



Ambition and especially ACTION is needed The required growth of Renewable Energy



+80%
energy delivered by renewable sources required to limit the temperature increase to 2°c





And by....

Bringing to market a drone capable to convert high altitude wind forces into low-cost electricity in almost any location around the globe

The Optimal Solution

Skypull's VTOL drone represents a revolutionary boxed wing design providing maximum efficiency and power generation combined with highest safety and reliability, for distributed and utility scale (MW) energy generation.

Integrated system control SOFTWARE

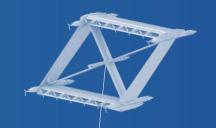
2 Ultra high resistance and lightweight

GROUND STATION
Generator, Power
Converter and Grid
Connection



Key System Advantages

- PATENTED DRONE, vertical take-off and landing
- Aerodynamics specifically designed for AWE
- Advanced safety features
- Power generation on the ground
- Low-cost production technology to scale
- Simple and cost-efficient transportation
- Movable system



Major Achievements

on a restrained budget

- Proof of Concept December 2019
- Technical Demonstrator June 2020
- Designed, constructed and tested 5 drones with continued progress of software and controls, aerodynamic efficiency and safety
- Developed and implemented an autonomous flight control system
- Achieved positive energy generation during multi cycle flight
- On board battery regeneration ensuring safety during 24/7 operation
- Flight authorization obtained by aviation authorities (FOCA)



Technical Demonstrator TD1



Improved Aerodynamic Wingprofile

Value Proposition vs Traditional Wind

Lower cost of electricity (LCoE)	40% -	50%
Greater power production / revenues	+80- 1	100%
Wider deployability		+++
Easier logistics		+++
Less components/weight (tower, foundations, etc)		-90%
Results in substantial lower CO2 emission per MWh produce	ed	

Estimated* LCOE 30 \$/MWh
Lower than fossil fuels

Wind turbine comparison (same rated power) Intellectual Property Rights

Patent ITUD2015000038 1 Granted 2017

"Traction air device for a wind plant & wind plant for electric power production, ship provided with a traction air device"

Extensions: PCT/EP2016/000479 - W02016150561A1 National phases: EUROPE - USA - CHINA - INDIA)

Patent IT102018000007202 1 Granted 2020

"Velivolo senza pilota, metodo di controllo, piattaforma associata e turbina ad alta quota"

PCT/IB2019/055959 - W02020012430 National phases: EUROPE - USA - CHINA - INDIA - BRASIL

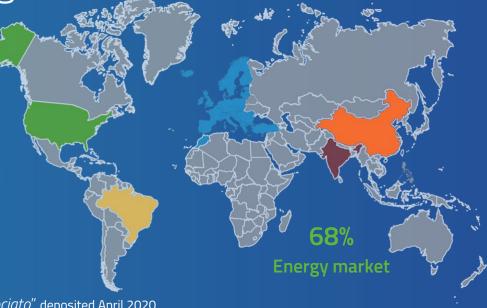
Divisional Patent No. 102018000007202 Pending

"Cavo di ritenuta per un velivolo senza pilota, base e sistema associato" deposited April 2020

Patent IT102020000009307 Pending

"Velivolo senza pilota, metodo di controllo, piattaforma associata e turbina ad alta quota" deposited April 2020

Trade Mark ("Skypull") - Freedom To Operate analysis



Skypull equals Sustainability

CO2 projected savings

2030 2050

Fossil fuel based gensets* (800 gCO2/kWh) 14'400 Mt 1'327 Gt

Traditional wind turbines* (13 gCO2/kWh) 184 Mt 19'200 Mt

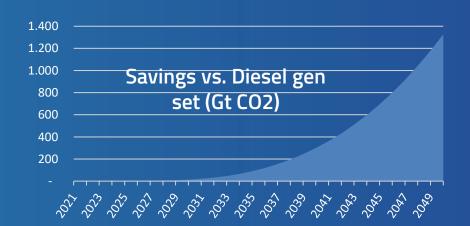
SP generator emissions:

