TWAIN enhances collaboration between wind turbines to produce smarter energy that are gentle with the environment, providing value to society, and fully integrated in the energy system.

The project aims to create more energy security for less dependence on fossil fuels, more sustainability for less pollution, more openness for less isolation, and more optimization for less energy congestion.

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TWAIN

Integrated, Value-based, and Multi-objective Wind Farm Control powered by Artificial Intelligence

www.twainproject.eu

More

energy security for
less dependence on fossil fuels

sustainability for
less pollution

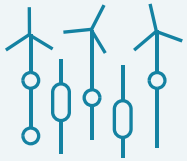
digital for
less complexity

openness for
less isolation

optimisation for
less energy congestion

PROJECT GOALS

To develop a modern data collection and analysis environment for the TWAIN workflow.



To digitalise, validate, and incorporate the prediction tools for the relevant processes of wind farm control.

To quantify the economic, social and environmental implications and risks for a series of industrially critical case studies.

To optimise multi-objective, value-based WFC, through multi-level controller integration and related WF design.

To facilitate testing and adoption of the open-source TWAIN decision support environment for wind power asset management.