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Welcome to the Second Newsletter of the TWAIN Project

Know more about the initial results, activities performed, and some of the future plans for the project in 2025.

TWAIN reached the first year mark with a General Assembly in Munich, Germany

partners at the [Technical University of Munich](#), in Germany. The two full days of meetings displayed the current advancements of the TWAIN Framework, the model developments for the wind farm response, and also current case studies and field tests on DTU's Risø Campus.

Read more here

TWAIN News and Events

TWAIN exhibiting at Webit 2024

On October 23 and 24, 2024, TWAIN was present at the Bulgarian edition of the [Webit festival](#), part of the [F6S Innovation](#) booth together with other European Commission-funded projects. TWAIN was part of the Sustainability division of the F6S Innovation booth, leader of the communication and dissemination of the project.

Read more here

TWAIN partners present at the WindEurope Technology

The [WindEurope Technology Workshop](#) was held in Dublin, Ireland, on June 11 and 12th. The side event of the main WindEurope is focused on the latest innovations from across the wind sector and to tackle the outstanding technical challenges for the industry. Our partners from [CENER and DTU](#) were present for two sessions.

Read more here

TWAIN welcomes Vattenfall as one of the project partners
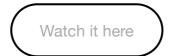

[Vattenfall](#) officially joined TWAIN as a project partner, adding knowledge and value to the consortium being one of the largest producers and retailers of electricity and heat from the energy sources; wind, hydro, biomass, solar, nuclear, coal and gas.

TWAIN Synergies

The Next Generation of Wind Farm Control Webinar

Held on September 10th, TWAIN was part of the first synergies webinar with projects funded under the same Horizon Europe call "Integrated Wind Farm Control" ICONIC, SUDOCO, and WILLOW. Watch now the recording of the session will the presentation of the four projects and the opening by CINEA – European Climate, Infrastructure and Environment Executive Agency.

Watch it here

Meet four European Commission-funded projects teaming with TWAIN towards energy efficiency actions

[SNUG](#) - SNUG aspires to contribute to a world where buildings seamlessly integrate with the environment by reshaping the construction industry and fostering the transition to Zero-Energy Buildings. Using circular economy principles and artificial intelligence, the project will support architects and builders in selecting optimal thermal insulation materials according to building features and surroundings.

[INFERNO](#) - The project aims to develop a system to turn industrial waste heat into electricity. This system will use three advanced technologies: thermophotovoltaics (TPV), metasurface collector (a heat-capturing surface), and thermoelectrics generators (TEG). With an innovative design strategy, these components will be integrated to develop a modular hybrid energy harvesting system that can be easily integrated into the production lines for converting industrial waste heat into usable electricity. The project's ultimate goal is to create an efficient and easy-to-install system that helps reduce greenhouse gas emissions.

[i-STENTORE](#) - i-STENTORE explores the integration of various storage solutions, emphasising innovation and efficiency. It will highlight the synergy between storage systems and other integrated assets, prioritising reliability, power quality, cost-efficiency, and asset lifespan.

[SUDOCO](#) - The project is a pioneering project funded by the EU and dedicated to revolutionising the wind energy industry through the development of an open-source, data-driven "Control Room of the Future." This innovative platform aims to achieve the optimal equilibrium between maximising energy output and mitigating structural stress in wind farms, while enhancing overall wind farm performance, measured through a time-varying value function. By leveraging physics-based machine learning

into underlying physics, SODOCO ensures robust and cyber-secure solutions.

Activities from Synergy Projects: EXIGENCE's Green ICT Digest

The SNS JU project [EXIGENCE](#) aims to decrease energy consumption and carbon emissions in ICT by adopting a comprehensive, end-to-end strategy across various domains, including cloud providers, fixed and mobile networks, and end-user devices. The project repository [Green ICT Digest](#) is a dedicated hub that aims to transform the way we reason about and act on our energy consumption and carbon impact within the Information and Communications Technology (ICT) domain. It is designed to be your go-to-resource for key metrics, measurement, attribution, orchestration, and optimisation within the ICT ecosystem.

TWAIN Technical Advancements

Karolina Jurak - Project Manager from SoftServe

During the first year of the project, our primary scope of work was to design the architecture for the TWAIN solution, validate and refine it in collaboration with the Consortium, and implement and deploy the TWAIN framework components on DTU's infrastructure. This enabled the first Consortium users to test the system and provide valuable feedback. The task will continue into 2025, alongside the development of the

Toolbox.

Energy Events in 2025

Some of the most important events for renewable energy in 2025:

EERA DeepWind Conference 2025 - Trondheim, Norway - January 15 to 17th
World Sustainable Energy Days - Wels, Austria - March 5 to 7th
WindEurope 2025 - Copenhagen, Denmark - April 8 to 10th
Lisbon Energy Summit - Lisbon, Portugal - June 3 and 4th
Wind Energy Science Conference - Nantes, France - June 24 to 27th

**Will you attend these and other events? Contact us for potential collaborations!
Also, check more events mapped on our website!**

Click here

TWAIN Upcoming

The TWAIN Newsletter will move to LinkedIn!

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Register to the **TWAIN WindNews** here to receive the next edition,
right in your LinkedIn account and email!

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TWAIN

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

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