AESC Giga Factory

Support the AESC project management team on its commission to build an advanced car battery gigafactory at the International Advanced Manufacturing Park (IAMP) in Sunderland.



Services

- Data insight & analysis
- Integrated project controls
- Training & development
- Digital transformation

the challenge

Envision AESC has appointed Wates Construction and Turner & Townsend to lead design and project manage the build of its advanced Gigafactory at the International Advanced Manufacturing Park (IAMP).

The site spans some 50 hectares of land in South Tyneside and Sunderland, and the Gigafactory is part of a partnership between Nissan UK and Sunderland City Council, aimed at developing the next generation of electric vehicle production - critical to decarbonising UK manufacturing and transport.

At the start of this project, reporting on the project was done individually by different project areas, requiring significant manual processing to bring this into a single report for high-level stakeholders. The time required for this processing was 3 weeks, meaning that any data shown in this report was at least 22 days old before stakeholders had even seen it.

Our primary goal was to design, develop and implement a reporting system with minimal disruption to business-as-usual (BAU) processes.

The Design & Build sections of the project ran parallel throughout the entire 12 weeks, requiring maximum agility to respond to changes in requirements while keeping all key stakeholders engaged and informed.

Employing over
1,000 people
when **operational**
in Q1 **2025**.

100% net zero
carbon energy, will produce
the **latest generation batteries** to power
100,000 electric
vehicles annually.

Delivering a
six-fold increase
in **UK** electric vehicle **battery production** in the **UK.**

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the solution

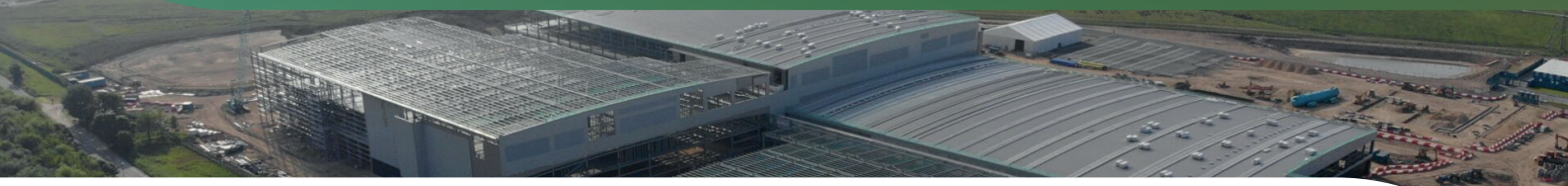
We supported the client in drafting and implementing its project reporting data architecture into a well-structured centralised project controls reporting hub, leading to better collaboration and transparent communication. We reinforced this by engaging client management leads via a series of workshops, during which all comments were captured, analysed, responded to and carefully closed out.

We proposed a pragmatic approach to capturing data, allowing automated reporting on key performance indicators (KPI) of project delivery. All the KPIs were then defined, discussed and documented based on project requirements. The reporting system is not limited to metrics and KPIs but also allows capturing narratives and contents on design and delivery.

The GIGA reporting hub therefore provides AESC with:

- Integrated design and construction technical reports with other vital functions (e.g. schedule and change management).
- Data verification and validation prior to reporting.
- Specific user groups with different levels of access to the site.

Another critical success factor in the project was identifying an accurate critical path for the whole programme as well as for each key output.



the impact

The new portal transformed the way that the project teams interacted with its client and each other during a very deadline driven period, allowing for closer collaboration on the project risks and opportunities in a shared space.

Benefits for the programme included:

- Project data transparency significantly increased, giving stakeholders an accurate view of project status in real-time.
- An automated reporting system provides a single source of truth and reports with refresh dates showing when the information was last updated.
- A user-friendly and quickly adopted system provides controlled and secure access for stakeholders to store, update, and maintain data.
- A reporting system capable of being agile, fully integrated and dynamic.
- Providing timely, decision enabling information to key stakeholders to support the delivery of the project.
- Training and upskilling their internal teams with all the necessary levels of system interaction and knowledge to continually improve the quality of outputs.

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