1,2g

Skypull







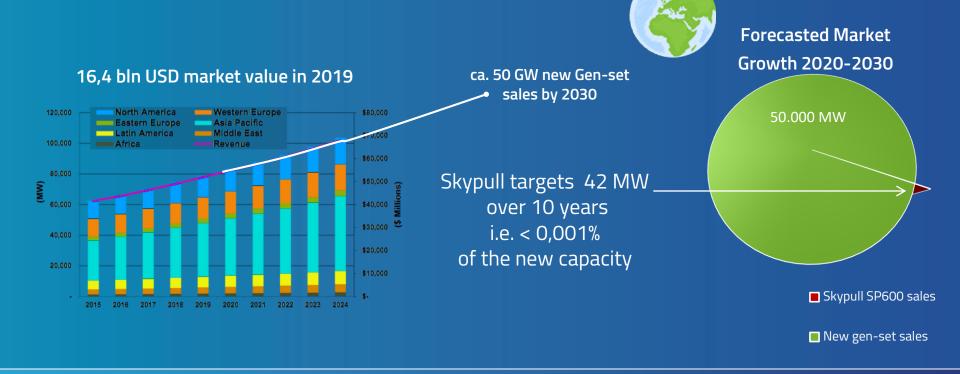
Market Opportunity

Skypull SP600 market applications



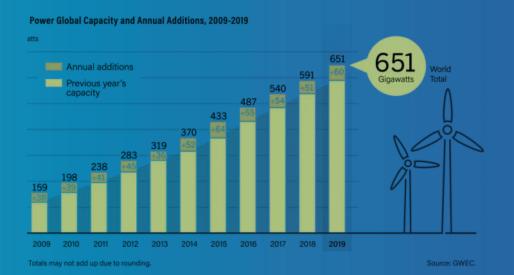
Market Forecast

Skypull SP600 – Diesel Gen-set Market



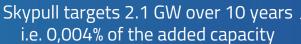
Market Opportunity & Forecast 🗆

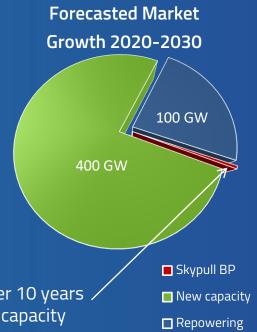
Skypull SP1700 – Utility Wind Turbine Market



USD 49,9 bln market value in 2019

EN21 RENEWABLES 2020 GLOBAL STATUS REPORT





Product roadmap



UAV Wingspan: 3,2 mSystem Power: 25 kW

• UAV mass: 50 kg



UAV Wingspan: 5,9 mSystem Power: 100 kW

• UAV mass: 150 kg



SP 1700

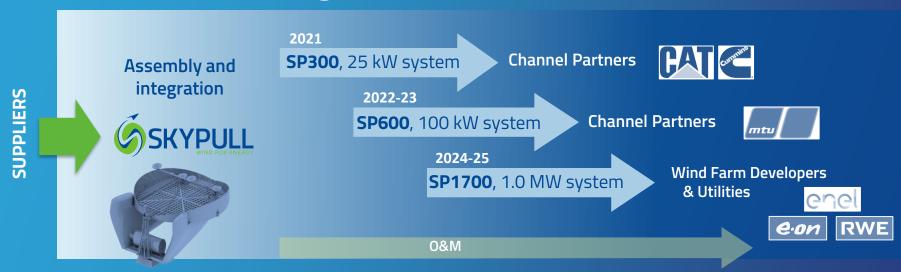


UAV Wingspan: 17 mSystem Power: 1 MW

• UAV mass: 1500 kg



Business model, Target Markets and Timeline



Skypull SP300 / SP600 – Replacing Diesel Gen-sets
Target: 42 MW over 10 years i.e. < 0,001% of new added capacity

Skypull SP1700 – Utility Wind Turbine Market
Target: 2.1 GW over 10 years i.e. 0,004% of new installs & retrofit

Applications: Remote / off-grid locations such as islands, mining, agriculture, disaster relief & defense

Applications: Civil /grid connected (on grid electricity generation plants)

Commercialization / Marketing Strategy

Product timeline

SP300

Test with pilot partners



SP300 Pilot Series sales

Business Development **SP600**

Test with pilot partners



SP600 Pilot Series sales **SP600**

Commercial Product

SP600 market introduction, channel partners

SP1700

Prototype

SP600 Global expansion

2021 PILOT CUSTOMERS

2022 PRE LAUNCH

2023 MARKET LAUNCH

2024 MARKET SCALE UP

Management - Unique Combined Skills, 360° coverage



Reinout Oussoren

CEO

WIND SECTOR EXECUTIVE and serial entrepreneur more than 25 years of experience



Nicola Mona Co-founder Chairman & CCO

Entrepreneur more than 15 years of experience in the AEROSPACE INDUSTRY & various startups



