

Independent decarbonisation project development service

Is your business delaying its decarbonisation plan implementation?

This can lead to:

Creating a large gap to target which narrows site options too early.

Delaying delivery Vs. target which forces hasty and expensive outsourcing.

Incurring additional opportunity cost for earlier utility reduction.

Oversized, stranded assets, locked-in high carbon-emitting solutions.

These are avoidable with the right expertise and process.

This service gives you:

Independent, holistic support from concept design to project delivery and verification

No-regret concept designs, aligned with your decarbonisation, avoiding stranded assets

A fast-track to competitive tender stage with independent, developed and costed designs

A technical specification output which is easy for the procurement team to use

We provide holistic technical support from project concept...

Concept design



Developed design



Competitive tender process



Detailed design and build

Deliverables:

RIBA/ BSRIA stage 2 design
Feasibility study with project cost accuracy $\pm 30\%$
Costed plan with clear energy and carbon benefits

Benefits:

Avoids stranded assets
Allows internal allocation of funds

Deliverables:

RIBA/ BSRIA stage 3 design
Detailed scope of works
Project cost accuracy $\pm 20\%$

Benefits:

Higher certainty of project costs with client involved throughout the process
Allows submission for CAPEX

Deliverables:

Technical specification with key performance criteria for each solution
Development of supplier assessment benchmarks

Benefits:

User-friendly specification output to run a competitive tender process
Tailored assessment benchmarks against which suppliers can be compared

...through to delivery and verification

Competitive
tender process



Detailed design
and build

Deliverables:

Technical review of detailed and issue-for-construction designs
Assessment of supplier adherence to key technical performance criteria during construction

Benefits:

Project delivered to technical specification avoiding unnecessary delays



Monitoring and
verification

Deliverables:

Development of Monitoring and Verification (M&V) plan
Provision of online platform ([MyVerco](#)) to track project performance benefits

Benefits:

Provides credibility and trust to the design and procurement process
Ensures that contractors and providers meet their guarantees



Project review

Deliverables:

Quarterly maintenance of up-to-date project implementation plans through online platform ([MyVerco](#))
Annual strategy review of asset replacement

Benefits:

Lessons from project captured for replication across client operations
Confirms long term reduction strategy still optimal for site

Why Verco



Independent

We are technology agnostic, we have full access to the market and critically assess solution providers. You'll get value engineering and solution specification that is independent and optimised for performance and cost.

Responsive and experienced team

Unlike large providers, we have an agile and responsive team of specialists for the job. We are thought leaders in heat decarbonisation, able to bring in critical thinking and real-world solutions.

Impressive results

Our net zero ambitions match those of our aspirational clients and the impressive results that we are achieving together speak for themselves.

[Take a look at our case studies](#)

