Idnamic S.L. Enhances Renewable Energy Engineering with ZWCAD's Precision and Cost Efficiency

INDUSTRY
Renewable Energy Engineering

PRODUCTS
Comprehensive wind energy services, including installation, maintenance, wind profiling, site assessment, and data analysis for wind farms

WEBSITE
https://redes3d.com/en/

CHALLENGES

- The need for a cost-effective CAD solution without losing key functionalities
- Complex georeferencing tasks to transfer real-world locations into precise plans
- Accurate measurements for cables, towers, and annotations in demanding projects

SOLUTION

ZWCAD

RESULTS

- Reduced CAD software costs significantly while meeting engineering needs
- Streamlined workflows for geospatial data integration with ZWCAD and Spatial Manager
- Delivered high-quality results in high-stakes projects like Repsol Puertollano

Inside Idnamic S.L.'s office in Zaragoza, engineers gather around a table covered with maps and site plans, focusing on refining the details of their next wind farm project. "Our mission is to help wind farms succeed by providing high-quality meteorological data through the installation of measurement towers," explains David Camacho Barcelón, an engineer at Idnamic S.L., pointing to the carefully marked placements of wind towers on the map.

These towers are critical for measuring wind conditions, helping to determine the best locations for turbines, and ensuring they perform efficiently. By providing essential data for planning and monitoring, Idnamic plays a key role in advancing renewable energy and supporting the transition to cleaner power sources in various countries.

Meteorological towers by Idnamic for wind farm operations

Since its founding in 1994, Idnamic has been a driving force in the renewable energy industry. The company expanded its operations to Spain in 2004, when it has played a key role in installing wind measurement towers and managing complex infrastructure for wind farms across Europe and around the world. Certified for quality and safety, Idnamic's expertise lies in laying the groundwork for renewable energy—ensuring every detail aligns with industry standards.

Embracing ZWCAD to Balance Functionality and Cost

By 2020, Idnamic faced a critical decision: the existing CAD software they were using at that time was functional, but the rising costs made it increasingly unsustainable. After evaluating alternatives, the team decided to adopt ZWCAD, which is grounded in functionality and cost-effectiveness.

"Since I joined Idnamic, we've worked with ZWCAD," shares Camacho. "My supervisor decided to replace AutoCAD with a more economical alternative. We considered it, gave it a chance, and ultimately chose ZWCAD as our preferred CAD."

Camacho emphasizes how ZWCAD met their needs without requiring additional resources or steep learning curves. "I supported the decision from the beginning. It was more affordable, met all the requirements we were looking for, and honestly, the result has been fantastic." This straightforward

solution allowed Idnamic to focus on their projects without being hindered by excessive software costs or unnecessary features.

Empowering Repsol's Wind Farm and Delivering Success Across More Projects

With ZWCAD fully integrated into their workflows for wind energy installations, Idnamic quickly began using it on real-world projects, including the Repsol Puertollano wind energy installation. As one of Spain's leading energy companies, Repsol's projects demand high standards of precision and efficiency, making it a significant milestone in Idnamic's portfolio. Located in Ciudad Real, this project required meticulous planning, from aligning tower placements with real-world coordinates to annotating cable diameters and access routes.

"The most complex thing we do is transferring locations to the plans and determining the diameters of the cables, towers, and other annotations. ZWCAD makes these tasks manageable," Camacho explains. Using ZWCAD's intuitive drafting and measurement tools, the team efficiently turned field data into precise, actionable designs.

For engineers like those at Idnamic, tackling these challenges often means relying on specialized tools to get the job done. ZWCAD's ability to seamlessly integrate with leading plugins makes it an essential platform for professionals in demanding fields like renewable energy engineering. The team routinely pairs Spatial Manager with ZWCAD to handle geospatial data integration, enabling them to overlay geographic data onto CAD drawings, export KMZ files, and ensure precise alignment with real-world conditions.

"As a result, the outcomes have always been excellent. ZWCAD allows us to work quickly and accurately, which is essential for this type of work," Camacho adds. On-site, the designs translated seamlessly into construction. Engineers used the plans to position towers with precision and confidence, ensuring everything was aligned as intended.

A Long-term Trusted CAD Solution for the Future

As Idnamic continues to expand its presence in Spain's renewable energy sector, ZWCAD remains an essential part of their toolkit. Its intuitive design and cost-efficiency allow the company to take on increasingly ambitious projects without compromise.

Installation on a Gas Extraction Platform in the Adriatic Sea

"Honestly, I don't miss AutoCAD at all," reflects Camacho. "For what I need, ZWCAD is more than sufficient. I can't find a single fault with it".

With a growing pipeline of projects and a commitment to sustainability, Idnamic is well-positioned to push the boundaries of renewable energy engineering. Whether designing wind towers or planning future infrastructure, ZWCAD ensures that every detail is executed with precision and care.