



do▶way

solutions for design and optimization

mobility.



“Optimizing the energy performance of transport in infrastructures”

A priority from day one

The energy performance of transport infrastructures is an economic issue which weighs increasingly on investment decisions. At the same time, widespread awareness of the impact that energy consumption has on our lives and our planet has made the efficient use of resources a major public concern.

In order to meet these challenges, **Doway** offers proven solutions to reduce the cost of the integration, operation, and maintenance of transport infrastructures. These solutions are based on methods aimed at the UPSTREAM optimization of infrastructure design.

Because only the most rigorously conducted studies can guarantee the energy performance of installed systems, "we offer " :

- Design, research and consulting,
- RAMS engineering,
- Simulation, scaling and optimization of networks.





Design, research and consulting

Preliminary phase:

Design assistance - equipment scaling, design notes, schematics, technical coordination and system integration.

Project execution phase:

Purchasing assistance: consultation specifications, tender analysis, factory acceptance tests, work-site assistance, independent checking, VISA, supervision and coordination of testing.

Support phase:

Operational and maintenance documentation, training.

The do-way advantage

- Support throughout the V-model process.
- Experience in project design and execution (design and build).
- Assurance of performance.
- Leader in engineering.
- Independent Technical Expertise.



RAMS engineering

Reliability, Availability and Serviceability (RAS) file:

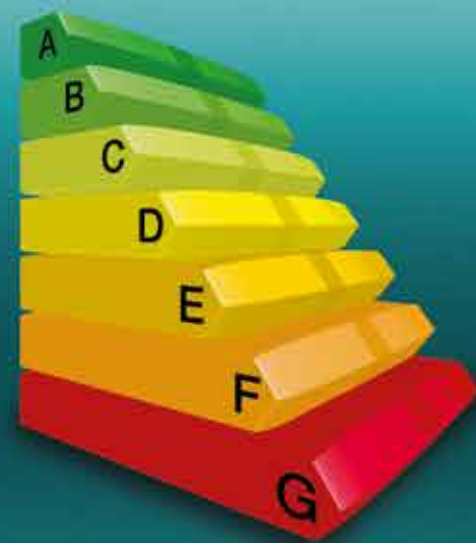
Realisation of RAS file (MTBF, MTTR, availability calculation), failure modes and effects analysis, system architecture validation, performance monitoring demonstration, evaluation of overall maintenance costs (spare parts stock determined with highest possible accuracy).

Safety:

Conducting safety studies, safety assurance plan, risk analysis, safety integrity level allowance (SIL according to EN 50128), management of software projects and teams to provide overall control of safety issues, evaluation services (software and hardware), internal audits and supplier audits, coordination of safety teams.

The do-way advantage

- In-house and independent RAMS (Reliability, Availability, Maintainability and Safety) experts, experienced in accompanying turn-key projects.



Simulation, scaling and optimization of networks

On existing lines:

Audits to identify voltage level issues, electrical network simulation to optimize energy performance, tailored solutions (energy recovery, energy injection), instrumentation of rolling stock in order to obtain field input data.

On future lines:

Definition of energy demand (number and position of connection and injection points, energy recovery systems), anticipation of network developments (predisposition of future equipment, extension management, connections and line capacity).

Development of innovative systems:

Elimination of OCL (overhead contact lines): boost charging, energy recovery and / or injection systems...

The do-way advantage

- Comprehensive approach to systems (infrastructure and rolling stock).
- Turn-key solutions.
- Expertise in energy recovery systems acquired by operating the tramway in Le Havre.

Enjoy the way.

Throughout the world, transport infrastructure is a major issue in regional development planning. We therefore work with our customers to create public facilities that are useful, state-of-the-art and environmentally friendly.

And alongside our customers, we face the constant challenge of ensuring that flows of people and goods remain uninhibited and uninterrupted.

Rising to this challenge has become our raison d'être and the foundation of our philosophy. The quest to achieve and obligation to deliver excellence motivates all of our teams working on each of our projects, assignments and worksites.

«Enjoy the way» is our way of expressing and sharing this philosophy.

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