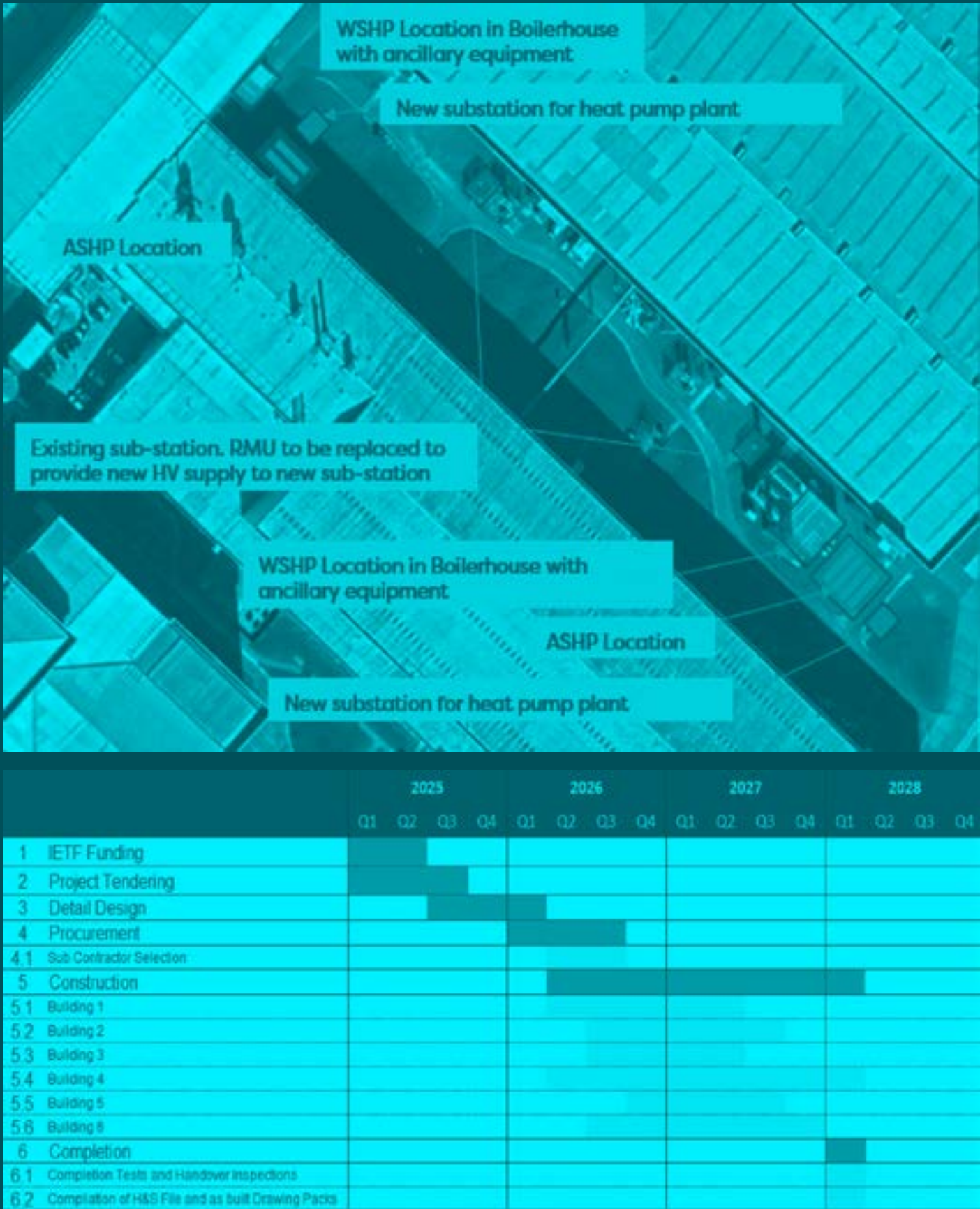
Major aerospace manufacturer: concept design for £120m electrification investment

Verco scope of support

- Development of energy and carbon reduction roadmaps for all UK manufacturing sites.
- Thermal mapping and monitoring of heat generating assets
- Feasibility studies for site heating electrification, including concept design, P&ID drawings, comprehensive construction budget and logistics

Results

- Net zero roadmaps enabled the client to reduce their emissions at their largest site by more than 20% in three years. Direct impact of more than £500k/y energy savings with no investment.
- Right-sizing the replacement heating assets in their investment plan.
- Prioritised investment plan balancing carbon impact and financial risk, aligned with the group’s procurement strategy.
- The investment plan is expected to further reduce the site’s carbon emissions by over 20% enabling the client to achieve their 2030 emissions target.



Large brewing organisation: Multi-site specifications for heat pump projects

Verco scope of support

Development of heat pump concept and sizing requirements against known heating requirements.

Collection of full site information of existing site and future production plans, including electricity supply information to highlight import constraints.

