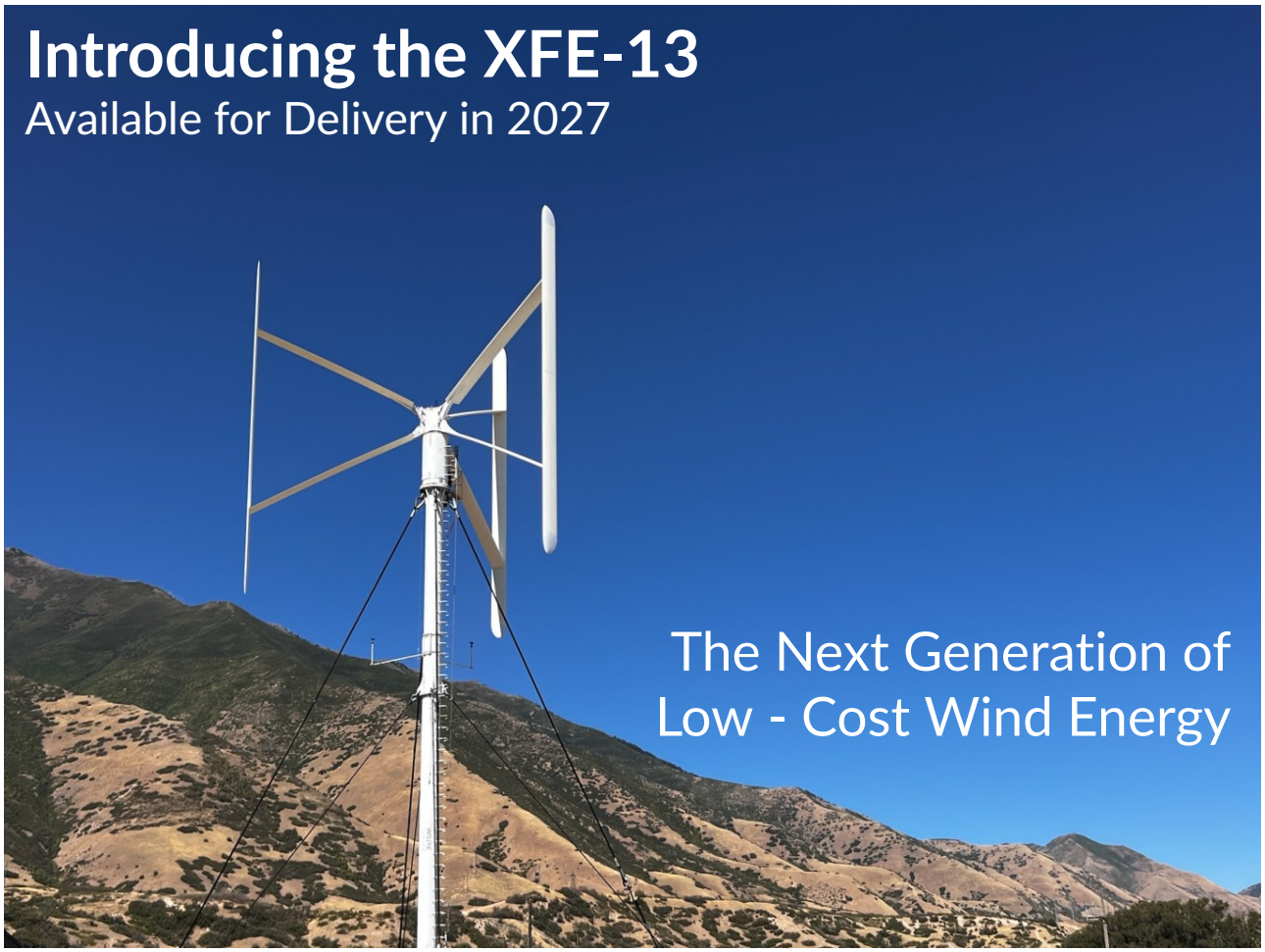
XFLOW ENERGY

Introducing the XFE-13

Available for Delivery in 2027



The XFE-13 is the most reliable, efficient, and affordable 30 kW vertical-axis wind turbine (VAWT) on the market. It's designed to reduce energy costs and maximize return on investment (ROI).

With over a decade of R&D, the XFE-13 simplifies distributed wind energy. Our patented power system uses standard solar inverters, making grid connection easy for local installers and saving you money.

Low-maintenance and IoT-enabled, the XFE-13 provides real-time performance monitoring. Stay informed with 24/7 access or receive maintenance alerts for optimal performance and longevity.

