



**Turkish  
Electric  
Power**

TEP ELEKTRİK ÜRETİM, DAĞITIM ve TİCARET LTD. ŞTİ.  
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## Hydroelectric Power Plant

Hydroelectric power has always been an important part of the world's electricity supply, providing reliable, cost effective electricity, and will continue to do so in the future.

TEP serves our customer with a turnkey channel type hydro power plant. One of the major advantage of using our product is to achive cost effective electro-mechanical system. TEP has a novel way of opearting the complete system. TEP turbine does not have flow controller. Therefore the turbine has lower cost and longer operation life. Load on the shaft and utility interface and remote/local controller are performed through Power System Gateway (PSG). One other advantage of TEP's design is to have unmanned operation of the electromechanical system. However manpower only needed for security and if needed open channel clean up from leaves and branches. Within this project TEP engineered turbine, synchronous generator, and PSG. In conventional way, turbine speed is controlled by adjusting the flow.

TEP has partnership with other types (Francis, Pelton, Kaplan, Throughflow) of turbine manufacturers around the world. They could well be used instead of Banki turbine depending on the head and flow. It is again important to note that we do not need flow control device on any type of water turbine.