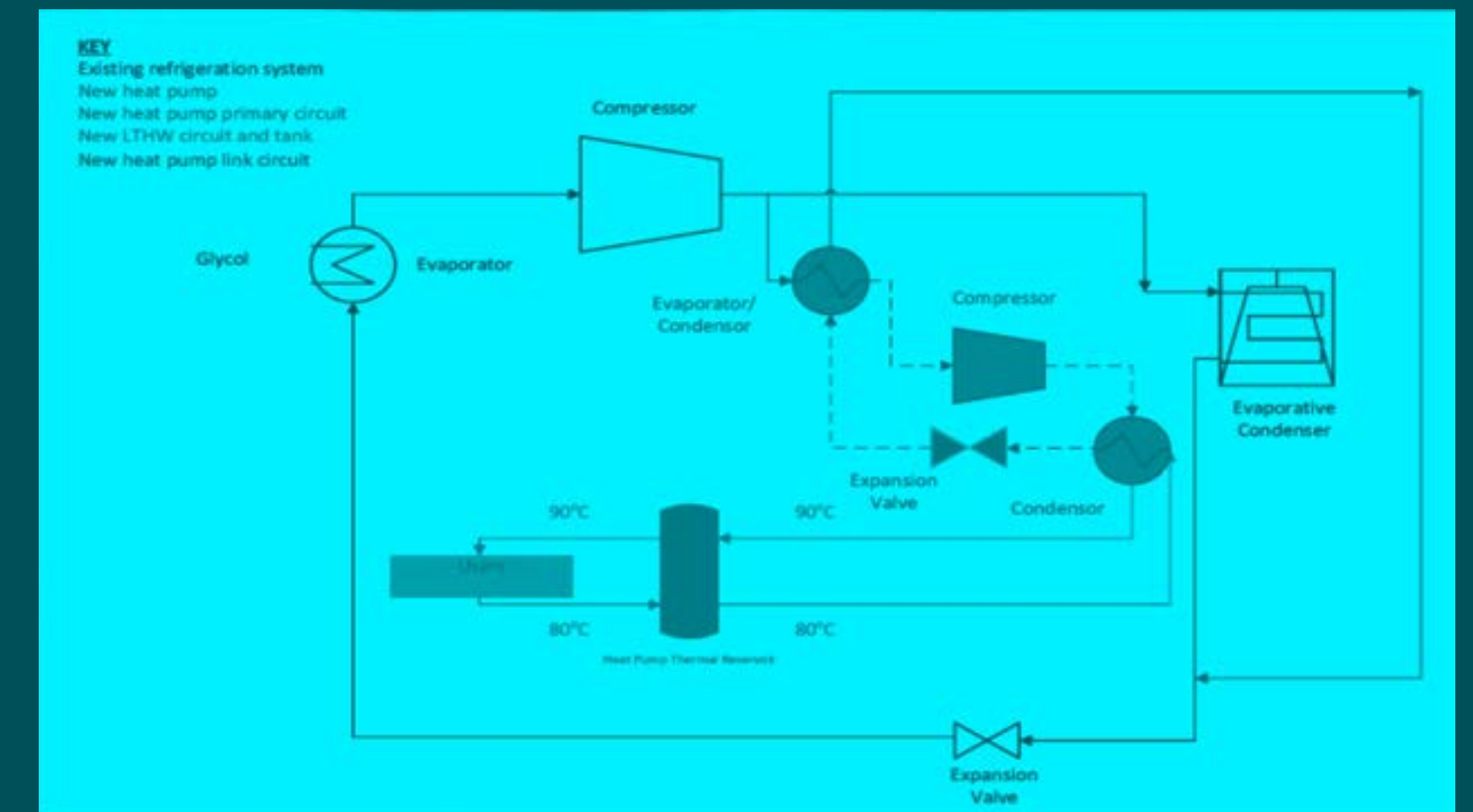
Analysis of sub-metering and nameplate information of all heat users to support with heat pump sizing and demand requirements.

Production of specification document for Front End Engineering Design (FEED) with supplier partners enabling IETF application submission.

Results

Production of the specification, including detailed supplier requirements to capture as part of the FEED design.

Development of optimal integration solution with known waste heat sources on site to maximise heat decarbonisation.



Heat pump concept and thermal integration with site Ammonia refrigeration system

Utilities project delivery: £150k refrigeration and compressed air dryer optimisation

Verco scope of support

Full supplier sourcing, engagement and selection process.

Full review of proposed suppliers and project risk assessment against impact on operations, asset lifetime and replacement plans.

Due diligence review on suppliers and selection of project delivery partner.

Development of CAPEX business case to the client

Project management of installation and post implementation review.

