

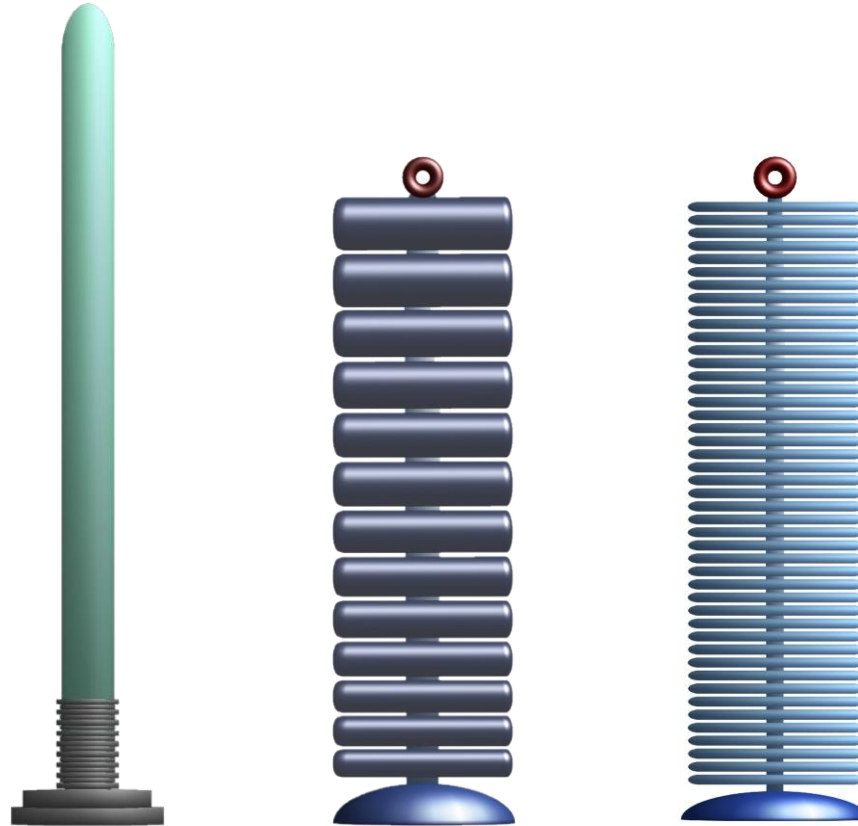
A black and white photograph of the Chicago skyline at night, with city lights reflecting on the water. The image is split vertically by a dark line.

