CASE STUDY

VOLVO CE HAULERS: ENERGY EXCELLENCE AND ISO-DRIVEN PERFORMANCE IMPROVEMENT

CLIENT: VOLVO

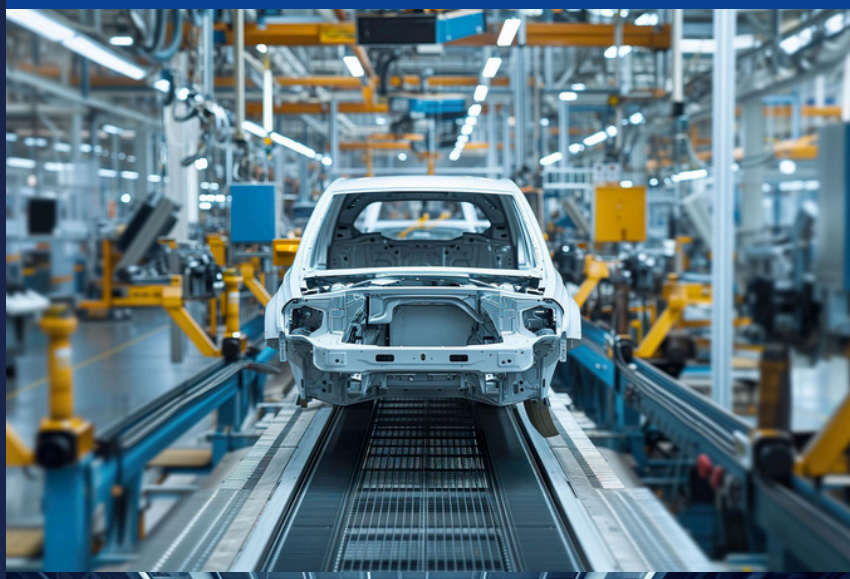
LOCATION: UK

Highlights:

- ISO 50001 leadership
- Energy performance gains
- ESOS compliant audits

THE CHALLENGE

Working alongside Volvo EHS and engineering staff, our sustainability consultants and energy engineers supported Volvo with ISO 50001 Energy Management Systems and ESOS Compliance. The site has gained and retained certification, and is supported for continual improvement of energy performance.



info@arthian.com

www.arthian.com

+44 (0) 3301 200 151

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THE CHALLENGE (continued)

Arthian supported high energy user Volvo (based in Motherwell, Scotland) to develop ISO 50001 energy management systems, taking into account energy compliance and reporting. Volvo is EU (Swedish) owned with ESG reporting requirements for which the energy use and performance at the Motherwell site is an important input. Initially Arthian planned and completed an ISO 50001 Gap Analysis and using the results to develop an action plan and timeline with recommended resources for implementation.

Arthian developed an Energy Baseline, identified significant energy use (SEU), and used data and site audits to develop meaningful Energy Performance Indicators (EnPI's) and visual dashboards.

Using energy audits and opportunities identification from our Chartered Engineers and Energy Engineering consultants, plans to achieve reductions/ improvements in enery performance data were established with calculated anticipated kWh reductions. Audits are compliant with ESOS (EU Energy Directive equivalent in the UK), completed for Phase 3 most recently, which has been accepted by the authorities together with annual report updates provided.

THE SOLUTION

Good practice levels for energy management were established with Arthian advisory support, together with the recommended targets for reductions/ energy performance improvements based on calculated savings rather than any arbitrary % or figure. Monitoring, measurement and analysis/targeting was enabled through MM&T data and intelligent analysis by the Arthian Energy consultant team, working with site Facilities leads and EHS Manager.

Training and upskilling support was provided by Sustainability and Energy Consultants to the on-site team, supporting the development of understanding of the requirements of the ISO 50001 system and further getting an Energy Champions Team trained up and with specific actions and tasks to complete for housekeeping, maintaining good practice and having a feedback mechanism for energy savings opportunities identified by shop floor staff.

THE SOLUTION (continued)

Arthian provide both internal auditor training for the in-house team and have supported with delivery of Internal Audits and coaching on-site staff in auditing skills. Improvements are continually identified and implemented, and over time the site has also been guided by the Arthian team to undertake re-baselining (as the savings achieved already demonstrated good practice controls and therefore the next level of ambition in performance was supported.

The Volvo team are supported with monthly site visits and support, with the remit having been expanded from ISO 50001 focus only to also include ISO 14001 environmental management support.

"We have worked with Arthian for a number of years, everything is very well structured with a clear scope and costs, nothing ever seems to be a problem, and there is always someone to help. Arthian provides us with a resource boost and access to competent advice, which we don't necessarily hold inhouse. From a legal compliance viewpoint, an external review provides a level of assurance on adherence to standards and 'check' we are on the right track."

Karen Anne Duffy, HSE & Sustainability Manager

info@arthian.com

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