



**Respect Energy Holding S.A.** is one of the largest energy companies in Poland with mission to innovate the green energy industry across Europe. We are a producer, seller, and purchaser of energy from renewable energy sources (RES). We sell exclusively 100% green energy. **Respect Energy Holding S.A.** is part of the Respect Energy Capital Group. We cooperate with a group of more than 1,000 power generators and we operate in 24 markets.

We had the pleasure of collaborating with **Database Consulting sp. z o.o.** (dataconsulting.pl) on the implementation of the geographic information system, Ziemia Obiecana® (Promised Land®). This advanced tool for spatial data analysis enables the identification of optimal locations for construction investments based on individual client guidelines and requirements, utilizing AI for document analysis. The system allows for the analysis of spatial data and government regulation documents on a country-wide scale through a user-friendly, browser-based interface. It also supports the integration of results and analysis with external tools (e.g., QGIS).

**Database Consulting sp. z o.o.** was indispensable in both the comprehensive design of the solution architecture and its overall implementation using Snowflake Data Cloud and AI. Their expertise was crucial to the project's success. Thanks to the innovative methods of data representation, processing, and advanced analysis (including AI) proposed by **Database Consulting sp. z o.o.**, a scalable and flexible system was created. This system enables efficient handling of large volumes of data with minimal infrastructure outlays.

#### Key functionalities of the system:

1. **Location identification and analysis based on guidelines** — Detailed results analysis, creation of land rankings, and support in the decision-making process.
2. **Development of thematic maps and analyses** — Including graphic maps, interactive maps, and generating statistics and reports.
3. **Searching and prioritizing legal documents (development plans)** — To identify areas that permit a certain type of investment.
4. **Automatic optimization of wind turbine placement** — In a specific area based on configurable criteria to maximize return on investment.
5. **Optimization of linear infrastructure routes** — Based on the analysis of field obstacles and configured optimization criteria to increase return on investment.

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Energy created with respect for nature!

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**Sample technical solutions:**

- **Automated data loading of large volumes of data** — streamlined the integration process from various sources.
- **Massive vectorization of raster data using a dedicated module** — enabled efficient processing and analysis of vector data.
- **Development using Snowflake, Python, Streamlit and Snowpark** — facilitated advanced data handling and visualization.
- **Optimization and routing of vector and raster spatial data** — improved data efficiency and accuracy.

The development of solutions that automate the work of GIS experts has significantly increased the efficiency and scalability of operations. As a result, our clients can rely on precise and rapid results, supporting them in selecting the best locations for investments and in other processes where spatial data is crucial.

**Respect Energy Holding S.A.** highly recommends **Database Consulting sp. z o.o.** as a professional and trustworthy partner for executing advanced projects in geographic information systems, document processing, business optimization, data, and AI.

**Tomasz Zadroga**

  
Członek Zarządu

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