Revolutionary

Renewable Energy Solution

Highly efficient. Bladeless

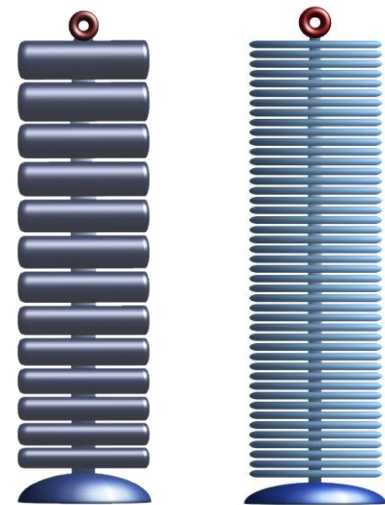
Wind Generators



Design

Working
Principle

AI-controlled
behavior



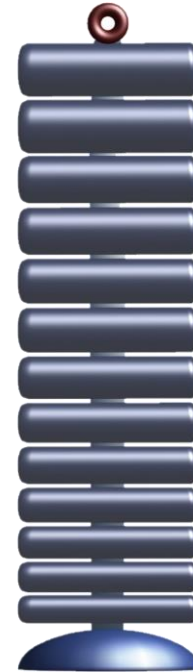
Highly efficient. Bladeless

Wind Generators

7kW



9kW

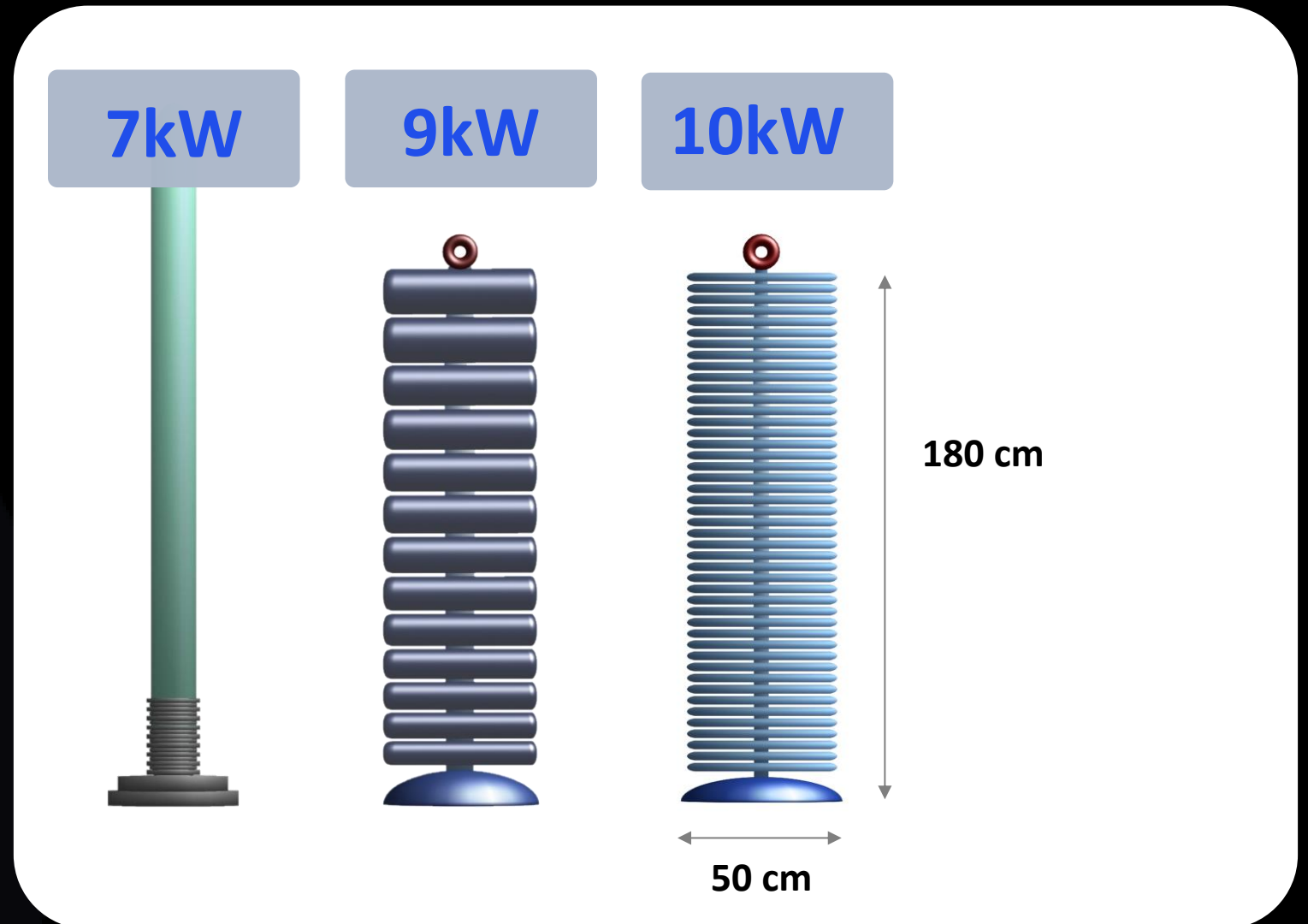


10kW



Highly efficient. Bladeless

Wind Generators



Retrofit

(Plug & Play)



