

Project Report Flow(2022-05 - 2022-06)



Objectives

Design and develop a platform that will manage reporting generation for clients based on several input sources

- Automatically collect data from different sources
- · Automatically recalculate when new data is received
- Support editing/correction for data input and do live view when data is changed
- Generate a monthly report in PDF automatically when new data is received or data is corrected
- Send PDF report from the web interface to emails

Challenges

During development there was a challenge how to import data from different sources and convert it into an internal format. We solved this with data creating services that fetch data in a scheduled manner

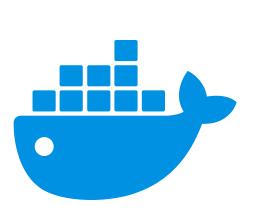




Technologies



Python



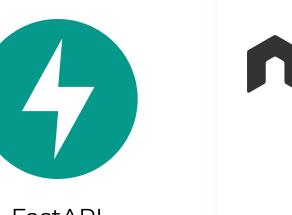
Kafka

Docker



Postgres





FastAPI

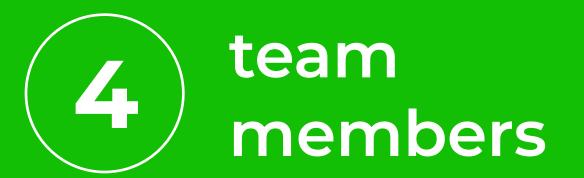


React



NodeJS

Timeline & Team





https://www.greentec-services.com/en



Specialised reporting software for a sustainable future

The transition to renewable energy has never been more important. Solar power plays a central role in fulfilling our energy needs.

greentec services is a specialized service provider in the technical management of solar power systems.

They are experts at the maintenance, monitoring, analysis and reporting for complex operations. Currently operates around 180 ground- and roof-mounted systems with a peak power of approximately 240 MWp.

greentec services customers need to identify problems as soon as they occur. They need to react fast, prevent downtime and ensure optimal efficiency.

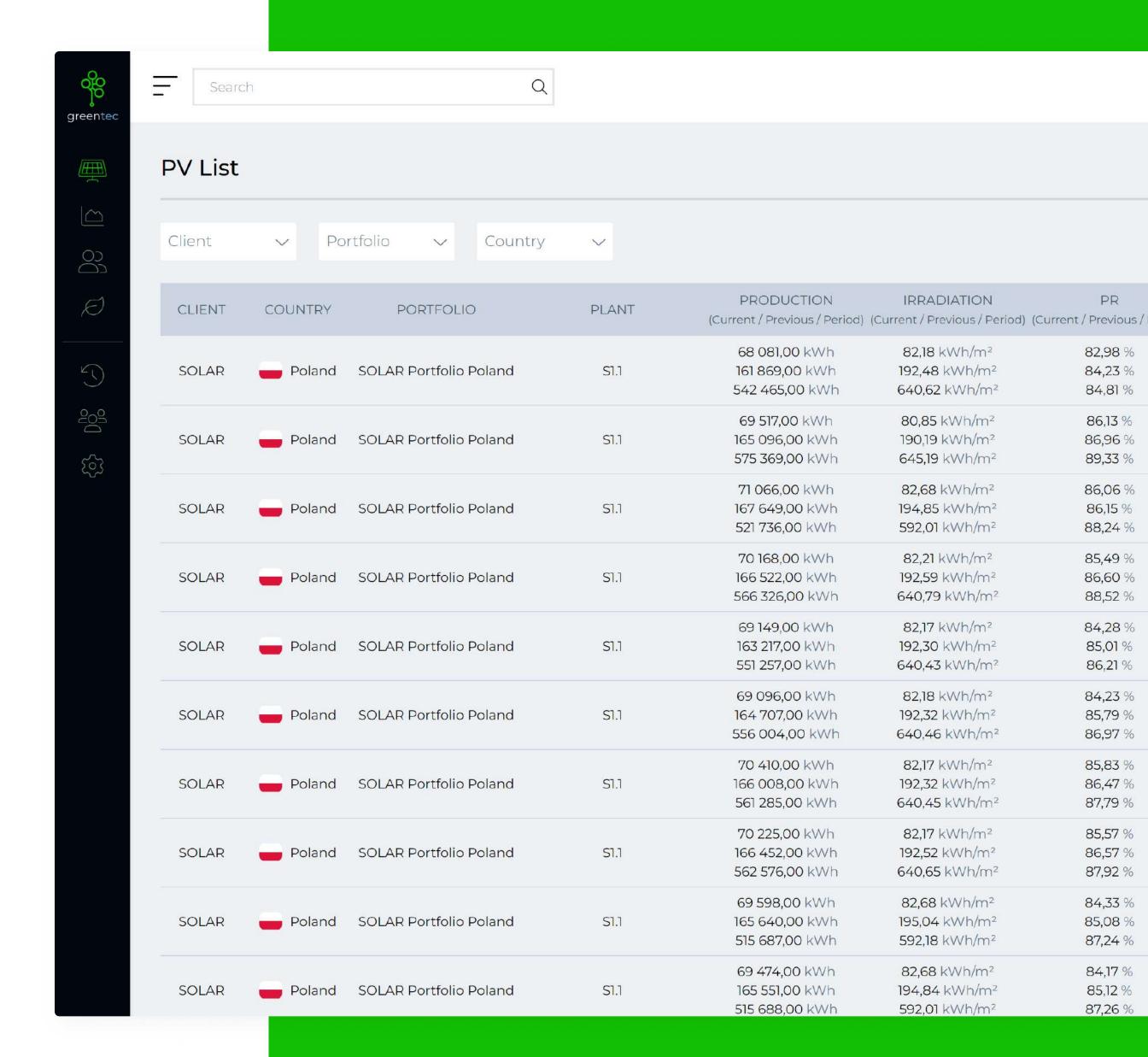
greentec services collects millions of data points every month from its customers. They perform fine output analysis to identify even the smallest changes and identify issues. The tiniest fluctuations can be indicators of larger problems. The faster you see them, the better you can react.



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- But how do you turn millions of data points into clear, actionable intelligence?
- How do you see discrepancies in millions of lines of numbers?
- How can you react to anomalies if you can't see them?





Enter Belicherg Software.

Belichberg designed and built completely new data management and reporting system for greentec services.

They centralized the storage of data points from various sources.

They then designed a data processing system that converts this data into ready-to-use formats to be used in the greentec services reporting.

Next, Belichberg built a customized ergonomic reporting dashboard with automatic notifications and PDF creation.

A clear, transparent reporting overview allows greentec services to monitor performance, identify problems and provide their clients with detailed, practical performance reports at the click of a button.















The new reporting system designed and built by Belichberg is robust, fast and scalable.



The transition to sustainable electricity production can accelerate at speed, safe in the knowledge that the installations are being used as efficiently as possible.

Turn your business idea into reality, on time, and on budget