

CASE STUDY



Renewable Energy Solutions



Devstringx Technologies

Devstringx Technologies (www.devstringx.com), Leader in Product Development, Mobile Apps Development and Independent Software Testing Services, headquartered at Noida, India. Devstringx is ISO 9001:2015 certified and also a NASSCOM member.

About Client

Our client provides renewable Energy solutions to the domestic and overseas customers .

They develops a new integrated hybrid power solution , solar power solution , solar-DG hybrid power solution. It offers wind products , such as small wind turbines and residential wind turbines. They also provides solar products , including sharp solar panels and evergreen solar panels. In addition , it offers solar heating products, such as evacuated tube solar collectors and solar thermal systems.

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Key Challenges

- One of the challenge was to read the data from machine into the app via bluetooth and send it to the cloud to generate push notification .
- Another challenge was to parse the data in mobile app itself as per the PLC code in order to format and send the SMS.
- One of the major challenge was to make the app as simple and usable as possible because the end users are not well educated and are not much habitual to mobile apps .



Solution

- We have made the app workable in offline mode so that data read from machine via bluetooth can be sent on AWS sever as soon as connectivity is restored .We used third party library to read the data via bluetooth.
- We used AI in various scenario so that we can perform various operations bassed on data received via bluetooth and SMS and prompted user with various informative messeges wherever applicable so that user can use the app effectively .

Advantages of Renewable Energy Solutions

- It operates with solar energy.
- No electricity , no diesel required.
- Very low maintenance and repair costs.
- The sunlight pump can be directly connected to a solar PV panel between 100 to 400 Watt or to a battery .
- Very compact design design (L575mm x W200mm x H270mm) and low weight (11.5kg) make the sunlight pump portable which allows for sharing of the pump among farmers and easy positioning in the field
- No CO2 emissions.