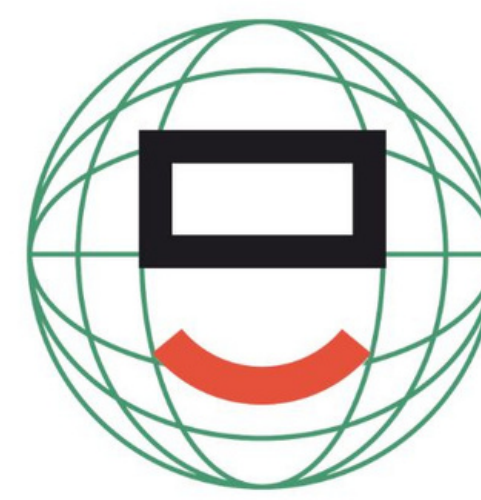


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HIVEMIND TECHNOLOGIES

STATE OF THE ART SOFTWARE ENGINEERING, CONSULTING & DEVELOPMENT



GREEN TECH PROJECT PORTFOLIO

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➤ State of the Art Software Solutions for Sustainable Businesses

At Hivemind Technologies, we are committed to driving innovation and sustainability in the green tech sector. Our advanced solutions empower leading companies to overcome significant challenges and optimise their operations through cutting-edge technologies. Here is a selection of some of our impactful projects with industry giants and scale-ups such as Siemens, E.ON Drive Comfort (formerly Elvah), Zenobē Energy, and Senec of En.BW. These case studies illustrate our expertise in implementing high-performance, scalable, and reliable solutions tailored to the unique needs of each client.



— Client Profile

Siemens (now Siemens Energy) provides power generation, renewable energy, and transmission solutions.

— Problem

[_The Problem Our Client Had:]

Our client faced significant challenges with their existing anomaly detection system in their electrical grid network. The previous operator-based approach relied heavily on manual assessment and experience, which was time-consuming and prone to errors. The lack of real-time simulation capabilities hindered the ability to anticipate and mitigate potential issues promptly. The client needed a faster and more accurate solution to enhance their anomaly detection and response capabilities.

— Solution

[_The Solution We Delivered:]

Hivemind developed an advanced anomaly detection solution using Apache Kafka and Apache Spark, processing 3.6 million data points per second. This real-time system identifies anomalies in current and voltage metrics and includes a mechanism to fingerprint anomalous data sets for scenario simulation. This automated, real-time solution significantly improved the customer's ability to manage and respond to potential grid issues.



—Client Profile

Zenobē Energy specialises in fleet electrification and energy storage, providing infrastructure for electric vehicles and large-scale battery storage solutions.

—Problem

[_The Problem Our Client Had:]

Our client Zenobē experienced occasional outages in their smart charging system, affecting the reliability and efficiency of their electric fleet operations. To address these issues, Zenobē required a robust and scalable solution to stabilise and enhance system performance.

—Solution

[_The Solution We Delivered:]

We stabilised and replatformed Zenobē's smart charging solution using edge and cloud computing platforms. This included security enhancements and the implementation of data streaming and analytics. This solution improved the reliability of their electric fleet operations, ensuring stable and scalable performance.



— Client Profile

E.ON Drive Comfort (formerly Elvah) offers e-mobility solutions with access to over 300,000 EV charging points across Europe.

— Problem

[_The Problem Our Client Had:]

The main obstacles to the spread of electric vehicles (EVs) are range anxiety and inconsistent availability of charging points. Our client was looking for a solution that would provide users with accurate, real-time information on the quality and availability of charging points to increase the uptake of EVs.

— Solution

[_The Solution We Delivered:]

Hivemind implemented a scoring solution for Elvah that uses real-time and historic session data for all charge points in Central Europe, leveraging machine learning-based predictions to allow users to determine the availability and quality of charge points at any given time. Hivemind implemented the training models and an MLOps delivery pipeline and a RESt endpoint for serving near-real-time predictions using Apache Spark, Spark ML and microservices running in Kubernetes on AWS.



— Client Profile

Senec focuses on smart energy solutions, offering solar power systems and energy storage solutions for households and businesses.

— Problem

[_The Problem Our Client Had:]

Senec's energy legacy storage logging platform needed to be upgraded to meet modern standards. The existing system faced challenges with permissions management, log formatting and a subsequent limited platform search function, impacting the operational functionality and usability of the system.

— Solution

[_The Solution We Delivered:]

We upgraded Senec's platform to a centralised metering and log collection system with real-time reporting and analytics. The solution involved migrating to Kubernetes on Azure, implementing the Elastic Stack, and automating client conversion with Ansible and Terraform. The new log system, using OpenSearch, Vector.dev, Kafka, Prometheus, and Kubernetes, features single sign-on (SSO) with Azure AD. Technologies included Azure Cloud, AWS S3, Flink, HashiCorp Vault, ArgoCD, and Gitlab Pipelines.

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With these projects Hivemind Technologies demonstrates its commitment to sustainability and technological advancement by providing tailored solutions that address the specific challenges and needs of clients in the Green Tech sector.

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