Renewable Energy Solutions

Our impact

iTERATIVE
ENGINEERING

1. Why Renewable Energy is so important?

+ Renewable energy is becoming **increasingly vital** and is the key to a more **sustainable future** of the energy industry. The **opportunities** it present are enormous, as according to Bloomberg there is a need of **$1.3 Trillion per Year** of investments by 2030 to achieve Climate Goals.

+ Green energy is a **key element** for building overall solution to **energetic independence and security** of EU* and its countries. Energy crisis caused by number of external factors clearly proved that depending on fossil fuels is not viable long term.

* REPowerEU: A plan to rapidly https://ec.europa.eu/commission/presscorner/detail/en/IP_22_3131
* Renewables Need $1.3 Trillion Per Year by 2030 for Climate Goals
https://www.bloomberg.com/news/articles/2022-10-06/investment-in-renewable-energy-needs-to-quadruple-by-2030

2. What kind of challenges have we spotted?

+ A **central challenge** is the dependence of energy generation on local weather conditions (sun or wind). This makes it **difficult to plan**, which has an impact on **efficiency and costs**.

+ During number of interactions within professional network we have observed **increasing need in**:

- providing better **oversight** on operations
- improving energy consumption **predictions**
- **preventing** unexpected downtimes
- improving maintenance **transparency**

3. What kind of solutions we propose?

\+ **Our experience** with building digital products for upstream Oil & Gas sector, where many of the operational challenges are analogous, **helped us to envision following** solutions:

- **Assets & Process Oversight** - ensure that things are in order from high level overview to direct details thanks to Digital Twin
- **Maintenance Unburden** - keep clear track record of workorders, work permits and notifications, combined with information about spares, orders and shipments.
- **Consumption Forecast** - build better understanding on energy demand and maximize your earnings by producing at the right time and at the right amou
- **Safety Overview** - get better awareness of risks and impairments (current and historical) happening at your assets
- **Utilization Optimizer** - automate decision making if to use off the grid or produced or stored energy - maximize savings based on various factors such as price, weather, timing, etc.
- **Preventive Maintenance** - monitor core components - through statistical and AI/ML driven analytics of sensor & instrumentation readings - detect failures before they occur and avoid unexpected shutdowns

4. How much does it cost?

Digital Product Workshops with UX/UI Design

- Timeline 1 month
- Price 6 000 EUR

Proof of concept (PoC)

- Timeline 1 month
- Price 10 000 EUR

Minimum Viable Product (MVP)

- Timeline 3 month
- Price 30 000 EUR

5. How to take a next step?

Steps to take toward digital evolution:

1. We invite you to schedule a call with us where we can discuss our proposal, identify your needs.
2. We prepare and introduce you our solution and commercial offer.
3. We finalize agreement and schedule a plan of implementation
4. We start execution of the project with your oversight.
5. We implement the project, support and maintain it.

Schedule a call with us

Thank you!