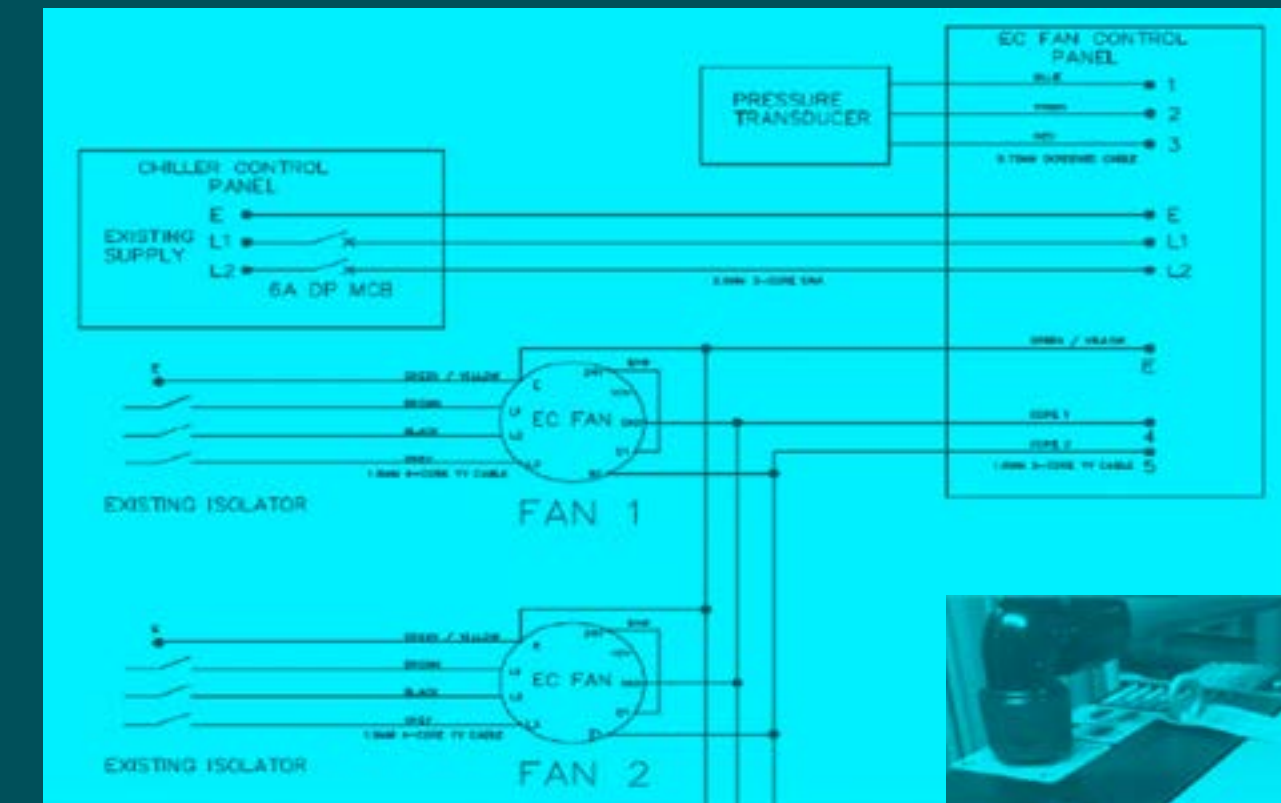
Results

Monitoring and verification results showed 20% energy consumption reduction by retrofitting EC condenser fans.

Equipment life extended reducing replacement costs.

Monitoring and verification results showed 15% energy consumption reduction by retrofitting vacuum pumps on compressed air dryers.

Compressed air capacity increased avoiding cost from compressor upgrade project.



Implementation of EC condenser fan retrofit on refrigeration units



Implementation of compressed air dryer vacuum pumps

Zero carbon dairy: holistic decarbonisation design and procurement support

Verco scope of support

Developed net zero strategy for world's largest fresh milk dairy and supported with contractor procurement as client-side project manager to design, build and operate electrical and mechanical systems at site- solar PV (500kW) and Anaerobic Digestion (AD) for effluent treatment (500kW).

Secured an implementation partner for an AD facility (15 MW) via a power purchase agreement (PPA) and green gas offtake agreement.

Supported the procurement of 20MW of low carbon generation across UK.

Ongoing monitoring of energy services at the site and project management of metering installations across all UK sites.

Results

Achievement of net zero target in operation for dairy: All components of the strategy are making a positive contribution to the operating margins of the dairy with significant reductions in utility costs compared with the business as usual base case and other similar facilities.

Global roll-out of Carbon Desktop energy management and reporting software.



What's next...



Contact us for a free 30 minute consultation

Visit our website