Find out how you can lower your energy bills with XFlow. Visit xflowenergy.com or email sales@xflowenergy.com.

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Specifications

System

Model	XFE-13
Design Lifetime	25 years
Rated Power	30 kW
Configuration	VAWT, Fixed Pitch, Single Degree of Freedom
Drivetrain	40 Hp induction motor, two-stage planatary gearbox
Extreme Wind Speed	59.5 m/s (133.1 mph)
Operating Temperature	-20°C - 40°C (-4°F - 104°C)
Certifications	ACP 101-1 and IEC 6100-2 Ed.3 (available 2027)

Rotor

Rotor Diameter	15 m (49.2 ft)
Rotor Height	13 m (42.7 ft)
Swept Area	195 m^2 (2099 ft^2)
Rotor Speed	Up to 30 RPM
Cut-in Wind Speed	3 m/s (6.7 mph)
Cut-out Wind Speed	18 m/s (40.3 mph)

Power electronics

Type	Grid-tied, utility interactive, solar inverter
Output	36 kW, 480 VAC, 3-phase, 60 Hz
Efficiency	Maximum efficiency of 98.5%
Power Factor	>0.99 (±0.8 adjustable)
Certifications	UL 1741-SA/SB Ed. 3, UL 1699B, UL1998, CSA-C22.2 NO.107.1-01, IEEE 1547-2018, FCC Part 15
Selectable Grid Standards	IEEE 1547a-2014, IEEE 1547-20186, CA Rule 21, ISO-NE, HECO

Braking

Primary	Dynamic generator brake
Secondary	Fail-safe pneumatic disk brake

Tower

Material	Steel
Height	18 m, 24 m, or 30 m (59 ft, 79 ft, or 98ft)
Raising Mechanism	Gin pole

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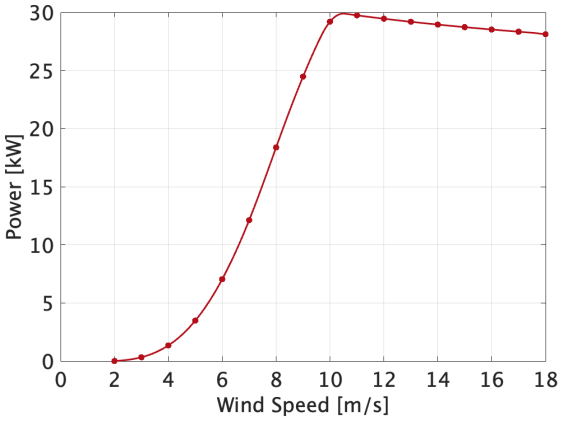
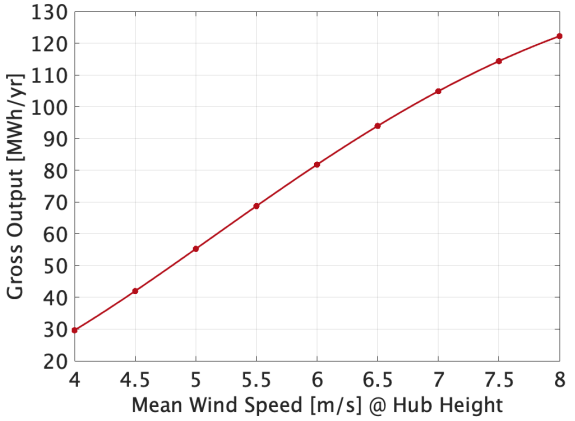
Email us: sales@xflowenergy.com

Power Output

Below values are under standard conditions: air density 1.225 kg/m3, equivalent to 15°C at sea level



Wind speed (m/s)	Wind speed (mph)	Power Output (kW)
3	6.7	0.3
4	8.9	1.3
5	11.2	3.5
6	13.4	7.0
7	15.7	12.1
8	17.9	18.4
9	20.1	24.5
10	22.4	29.1
11	24.6	29.7
12	26.8	29.4
13	29.1	29.2
14	31.3	28.9
15	33.6	28.7
16	35.8	28.5
17	38.0	28.3
18	40.3	28.1



Wind speed (m/s)	Wind speed (mph)	Annual Energy Production (MWh/yr)
4.0	8.9	29.6
4.5	10.1	42.0
5.0	11.2	55.3
5.5	12.3	68.7
6.0	13.4	81.8
6.5	14.5	94.0
7.0	15.7	104.9
7.5	16.8	114.3
8.0	17.9	122.2