technology by transnational cooperation with technology developers/providers. As it is stated by company representatives, a strategic partnership with a technology developer/provider would be beneficial to introduce the technology to Turkish energy market.

Technical Specifications / Specific technical requirements of the request

As its name implies, damless hydropower generation systems capture the kinetic energy of rivers, channels, spillways, irrigation systems etc. without the use of dams. The damless hydropower generation system requested by the company is suitable for use in very low head applications, being technologically different from the conventional large hydropower plants.

The requested system can be composed of turbines suitable for use in very low head applications and different from the francis, propeller, kaplan, or pelton types used in more conventional large hydropower plants. The turbine can composed of a horizontal or vertical axis impeller depending on the type of application.

Valid until: 17/02/2012

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