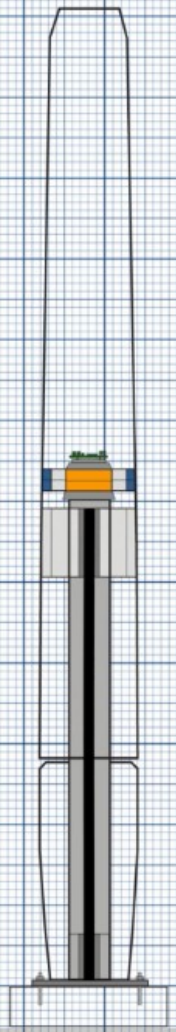
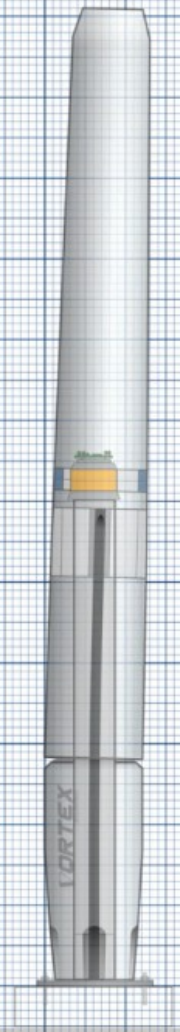



