

Digital automation of manual transport processes

Client : A global logistics company specialising in oil and gas

Challenge

Efficient planning of energy transport logistics across the supply chain is a significant challenge for the sector. Several key issues impact this operation:

- Time-intensive planning process: Manual planning of trailer loads requires considerable time and effort for a team of >3 planners.
- Dynamic logistics plan: frequent updates to the plan are needed to accommodate constantly changing incoming cargo requests, often at short notice.
- Dependency on individual knowledge: The planning process heavily relies on the expertise of individual team members, creating bottlenecks and dependencies.

Solution

- Improved the client's cloud infrastructure and enhanced their data through the deployment of Databricks
- In close collaboration with the controllers in the Transport team, Blend built an optimiser– through advanced data science techniques– that automates the planning of trailer loads from a pool of cargo requests
- Visualised the client data in a dashboard, providing real-time visibility of metrics including acceptance rates, rejection reasons, overall fleet efficiency, and breakdowns of cargo transported by client

Impact

- ✓ Optimiser runs within <5minutes, returning results of ~85% accuracy. This runtime has **saved 2-3 hours daily** for the team – freeing up their time for high-value tasks
- ✓ Optimiser has **increased the utilisation of trailers by 20%**
- ✓ Deployment of the optimiser has created **more sustainable business operations** as there is reduced dependency on the logistics planners

Innovation Director

We're reliant on several individuals and spreadsheets to manage key business processes

Supply chain resilience



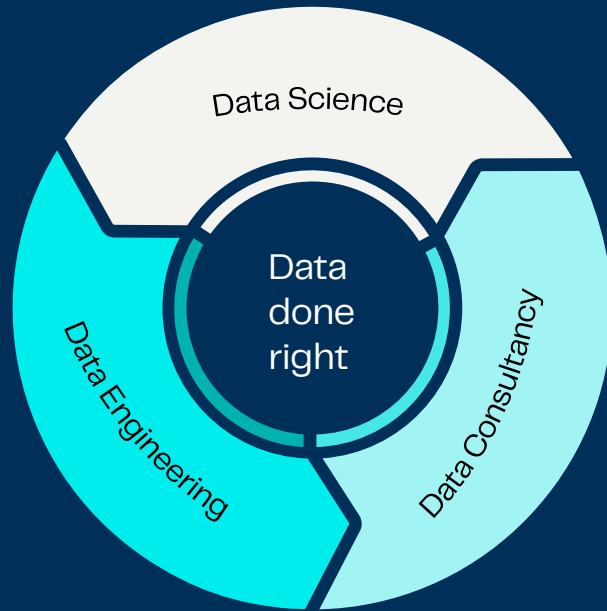
WE BUILD DATA SOLUTIONS

Blend believes that data and AI are critical for building a smarter, cleaner energy future, by driving efficiencies and enhancing decision-making.

Blend are award-winning data scientists, data engineers, BI consultants and strategists who **help build agile, digital organisations** that are fit for a modern energy landscape.



Our data solutions combine world-class capabilities



Data Science

Optimisation

Predictive modelling

Natural Language Processing

Computer vision

Generative AI

Insights & Analytics

BI & Reporting

Data entry tools

Data Engineering

Architecture design

Use case delivery

Pipeline build

Architecture deployment

Platform build & support

Machine learning ops

Data Consultancy

Strategic Advisory & CDO

Data strategy

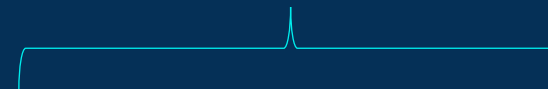
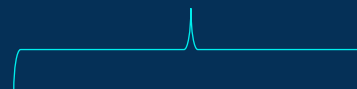
Data maturity assessment

We integrate cross-industry insights to implement specialised, best-practice solutions for the energy industry.

Experience delivering directly with energy clients

+

Experience delivering best-in-class solutions for data mature industries



Why Blend



Expertise without excess

Unlike large consulting firms, we provide no surprises delivery without the premium price tag or unnecessary overhead.



Best of world

We combine access to global talent and technology, with the flexibility of a boutique consultancy.



Bridging theory and practice

We deliver commercially viable, implementation-ready models that deliver business results, not academic theory.



Vendor-agnostic approach

Our independence allows us to recommend and implement the most suitable tools for your specific challenges, avoiding vendor lock-in.



External perspectives with internal integration

Our cross-industry experience brings fresh insights and best practices, while avoiding internal biases and ensuring seamless integration with your existing processes.



Customised solutions, not off-the-shelf constraints

We adapt our solutions to your business, not the other way around, ensuring you get 100% of what you need, not just 80%.

Thank ™ you

Niall Rowantree

VICE PRESIDENT OF ENERGY



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