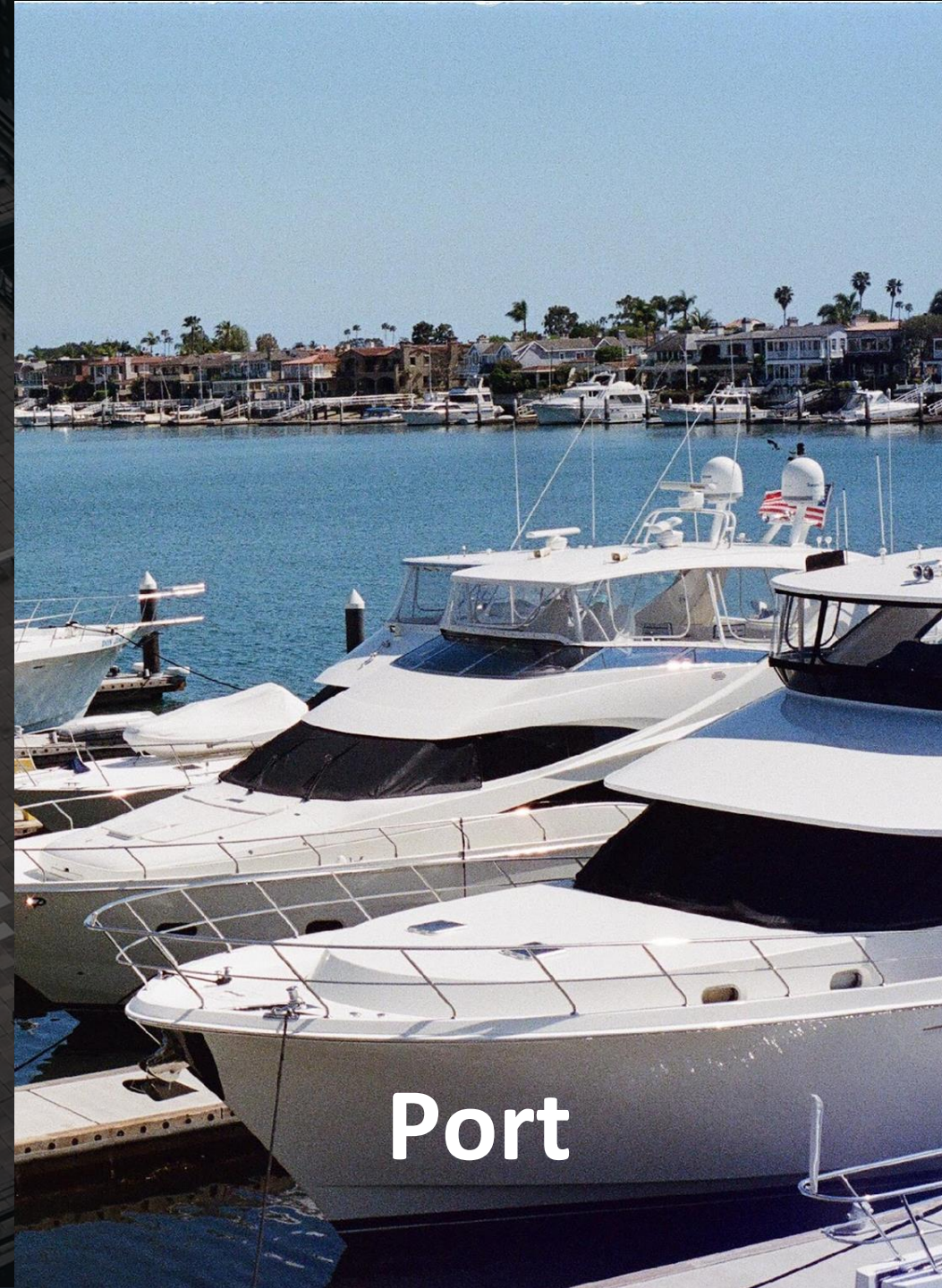


Terrace

HATTIA
N

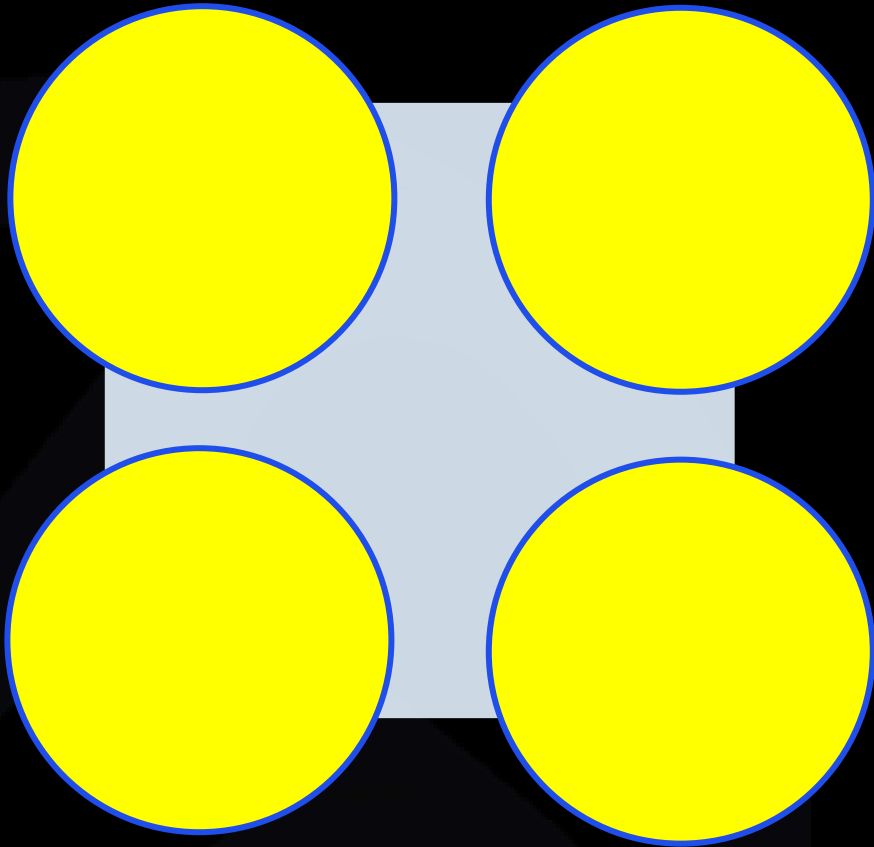


Yard



Port

Highest ROI per m²



4 units per m²

1 m² = 40kW

—

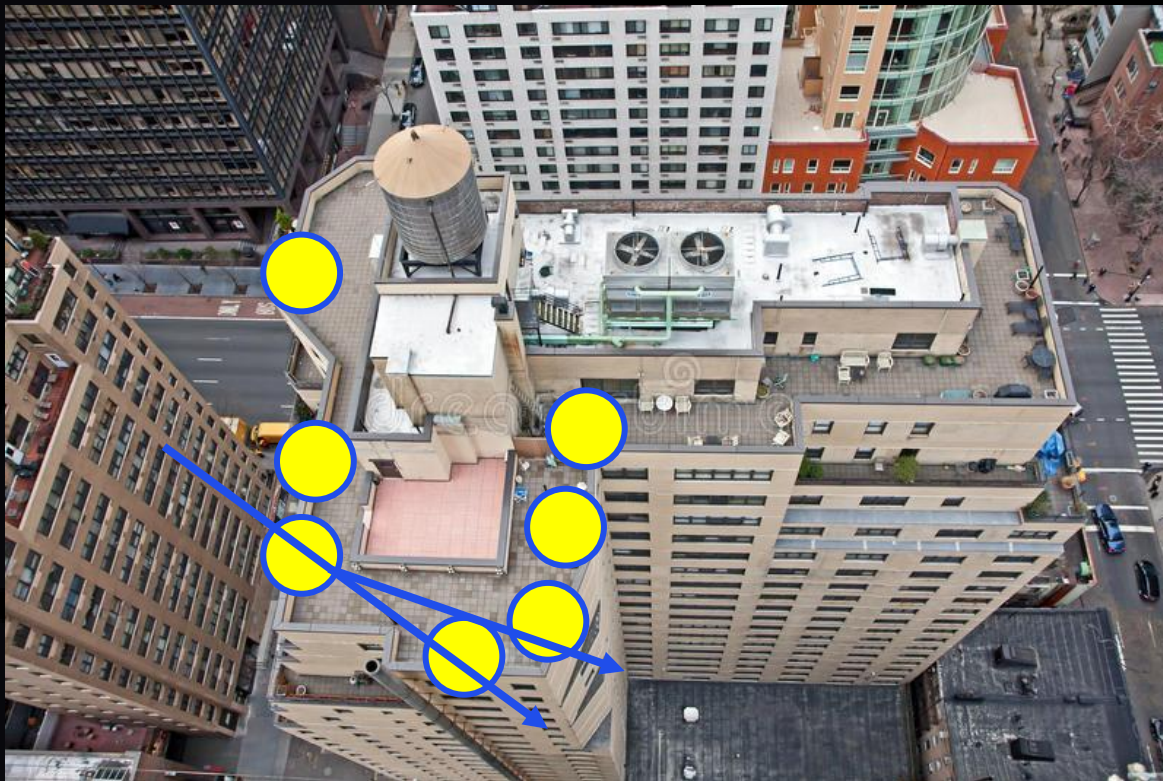
If 50 units / avg per building

Just 50m² = 500kW

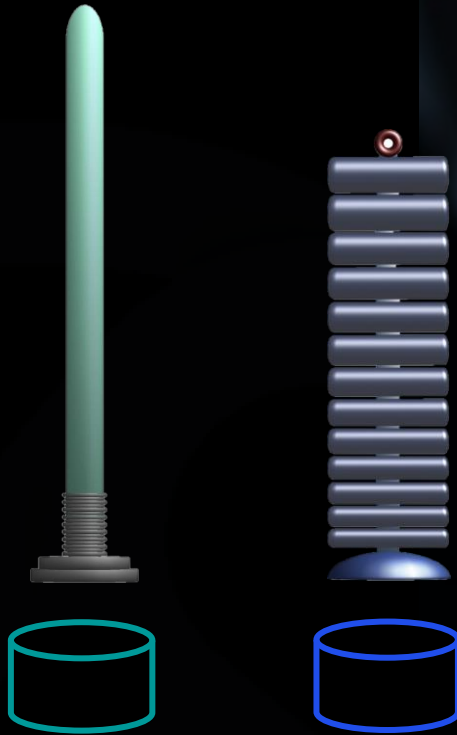
= 100 homes x 5kW avg consumption

AI-controlled Farm behavior for Ultimate Efficiency

Units could be placed in any configuration one to each other and form “a Farm”. The Farm could be Symmetrical or Asymmetrical. The behavior of the whole farm is AI-predicted and AI-controlled to further optimize the wind flow utilization. The outlet flow/vortex of each of the units supply the neighboring units with its residual energy which is harvested by the neighboring units



Value to customers



+ ENERGY STORAGE

24/7

No matter
wind
direction
and speed



Coastal cities – higher Resilience to Storms & Hurricanes

The Technology efficiently works at 2-40m/s wind speed to supply energy during Storms & Hurricanes:

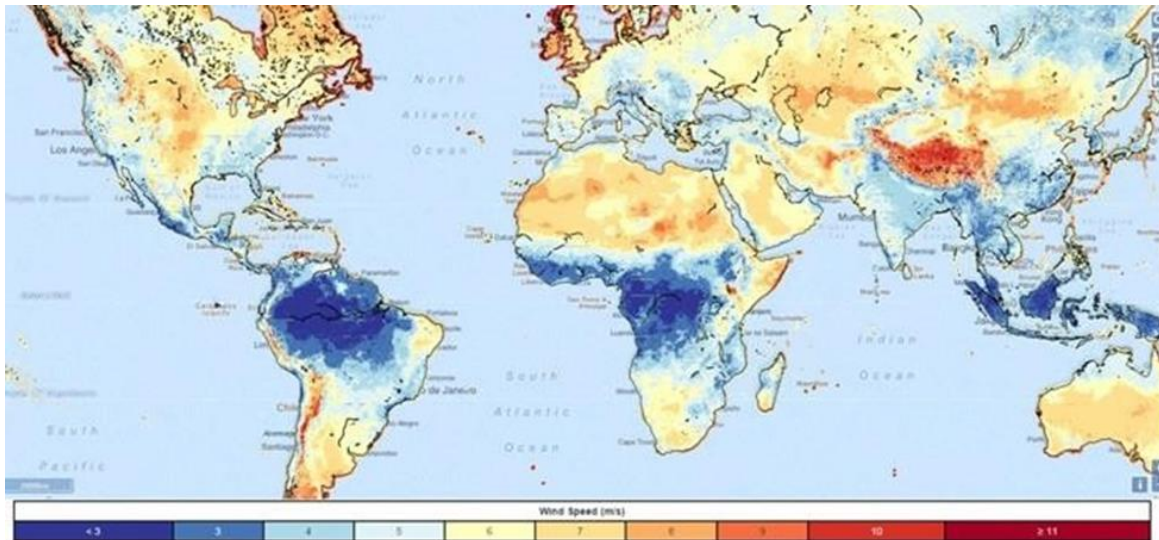
Beaufort Wind Scale

0 --- Calm	less than 1 mph (0 m/s)	Smoke rises vertically
1 --- Light air	1 - 3 mph 0.5-1.5 m/s	Smoke drifts with air, weather vanes inactive
2 --- Light breeze	4 - 7 mph 2-3 m/s	Weather vanes active, wind felt on face, leaves rustle
3 --- Gentle breeze	8 - 12 mph 3.5-5 m/s	Leaves & small twigs move, light flags extend
4 --- Moderate breeze	13 - 18 mph 5.5-8 m/s	Small branches sway, dust & loose paper blows about
5 --- Fresh breeze	19 - 24 mph 8.5-10.5 m/s	Small trees sway, waves break on inland waters
6 --- Strong breeze	25 - 31 mph 11-13.5 m/s	Large branches sway, umbrellas difficult to use
7 --- Moderate gale	32 - 38 mph 14-16.5 m/s	Whole trees sway, difficult to walk against wind
8 --- Fresh gale	39 - 46 mph 17-20 m/s	Twigs broken off trees, walking against wind very difficult
9 --- Strong gale	47 - 54 mph 20.5-23.5 m/s	Slight damage to buildings, shingles blown off roof
10 -- Whole gale	55 - 63 mph 24-27.5 m/s	Trees uprooted, considerable damage to buildings
11 -- Storm	64 - 73 mph 28-31.5 m/s	Widespread damage, very rare occurrence
12 -- Hurricane	over 73 mph over 32 m/s	Violent destruction

Covers 98%
of cases

Worldwide Scalable (Addresses the needs of 98% of market)

The technology works efficiently in 98% of the entire spectrum of Wind's speed:



No matter
wind's direction

In the Range
of 2 - 40 m/s

**Covering 98%
of cases and
geo locations**

Inspired by Nature

No harm for birds, bees
and ecosystems



Value to Customers

1,000

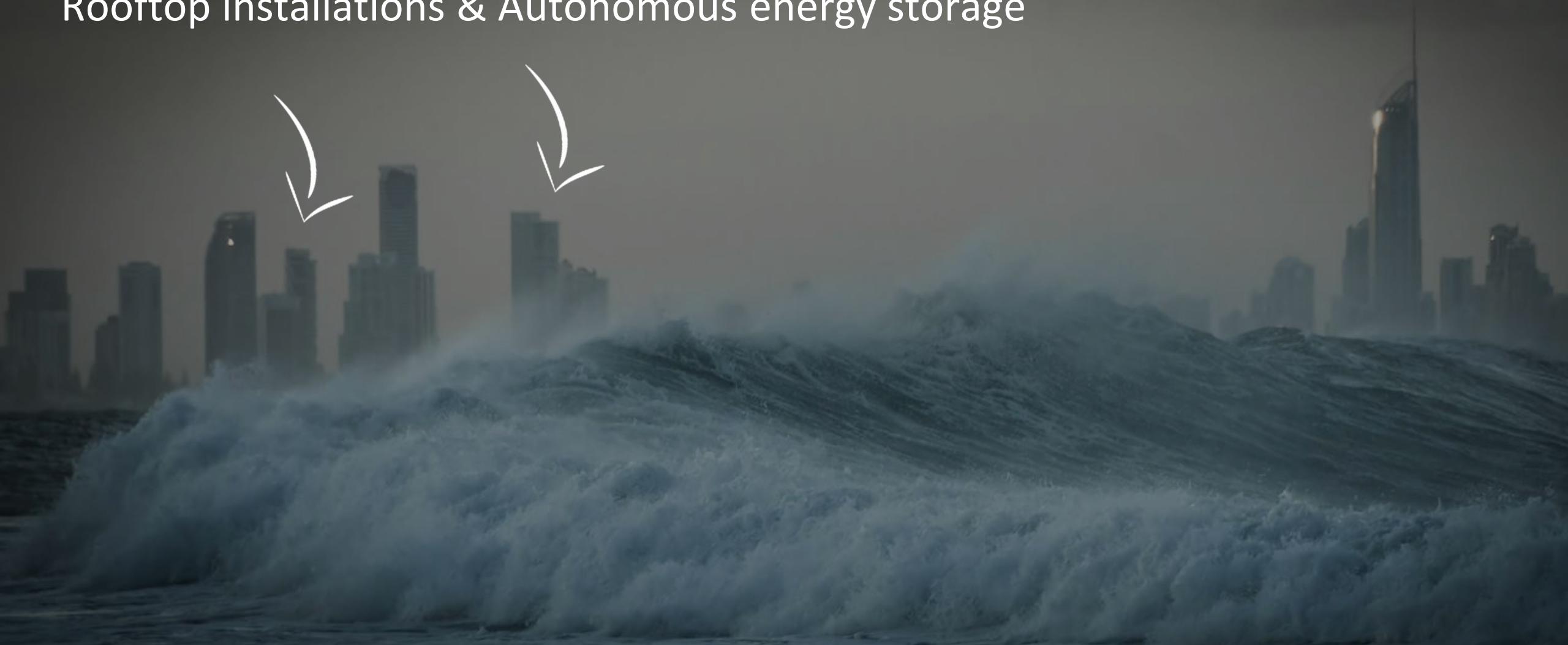
Coastal
Cities

Resilience to
Floods &
Storms

Supply the
increasing
demand for
energy

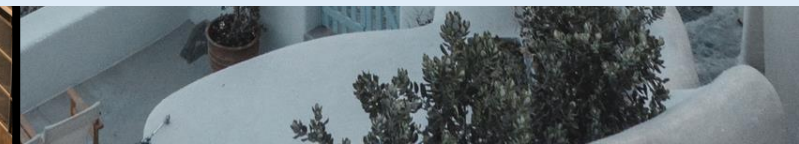
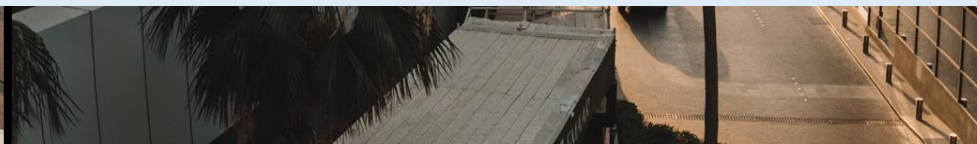
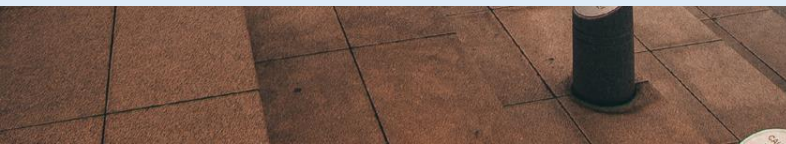
Resilient to also Floods and High Waves

Rooftop installations & Autonomous energy storage





Any city. Any shape of rooftop. 1,000 Units = 10MW



Value to Customers

12,000,000

Building
Owners

Lower
Electricity
Cost

Lower
Price
Volatility

Building owners

Administrative buildings

100 Units

1MW

120 m²

—

CAPEX: \$2.3m

ROI: + \$20m (17 years)



Car Parking for AD Ports employees

Following the future trends for electrical cars, parking slots may be equipped with SWG – less CAPEX for Infrastructural redesign.