VORTEX

VORTEX

No mechanical maintenance

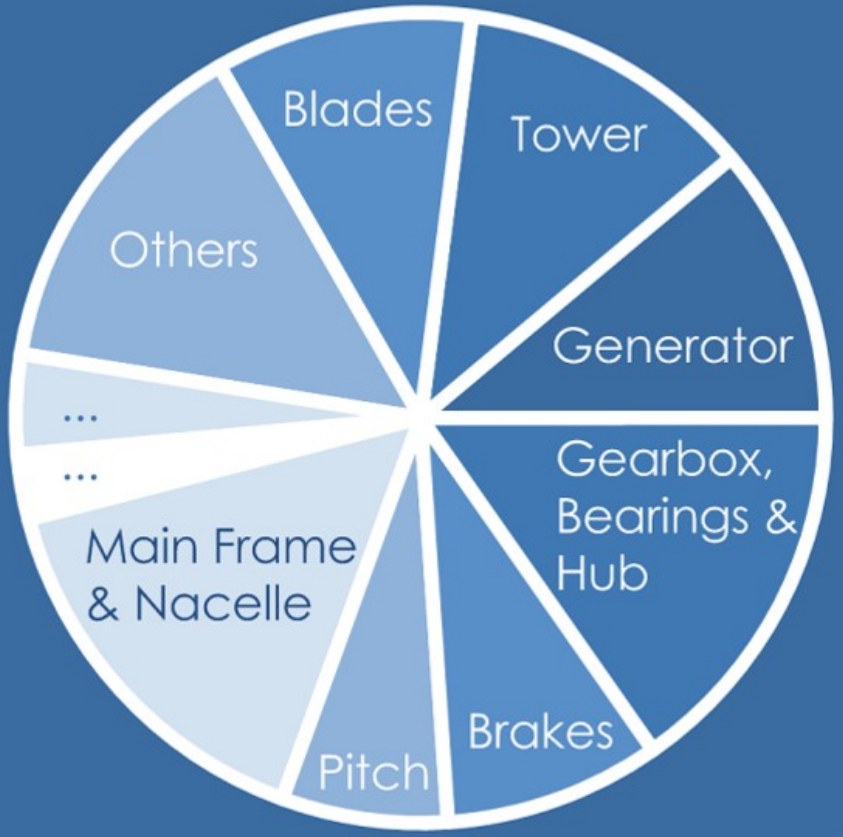
Long lifespan

Low visual impact

No noise

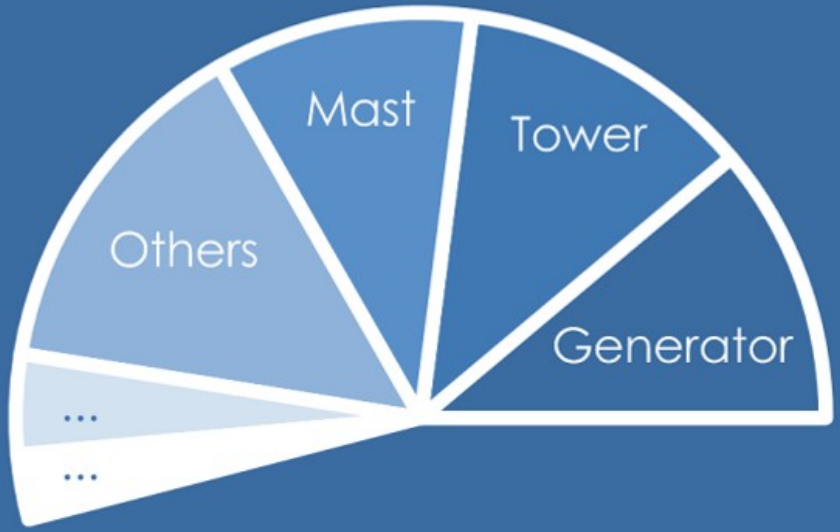
VORTEX Bladeless

Energy Cost Reduction



VORTEX
Bladeless

Energy Cost Reduction



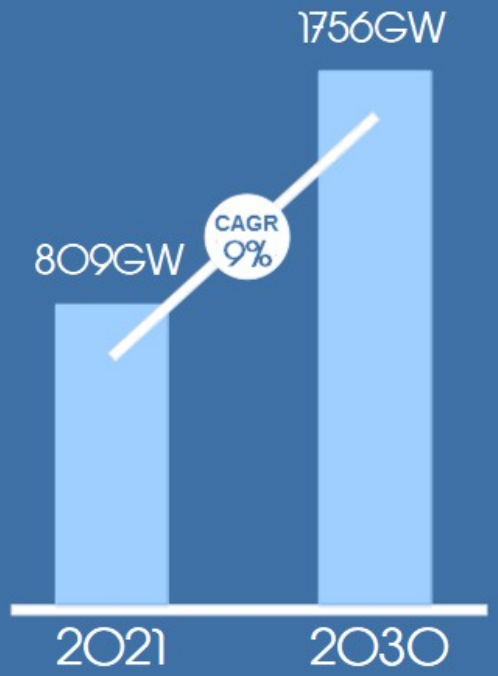
-40%

VORTEX
Bladeless

- Electricity cost reduction
- Environmentally friendly
- Clean energy access for all

