



SUSTAINABILITY

AUDIT READY – SIMPLIFIED REPORTING – INNOVATIVE ESG

ACCELERATING RAIL FOR A NET ZERO WORLD

Downer is playing a vital role in the transformation of the rail industry. We are pushing to reach net zero carbon emissions targets and want to help organisations do the same.

As an industry leader in developing solutions for asset management systems our solutions have been designed to meet strict sustainability requirements.

The **Sustainability Module** of the TrainDNA product suite, is designed to help our clients answer common questions such as: *How does your energy usage compare to industry averages? Can you view the energy usage of in-flight projects? What is the total energy usage for maintenance assets?*

Together with market-leading software and supported by deep industry knowledge, TrainDNA's sustainability module provides easy control and visibility of critical reporting. Helping to manage and mitigate the increasing pressure that comes with regulatory compliance and fines.

Offering customers, the ability to remove the barriers to accelerating sustainability performance and increase decarbonisation effectiveness.

BENEFITS

Benefit 1 – Reporting time/cost reduction

- Time and effort reduced for manual collation and reporting of emissions data/ insights (inc. Consulting Costs)

Benefit 2 – Reduction in cost of credit

- Cost savings in being able to obtain cheaper finance – sustainability linked loans

Benefit 3 – Sustainability initiatives, identification and benefit realization

- Reduction in investment cost spent on the wrong projects. Benefits realisation tracking for in-flight projects

Benefit 4 – Adherence to regulatory requirements and pressures

- Avoiding potential regulatory fines associated with non-compliance

Benefit 5 – Improved tender win rate

- Strengthen your bids by including a leading product solution to meet market sustainability demand.



WHAT IS TrainDNA?

A full suite of rail and transit system asset management services, designed to provide class leading performance and improve passenger experience. Upgrade to next generation, asset management technology and provide the industry's most **reliable**, **available** and **efficiently** run trains.

TrainDNA takes you on a transformational journey to a digitalised and improved asset management system.



Climate change is the number one, greatest threat to humanity. And Downer takes this threat – and our part in preventing it – very seriously.

- Nathan Brogden, Group Sustainability Manager, Downer Group

THE MODULES

Flexible, scalable and agile, TrainDNA is comprised of 5 standalone and inter-operable modules. Reap the benefits of 1 module, or add and combine multiple modules at any stage of operational maturity. The data, capability and knowledge of each module is proven to shape successful business decisions and improvements.



Maintenance Management

of all asset management, maintenance activities and the related workforce planning.



Operational Intelligence

by real-time data, integrated from many sources (trains, maintenance facilities, operators).



Asset Intelligence and Analytics

The process of analyzing data and producing in-sights and findings.



Robotics and automation

to remove manual tasks that are prone to human error, difficult to perform and time consuming to complete.



Sustainability

Optimising real-time power consumption, work practices and track sustainability benefits



CIRCULAR ECONOMY IN PRACTICE.

TrainDNA can also be used to draw in data were available, from historical and current maintenance records, and from reviews of the current design models to be able to find and make circular economy recommendations.

Diagnostic data is most likely to be available and useful for assets around Traction engines, Gensets, Doors and HVACs.

Outputs may include:

- Remaining Useful Life of important components and ability to determine opportunities to safely extend asset life and reduce waste
- Identifying opportunities, through the normal Engineering Change Processes, to increase the recycled content in parts
- Identifying opportunities to change the recyclable content in consumables too
- Advice on fuel consumption minimisation strategies

MODULES

CONSULTING AND DATA ANALYTICS SERVICES

Data services:

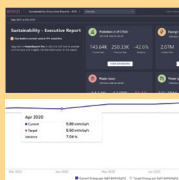
- Collation and processing of customer's data.
- Utility providers for electricity suppliers across builds and maintenance
- Ongoing report generation

Advisory services:

- Insights and identification of sustainability opportunities
- Project benefit tracking
- Reporting on requirements for Sustainability linked lending
- Industry Benchmarking and specific target setting

Benefits:

- ✓ Cost savings in being able to obtain cheaper finance - sustainability link loans. e.g. 0.5% - 1.5% reduced rate ANZ(AUS & NZ)
- ✓ Reduction in investment cost spent on the wrong projects
- ✓ Benefits realisation/tracking for in-flight projects.



Visualised examples of reporting.

REPORTING

Using a powerful emissions calculation engine and flexible reporting tools to meet strict sustainability requirements. A proven emissions reporting solution.

Report with confidence knowing your ESG data has been captured in a single system of record with audit trails and financial-grade accuracy backed by more than a decade of industry experience.

Emissions data capturing and reporting:



Benefits:

- ✓ Time and effort reduced for manual collation and reporting of emissions data
 - ✓ Enabling increased frequency of reporting providing better insights
 - ✓ Potential regulatory fines associated with non-compliance
- AU example upcoming mandatory reporting seen [here](#).

NETWORK AND ASSET ENERGY EFFICIENCY PERFORMANCE VISUALISATION PLATFORM

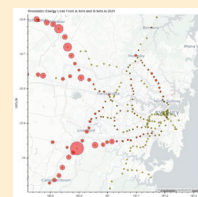
Operational visual view of network and assets for customer's defined sustainability targets and operating parameters

Benefits:

- ✓ Reduction in investment cost spent on the wrong projects
- ✓ Benefits realisation/tracking for in-flight projects
- ✓ Allows identification and tracking for operators who are unable to interpret detailed quantitative data
- ✓ Generates data driven alerts for specific interventions.



Operational visual view of network and assets for customer's defined sustainability targets and operating parameters



Depot energy alerts can be set and mapped, giving proactive indication of:

- Unexpected trends
- Potential Violations of ISC Ratings

Talk to one of our TrainDNA specialists and find out more about our modular approach.

Contact: TrainDNA@downergroup.com