Marcello Corongiu
Co-founder
COO

Managing international ALTITUDE WIND ENERGY projects since 2008



Aldo Cattano Co-founder CTO

Aerospace
Engineer
specialized in
design and
construction of
AERONAUTICAL
COMPOSITE
STRUCTURES



Max Gramaglia

CFO

Deep hands-on experience in FINANCE, M&A AND COMMERCIAL operations

Investment Proposal

Currently raising for 2021

CHF 1.1m

+ CHF 440k already secured

+ CHF 1,5m Total round

Previously raised

CHF 660k Equity

CHF 1.2m Grants & prizes

Use of proceeds



Cap table



Summary Financials

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Sales, # of units										
SP300	1	10	0	0	0	0	0	0	0	0
SP600	0	1	10	25	40	50	60	60	60	60
SP1700	0	0	0	1	10	40	100	200	300	400
FTEs	12	22	30	40	53	65	80	95	107	134
Revenue	71.000	1.208.000	2.892.000	9.407.000	24.793.800	65.871.800	143.143.800	267.363.800	395.263.800	526.843.800
cogs	62.351	1.002.207	2.024.620	5.202.138	14.592.600	34.470.209	74.477.089	140.397.707	207.124.262	275.546.754
Gross margin	8.649	205.793	867.380	4.204.862	10.201.200	31.401.591	68.666.711	126.966.093	188.139.538	251.297.046
OPEX	1.094.000	2.140.000	2.822.000	4.012.000	5.122.000	6.922.000	10.242.000	12.330.000	14.070.000	16.730.000
EBITDA	-1.085.351	-1.934.207	-1.954.620	192.862	5.079.200	24.479.591	58.424.711	114.636.093	174.069.538	234.567.046
13/3/					20%	37%	41%	43%	44%	45%
Cumulative	-2.105.351	-4.039.557	-5.994.177	-5.801.315	-722.114	23.757.476	82.182.187	196.818.281	370.887.819	605.454.864

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Acknowledgement

SEAL of EXCELLENCE delivered by the European Commission

The project **Energy from drones & altitude winds** submitted under the Horizon 2020's SME Instrument Phase 2

by

SKYPULL SA

Switzerland

Following evaluation by an international panel of independent experts it was rated as a **HIGH-QUALITY PROJECT PROPOSAL** passing all assessment thresholds for the 3 award criteria: excellence, impact, quality and efficiency of implementation.

This proposal is **recommended for funding** by other sources, since Horizon 2020 resources available for the specific call were already allocated.





Certificate delivered by the European Commission, as the institution managing Horizon 2020, the EU Framework Programme for Research and Innovation 2014-2020

> The project proposal 101009109, Skypull Energy from drones & altitude winds

submitted under the Horizon 2020's SME Instrument (grant only and blended finance) call H2020-EIC-SMEInst-2018-2020 (H2020-EIC-SMEInst-2018-2020-4) of 19 May 2020 in the area of H2020-EIC-SMEInst-2020-4

H2020-EIC Accelerator pilot -SME Instrument - Green Deal

by SKYPULL SA VIA ALLA STAMPA 49 6967 DINO Switzerland

following evaluation by an international panel of independent experts

WAS SCORED AS A HIGH-QUALITY PROJECT PROPOSAL IN A HIGHLY COMPETITIVE EVALUATION PROCESS*

This proposal is recommended for funding by other sources, since Horizon 2020 resources available for this specific Call were already allocated following a competitive ranking.

* This means passing all stringent Horizon 2020 assessment thresholds for the 3 award criteria (excellence, impact, quality and efficiency of implementation) required to receive funding from the EU budget Horizon 2020.

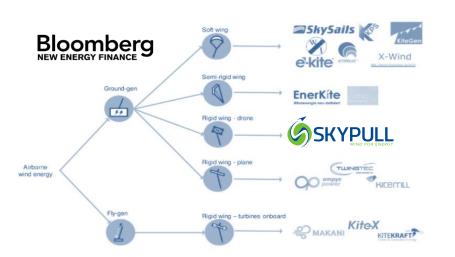
Elisa Ferreira, Commissioner for Cohesion and Reforms Mariya Gabriel, Commissioner for Innovation, Research, Culture, Education and Youth

reference

Acknowledgement and media













Acknowledgement

Statements

"Based on market screening and specific due diligence, **Vestas**, view **Skypull** to have **one of the most promising technologies in the Airborne Wind Industry** and particularly notice Skypull's approach to product design and certification strategy, driven by a strong leadership team"

Airborne Wind Energy "can be a potential game-changing technology"





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