



FEATURE STORY

VAASCO GROUP LAUNCHES ADVANCED C&I PROPERTY FLEET ENERGY MODELLING SERVICE DELIVERING PRECISION AND VALUE

Data-driven modelling that delivers strategic advantage, operational excellence and substantial economic value for property fleet operators.

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VAASCO GROUP has unveiled a powerful new Fleet Energy Modelling and Benchmarking Service for commercial and industrial (C&I) property portfolios, combining advanced energy analytics, grid intelligence and operational data to deliver unmatched insight and measurable value.

The service integrates site energy, grid supply, business operations and climate variables to build highly accurate predictive models. Recent retail food sector trials achieved R² values of 0.98, demonstrating near-perfect correlation between operating conditions and actual energy consumption.

This level of precision moves beyond traditional benchmarks like kWh/m², unlocking the true drivers of energy performance.

PRECISION MODELLING. STRATEGIC INSIGHT. MEASURABLE VALUE.

R² = 0.98
Model accuracy from operational study

5-10%
Typical energy savings potential identified

\$500k-\$5m
Annual value creation for mid sized fleets

ESG
Supports carbon reporting & decarbonisation

FROM SIMPLE BENCHMARKING TO OPERATIONAL INTELLIGENCE

- VAASCO's modelling framework establishes:
- ✔ Site-specific energy signatures
 - ✔ Fleet-wide operational benchmarking
 - ✔ Energy forecasting under changing business conditions
 - ✔ Grid sensitivity analysis
 - ✔ Voltage-performance relationships
 - ✔ Portfolio anomaly detection

At the heart of the methodology is a multi-variable regression model:

$$\text{Energy} = f(\text{Operations, Voltage, HDD, CDD, Time})$$

This creates a dynamic operational model for every site.



THE GRID™ DIFFERENCE



GUARANTEED ENERGY SAVINGS
Backed by performance modelling and measurement verification.



ZERO CAPEX, ZERO RISK
No upfront investment. No technical risk. You only pay for results we deliver.



FULLY MANAGED SERVICE
We scope, model, execute and maintain the service, ensuring maximum outcomes.



REAL-TIME MONITORING & REPORTING
Advanced dashboards deliver actionable insights and alerts.



IMPROVED POWER QUALITY & ASSET LIFE
Optimised voltage reduces electrical stress, heat and wear on your equipment.



SUPPORTS SUSTAINABILITY GOALS
Lower consumption. Lower emissions. Aligns with your sustainability and ESG targets.

TYPICAL RESULTS*



5-15% Energy Savings Typical Range



Up to 10% Reduction in Peak Demand



\$10 to \$3.0M/ann. Annual Economic Benefit



< 2 Years Typical Payback from Savings

*Results vary by site, load profile and operating conditions.

THE VAASCO ADVANTAGE



VAASCO GROUP
Energy Services

- ✔ Advanced energy analytics
- ✔ Grid engineering expertise
- ✔ Voltage optimisation technologies
- ✔ Automated IPMVP verification systems
- ✔ Fleet dashboarding and performance analytics

RECOMMENDED NEXT STEP



Pilot program across 5-10 representative sites recommended prior to fleet-wide rollout.

STRATEGIC VALUE FOR FLEET OWNERS

- 1** **CAPITAL ALLOCATION OPTIMISATION**
Identify underperforming sites and direct capex where returns are highest.
- 2** **ASSET VALUE PROTECTION**
Energy inefficiency directly affects NOI and therefore asset valuation.
- 3** **ESG & CARBON COMPLIANCE**
Supports mandatory reporting frameworks and decarbonisation pathways.
- 4** **PROCUREMENT INTELLIGENCE**
Improves tariff negotiations and wholesale purchasing strategies.
- 5** **TENANT RETENTION**
Lower and better-managed operating costs improve occupancy outcomes.

OPERATIONAL BENEFITS

- Predictive maintenance insights
- Improved energy budgeting and forecasting
- Verification of efficiency projects
- Identification of hidden wastage
- Improved voltage and power quality visibility
- Continuous performance dashboards

THE ECONOMIC CASE

For a fleet operator managing 50-100 sites, even a modest 5% energy improvement can translate into:

\$500,000 to \$5 MILLION PER ANNUM in avoided costs

- ✔ Improved EBITDA margins
- ✔ Reduced exposure to rising energy tariffs
- ✔ Better investment prioritisation

Industry analysts suggest advanced fleet modelling will increasingly become a core management discipline, particularly as electricity markets become more volatile and ESG requirements more stringent.

PROVEN IMPLEMENTATION APPROACH



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