VORTEX
Bladeless

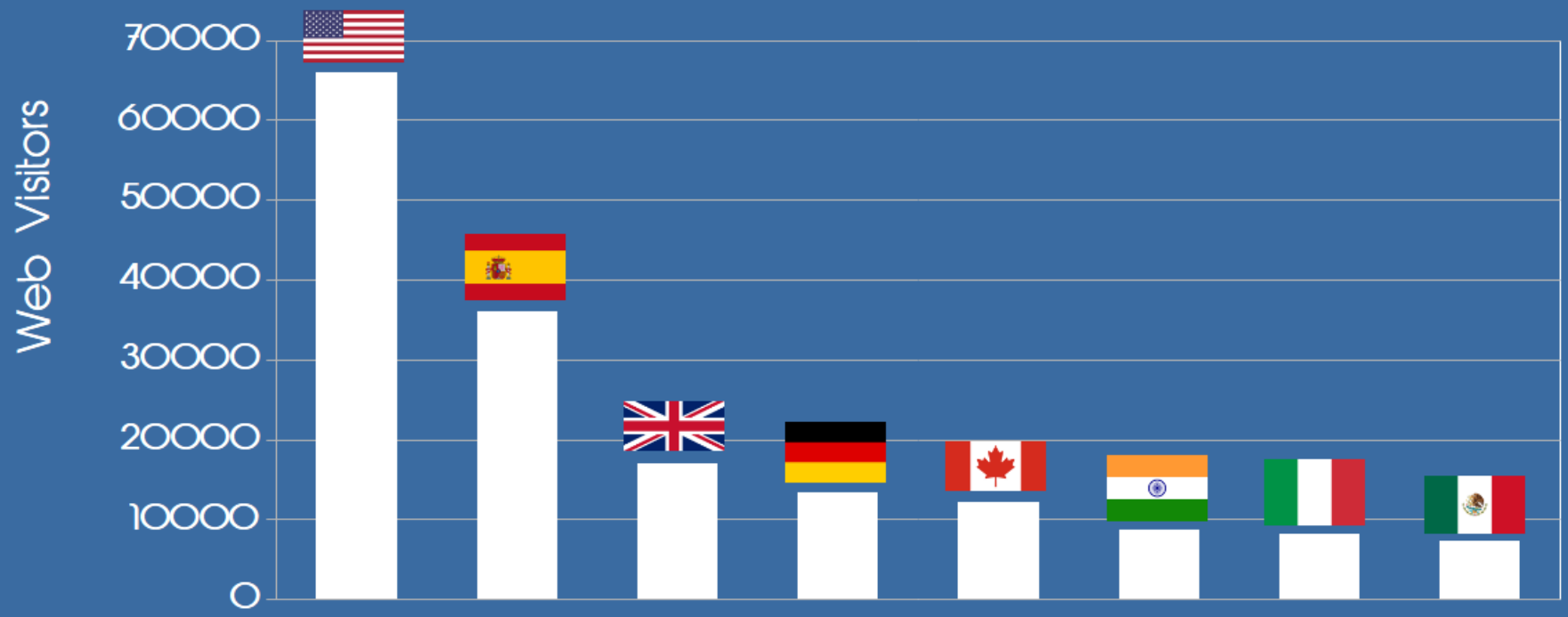
Wind Market



Wood Mackenzie, Global wind power market outlook update: Q4 2021

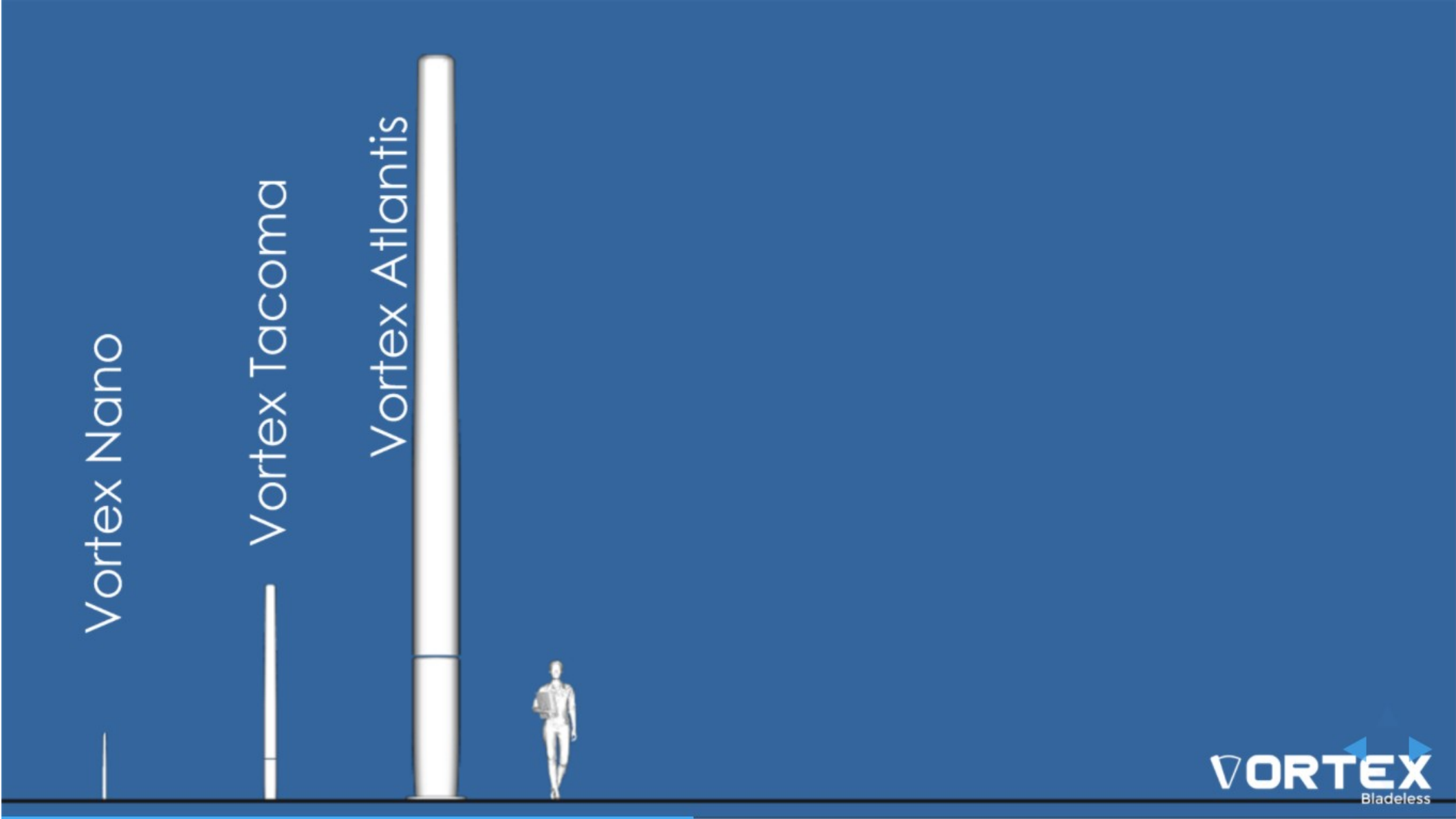
VORTEX
Bladeless

Market Prospection

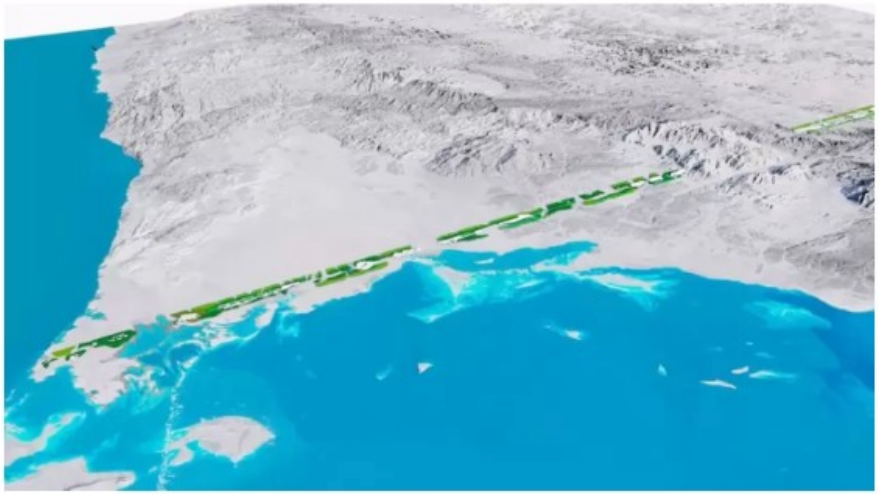


267.909 Vortex Web visitors

(from Jan. - Aug. 2021)


Vortex Nano
Vortex Tacoma
Vortex Atlantis
VORTEX
Bladeless

www.neom.com



NEOM نيوم

VORTEX
Bladeless

VORTEX
Bladeless

VNiVERSiDAD DE SALAMANCA

Altair

Ciemat ceder

BSC Barcelona Supercomputing Center

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DAVID YAÑEZ
PRESIDENT/coFOUNDER/TECH

SERGIO SABOYA
R&D ENGINEER/COMP. SIMULATION

VORTEX Bladeless

JORGE GALINDO
R&D ENGINEER/PROTOTYPING

SEO BirdLife

JORGE PIÑERO
SOFTWARE/SOCIAL MANAGMENT

RAMÓN MARÍN
DIRECTOR SALES & MARKETING AMERICAS

MITSUBISHI

techstars_

Patent Family	Ref.	Publication Date	Title	Countries	Summary
