

# EAWE Test Wind Turbines Committee (TWTC) - Overview

Facility Name	Location	turbine testing (kW)				computing testing	meteorological data	turbine data	Open numerical model(s)	Open controller model	turbine access	data availability	keywords	Link to pdf
		0-10	11-110	101-1.000	> 1.000									
Chalmers test wind turbine	Björkö, Sweden		45 kW				since 1986	from 2021	Sims, FAST	YES	YES	Data on request	open control program, blade data	<a href="#">PDF</a>
Center for Wind Power Drives (CWD)	Aachen University, Germany					4 MW nacelle test bench, grid emulator		FVA Nacelle on request/ project based			YES	FVA Nacelle on request/ project based	4 MW nacelle test, 20 MVA grid emulator	<a href="#">PDF</a>
ECN Wind Turbine Test Facility Wieringermeer	Wieringermeer, the Netherlands				5 turbines of 2.5 MW	blade and rotor loads, power and meteorological data	YES		In PHATAS	No but measured rotor speed and pitch angle are provided		7 years of data, 10 minute averaged data but time series are available as well	(Very) flat polderland	<a href="#">Link</a>
The ETH Aventa research wind turbine facility	Winterthur, Switzerland	6.5 KW				Blade Experimental Modal Analysis	LiDAR (Dec. 2021 - May 2022)		OpenFast		YES	<a href="#">Link</a>	numerical aerodynamic and structural models	<a href="#">PDF</a>
IET & NCEPU wind turbine at Zhangbei	China		100 kW				from 2014	in 2018	Bladed, Ansys Fluent			10 min met data, 50 Hz turbine data in short term	wind turbine aerodynamics	<a href="#">PDF</a>
Flatirons Campus	NREL, I Boulder, Colorado, USA			600 kW	1.5 MW 2.3 MW 2.0 MW	nacelle test bench, grid emulator	YES	YES	OpenFast BHawC				wakes, aeroelastic stability, aerodynamics, aeroacoustics, wildlife, drivetrain	<a href="#">PDF</a>
Saint Hilaire de Chaléons,	Pays-de-la-Loire, France				2.0 MW		YES	YES			YES	By NDA	noise reduction, life time extension	<a href="#">PDF</a>
The OST test turbine	Winterthur, Switzerland	6.5 kW						YES	OpenFast		YES	1 Hz data	testing measurement technology	<a href="#">PDF</a>
WEICan Wind R&D Park	Prince Edward Island, Canada				5 x 2.0 MW		since 1987	YES			YES	1 Hz data	wind farm, flat terrain	<a href="#">PDF</a>
WINSENT	Stöttener Berg, Germany			2 x 750 kW			since 2018	from 2023 ff.	YES	YES	YES	10 min met data, turbine data on request	complex terrain	<a href="#">PDF</a>
WiValdi Research Wind Farm	Krummendeich, Germany			500 kW	2 x 4,26 MW		since 11/2020	YES	tbc	tbc	YES	YES	research wind farm, research on and with WTG and beyond	<a href="#">PDF</a>