

Resource Summary Report

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Wind Integration National Dataset Toolkit

RRID:SCR_023782

Type: Tool

Proper Citation

Wind Integration National Dataset Toolkit (RRID:SCR_023782)

Resource Information

URL: <https://www.nrel.gov/grid/wind-toolkit.html>

Proper Citation: Wind Integration National Dataset Toolkit (RRID:SCR_023782)

Description: United States national wind dataset. Provides high spatial and temporal resolution wind power, wind power forecast, and meteorological data for 7-year period at over 126,000 locations throughout continental United States. The largest publicly available wind power data set in the world. Used for wind energy integration studies. It is accessible through Web-based API.

Abbreviations: WIND

Synonyms: WIND Toolkit

Resource Type: data or information resource

Defining Citation: [DOI:10.1016/j.apenergy.2015.03.121](https://doi.org/10.1016/j.apenergy.2015.03.121)

Keywords: United States, national wind dataset, wind energy integration studies, high spatial and temporal resolution wind power, wind power forecast, meteorological data,

Funding: U.S. Department of Energy

Availability: Free, Freely available

Resource Name: Wind Integration National Dataset Toolkit

Resource ID: SCR_023782

Record Creation Time: 20230713T050225+0000

Record Last Update: 20260808T190258+0000

Ratings and Alerts

No rating or validation information has been found for Wind Integration National Dataset Toolkit.

No alerts have been found for Wind Integration National Dataset Toolkit.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Lee S, et al. (2025) A novel deep learning framework with artificial protozoa optimization-based adaptive environmental response for wind power prediction. Scientific reports, 15(1), 18746.