

A visual journey into the Control Room of the Future



Photo provided by Nicholas Doherty, Unsplash

Discover how SUDOCO will harness the power of offshore wind farms through the new project video.

SUDOCO embarks on the puzzle-like challenge of harnessing wind power into an open-source, data-driven control platform. To untangle such a complex matter, **SUDOCO's presentation video** explores how data mining and machine learning enable real-time measurements of turbine performance. This leads to more effective operational control, an increase in energy production, and a reduction of structural stress.

The video shows the project's commitment to achieving climate neutrality by 2050, targeting a **10% reduction in the Cost of Valued Energy metric** and optimising the entire wind farm system to **decrease lifetime CO₂-equivalent emissions by 20%**.

“The project is growing quickly”, says Jan-Willem van Wingerden, SUDOCO coordinator, “and so is our enthusiasm to share our research and developments. **This short presentation video**



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is intended for a wide audience, including colleagues, experts, and non-experts, aiming to ignite the same passion for advancing wind energy that drives us at SUDOCO.”

Watch the video [here](#).

BACKGROUND

The SUDOCO project is funded by the European Union under the Horizon Europe Programme (Grant Agreement 101122256). SUDOCO is committed to revolutionizing wind energy with an open-source, data-driven platform (the “Control Room of the Future”), allowing operators to optimize wind farm output in real time using diverse inputs and conditions.

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