



Annual Report 2024

# Task 60

Photo: Stages in the life cycle of a wind power plan. (Source: ChatGPT)

## CYCLEWIND – Harmonised Life Cycle Assessment for Wind Power

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**CYCLEWIND was officially launched in January 2025 and focuses on the environmental sustainability assessment of wind power from a life cycle perspective.**

The primary objective of this Task is to provide a harmonized framework for life cycle assessment (LCA) of electricity

generation from wind energy, enabling consistent and transparent LCA results for sustainable long-term decision support.

**Work Package (WP) 1** focuses on establishing a methodology for LCAs of wind power for different decision-making purposes. The developed methodology will provide guidance on modelling

decisions on how to establish the life cycle inventories (LCI) of wind power, on the choice of environmental impacts and indicators to be analysed, and on the structure of the documentation and reporting.

**WP 2** focuses on establishing LCI data and reference cases of onshore wind, offshore wind and specific cases.

**WP 3** consists of case studies that apply the established LCA methodology guideline on different onshore and offshore wind power systems.

**WP4** aims to facilitate the exchange of information within the wind energy community and to make the results of CYCLEWIND accessible to a wider audience. This includes a factsheet summarizing the main deliverables produced under this Task, a policy brief concerning LCAs in government policy

and energy auction design as well as a digitalised platform for collection and sharing of primary data in the supply chain.

CYCLEWIND is supported by experts from Norway, Switzerland, France, Netherlands, Sweden, Germany, United States, United Kingdom, and Wind-Europe. It includes official participation of industries such as Vestas, ENERCON GmbH, EnBW, Nordex SE, RWE Offshore Wind GmbH, and Vattenfall.

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