

Energy Management Excellence

Twenty-five services across five disciplines — energy management systems, performance baselines, process and utility optimisation, business case delivery and decarbonisation.

Energy Performance Maximisation

AVC Engineering is a technical consultancy for asset-intensive operations across oil and gas, refining, petrochemicals, fertilisers, power, renewables and mining. We work from London, Aberdeen, Abu Dhabi and Cairo.

Energy is one of the largest controllable operating costs in a process plant, and one of the few that also carries a carbon consequence, a regulatory exposure and a financing condition.

SEC.01 · 3 Energy Management Systems and Governance	SEC.02 · 5 Energy Performance Baseline, Data and Diagnostics	SEC.03 · 9 Process and Utility System Optimisation
SEC.04 · 4 Opportunity Development, Business Case and Delivery	SEC.05 · 4 Decarbonisation and Net-Zero Energy	25 SERVICES 5 SECTIONS

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SEC. 01

Energy Management Systems and Governance

Energy performance improves and then decays unless something holds it in place. These three services build the strategy, the management system and the honest assessment of how far the organisation has actually got.

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| 01 | Energy Management Strategy, Policy, Governance and Target Setting |
| 02 | ISO 50001 Energy Management System Development, Implementation and Certification Support |
| 03 | ISO 50001 Gap and Maturity Assessment — Energy Management Health Check |

SEC. 02

Energy Performance Baseline, Data and Diagnostics

You cannot manage what you have not measured, and most sites have never measured it properly. These five services establish where the energy goes, what good looks like, whether the data can be trusted, and where the losses are.

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| 04 | Energy Review, Energy Balance and Significant Energy Use Assessment |
| 05 | Energy Baseline and Energy Performance Indicator Development |
| 06 | Metering, Sub-Metering and Energy Data Quality Assessment |
| 07 | Energy Benchmarking and Performance Gap Assessment |
| 08 | Industrial Energy Audit and Energy Performance Diagnostics |

SEC. 03

Process and Utility System Optimisation

Where the energy is actually consumed and lost. Nine studies covering the process itself, the heat recovery network, each major utility system, and the equipment degradation that quietly raises consumption every year.

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| 09 | Process Energy Optimisation |
| 10 | Heat Integration, Pinch Analysis and Waste Heat Recovery |
| 11 | Steam and Condensate System Optimisation |
| 12 | Fired Equipment Efficiency — Boilers, Furnaces and Heaters |
| 13 | Rotating Equipment and Motor-Driven System Optimisation |
| 14 | Compressed Air, Cooling, Refrigeration and HVAC Optimisation |
| 15 | Electrical System and Power Demand Optimisation |
| 16 | Site Utility System Optimisation and Utility Balance |
| 17 | Equipment Operating Efficiency and Maintenance—Energy Optimisation |

SEC. 04

Opportunity Development, Business Case and Delivery

Turning identified savings into funded projects and then into verified performance. Four services covering the path from opportunity register to a benefit the finance function recognises.

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| 18 | Energy Conservation Measure Identification, Screening and Prioritisation |
| 19 | Techno-Economic Feasibility and Investment Appraisal |
| 20 | Energy Improvement Programme and Implementation Roadmap |
| 21 | Measurement and Verification and Benefits Realisation |

SEC. 05

Decarbonisation and Net-Zero Energy

Energy efficiency is the first and cheapest abatement lever, and the one most often skipped in the rush to new technology. These four services build the energy-led route to a credible decarbonisation position.

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| 22 | Energy-Related Emissions Reduction and Carbon Abatement Prioritisation |
| 23 | Renewable Energy Integration Assessment |
| 24 | Electrification and Fuel-Switching Studies |
| 25 | Industrial Decarbonisation and Net-Zero Energy Roadmap |

PERFORMANCE, NOT PAPERWORK

ISO 50001 is a performance standard

The organisation must demonstrate continual improvement in energy performance, not merely that it has a system. Systems built to pass an audit fail that test at the first surveillance visit.

DELIVERED TO

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|----------------|----------------------|-----------|
| ISO 50001:2018 | ISO 50002 | ISO 50004 |
| ISO 50006 | ISO 50015 | EN 16247 |
| IPMVP | ISO 14414 | ISO 11011 |
| API 560 | Solomon benchmarking | |

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