Each WG is equipped with high-density energy storage



Value to Customers

900

Ports

Make
transition
toward
electrification

With low
CAPEX

Energy supply for electrical equipment





H HATTA
N



The product is very favorable for PR and Viral Mktg.

IN LINE WITH CURRENT
CROWD INSPIRATION &
CLIMATE CHANGE
CONCERNS

IN LINE WITH YOUTH
(MILLENNIALS) INSIGHTS
AND BEHAVIOUR

Example: **Nico Rosberg** becomes a sponsor (he is famous for his love toward Sustainability) and we run together Formula 1 or similar event for youths on a smaller scale with 100% Clean energy - our SWGs supply the energy for the event.



MAIN FEATURES/ ALL BENEFITS

Features:

- Durable to sandstorms, dust, icing and other
- Wide RH range (0-100%)
- Wide temperature range (50°C to +100°C)
- Noise < 25dB (compliant with the regulations)
- Material: Glass/Carbon fibers
- + **Energy storage**



▪ **HIGHLY EFFICIENT**

1 Unit - 10kW

Small: just 180 x 50 cm

Wind speed: 2 - 40 m/s

▪ **SIZE SCALABLE**

To fit any available space on the rooftops, terraces, yards or else

▪ **RETROFIT**

Plug and Play, Quick to implement. **On & off-shore**

▪ **HIGH PAYBACK**

Capture every breath of the wind no matter its direction 24/7. Energy storage.

▪ **LOW CAPEX**

No preliminary research, no complex infrastructure, no extra land is needed

▪ **LOW OPEX**

Durable, no rotating blades, low-cost maintenance

+ A SOLUTION FOR CITIES' GRID INDEPENDANCY AND RESILIENCE TO FLOODS, HIGH WAVES, STORMS, HURRICANES

Competitive Landscape

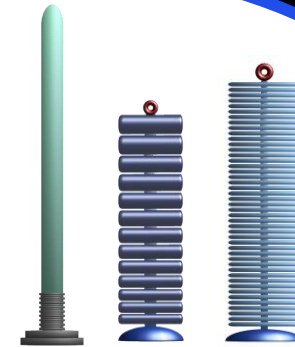
Use current Infrastructure + small space

LOW SIZE-EFFICIENCY RATIO

High
CAPEX
& OPEX



- THE HIGHEST ROI & EFFICIENCY PER M2
- SOLUTION FOR RESILIENCE



Low
CAPEX
& OPEX



LOW EFFICIENCY
(0.1-0.3kW)

Need large space/land + Infrastructure

The team is ready to go



Giulio

Software Engineer

20+ Y in Software and AI



Emilian

CEO, Aviation Engineer

20+ Y in Aerospace

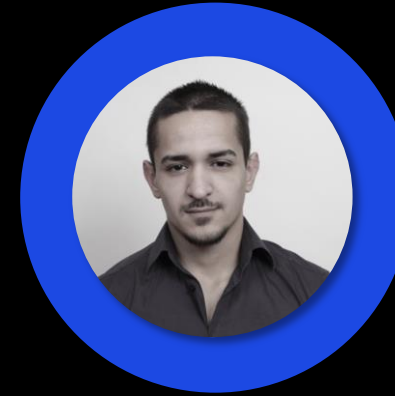


Rennie

CMO

20+ Y in Business

EMBA Sheffield



Plamen

Sales

5+ Y in Sales



Alexandra

Sales

4+ Y in Sales

ERICSSON 

Assembleon

PHILIPS

P&G

Nestlé

We look forward to partnering with you

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