A	WO 2012-017 106 A1 (US) - 9,444,372 B2 (US) - 9,856,854 B2	09.02.2012 Sep. 13, 2016 Jan. 2, 2018	Vortex Resonance Wind Turbine Aerogenerador Resonante por Vorticidad	US, ES, CN,MX, IN	First publication of a slim, vertical, variable-diameter machine that uses VIV (Vortex Induced Vibration) to generate electrical power. Initially the use of piezoelectric material was contemplated. The addition of the US patent updates these concepts in a more robust way.
B	WO 2016-055 370 A2-3	14.04.2016	An Electrical Power Generator and an Electrical Power Generation Method	US, EPO (Europa), CN, JP, CN	Describes for the first time a method of magnetic mast tuning.
C	WO 2017-174 685 A1	12.10.2017	Electrical Power Generator	US EPO (Europe), CN, JP	Strategy for placement of the alternator/tuner inside the mast.
D	WO 2018-149 942 A1	23.08.2018	Electrical Power Generator	EPO (Europe) and PCT (current world process).	Mast geometry and consolidation of certain machine components.
E	WO 2021-115 640	22 June 2020 (receipt)	Electrical Power Generator	EPO (Europe) and PCT (currentworld process).	Alternator.

WIND POWER WITHOUT BLADES

VORTEX Bladeless

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