ARTIN

ARPEG

ARP ELEKTRO GROUP S. R. O. (ARPEG)

CASE STUDY

ENERGY & PHOTOVOLTAICS | SOLAR PLANT MANAGEMENT | WEB, MOBILE, IOT

ARPEG designs, installs and services photovoltaic solutions for households and businesses. It needed software that would turn a solar power plant into a truly smart device – remotely controllable, able to respond to the electricity market and meaningfully connected with the whole household.

In under two years, we built ARPEG a complete web and mobile app ecosystem from scratch (React, React Native, Azure) that enables remote control of PV installations, automatic optimization against electricity spot prices and integration with inverters from multiple manufacturers – all under one roof instead of five fragmented solutions.

CHALLENGE

ARPEG came to ARTIN after working with a small vendor that couldn't handle the project – it missed deadlines, went over budget and hit the limits of its capacity. And the product wasn't just a technical challenge: it meant connecting hardware from different inverter manufacturers (each with its own API), integrating with the CRM, building a customer portal and preparing for community energy sharing. All coordinated across five external parties at once.

SOLUTION

- **Web and mobile app** for real-time monitoring and remote control of PV systems
- **Intelligent energy management** – automatic battery charging/discharging based on a 24h electricity spot price forecast
- **Integration with multiple inverter brands** – one interface instead of their limited, poorly translated apps
- **Switching household appliances** – boilers, air conditioning, wall boxes, smart plugs
- **Customer zone connected to the CRM** – installation tracking, service orders, referral program
- **Business consulting** – help with product pricing, go-to-market strategy and the product roadmap

TEAM SIZE

6–10 ARTIN people: project manager, business analyst, 3 developers, UX designer, QA

TECHNOLOGIES

React · React Native · TypeScript · Kotlin · Python · SQL · Spring MVC · Azure · REST API · Webhook API

PROJECT DURATION

January 2024 – present (ongoing) · Contract value: Confidential

WHAT THE CLIENT VALUED MOST

ARTIN took on the role of coordinator for the whole project – connected five external parties, set up regular communication and freed ARPEG to focus on its own business. No babysitting, no excuses.

"Working with ARTIN has been a perfect fit for us. I shared my vision and their team turned it into reality – they built a mobile app that saves our clients money and increases their satisfaction with our services. They dug into the problem and proved they are true experts we can rely on one hundred percent."

Aleš Kneifel, Founder and Managing Director, ARPEG · Clutch: 5.0 / 5.0

VENDOR FALLING BEHIND OR NOT DELIVERING?

We'll show you what it looks like when it works.