

Team-SAN

Sakarya Üniversitesi / Teknokent Ana Binası No:B11 / Esentepe Kampüsü,
Serdivan / Sakarya

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TEAM: WATERFALL

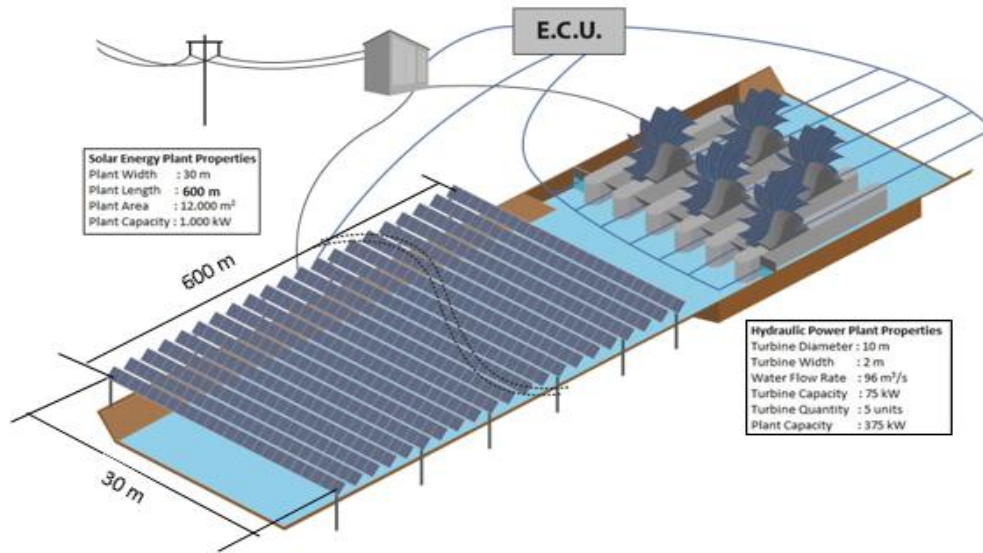
R & D Director: Bayram Hasan Yiğit

Mechanical Eng.: Murat Şahin

Energy Sys. Eng.: Ecem Karagöl

Business Description: Design, development, production, installation of hydro turbine and solar panels hybrid system to produce electricity over the irrigation channels

Product / Market Fit: Hydro turbine and Solar energy hybrid system for open irrigation channels as shown in following figure



Business Model: We will design a solar panel and a hydraulic turbine for open irrigation channels. According to our designs, we will manufacture the parts to the supplier companies. Then we will install the system and commission the system.

Customers: Energy Distribution Companies: TOROSLAR EDAŞ, MEDAŞ, AKDENİZ EDAŞ, AKEDAŞ, etc.

Technologies/Special Know-how: Increasing the water velocity by narrowing the cross section area and controlling the gates. Using direct drive new technology instead of the gear box for electricity generator.

Markets: Estimated total product quantity in Adana City: 50 units (for only 4 big channel)
Estimated total product quantity in all Turkey: 2200 units or more according to following map.

Turkey open irrigation channel map



Source: <http://geodata.ormansu.gov.tr/>

Competition: Since this application will be the first in Turkey, it will not be a rival at the beginning of the business. Then the competitors will be appeared.