



**KLiUX**

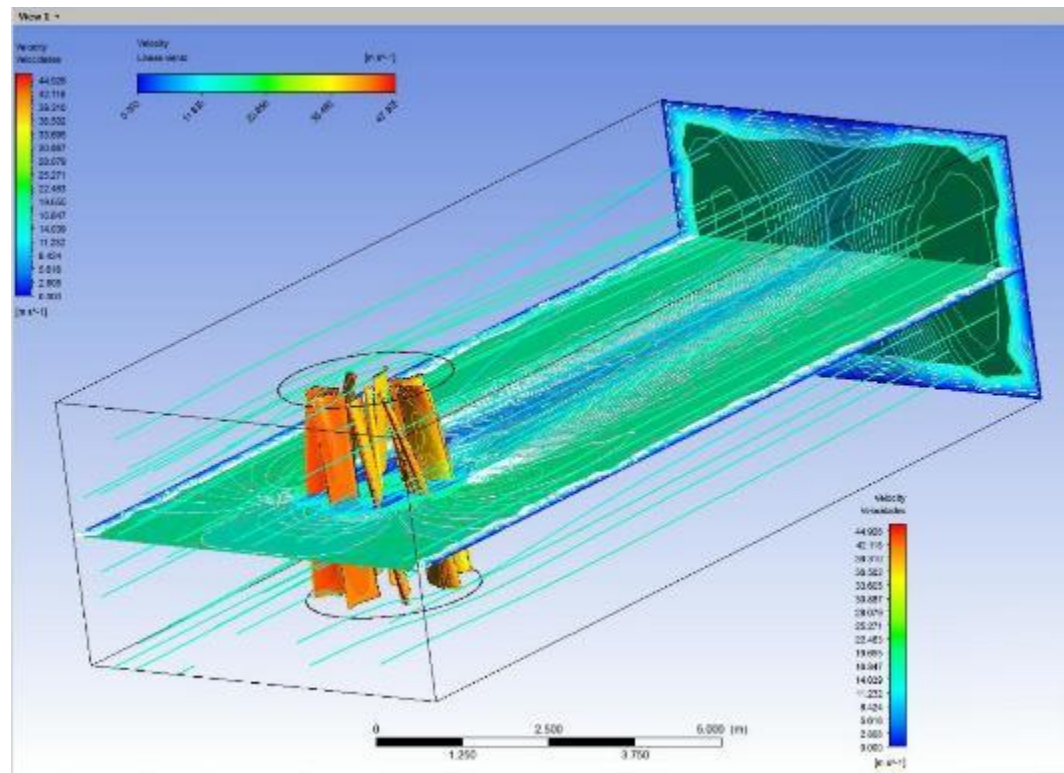
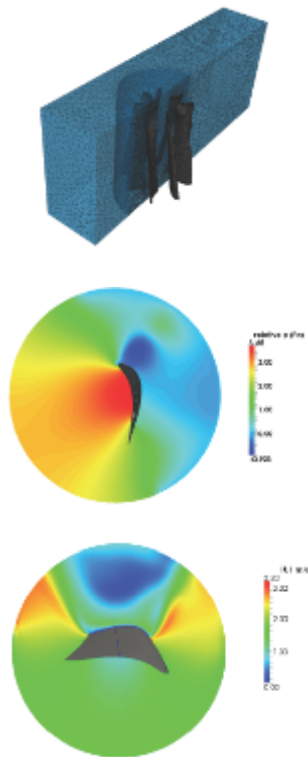
# The SOLUTION: KLiUX Proprietary Technology



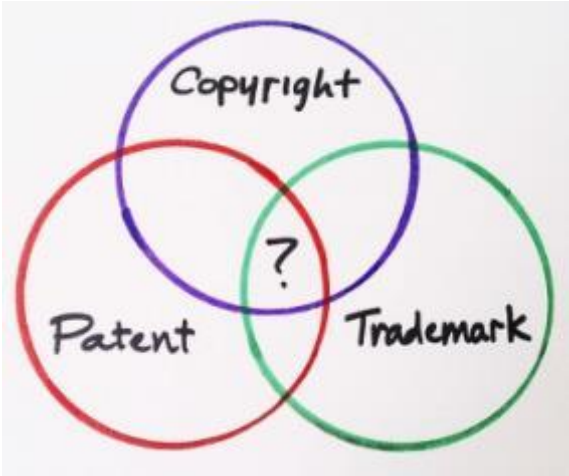
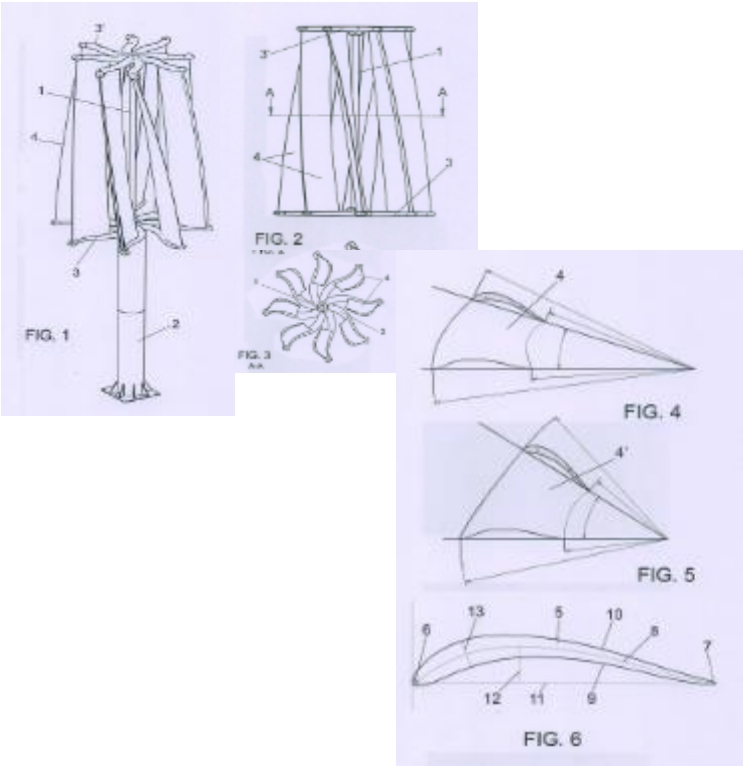
**Vertical Axis  
Wind Turbine  
with  
Design & Technology  
100%  
Made in Spain**

# Intensive investment in R & D

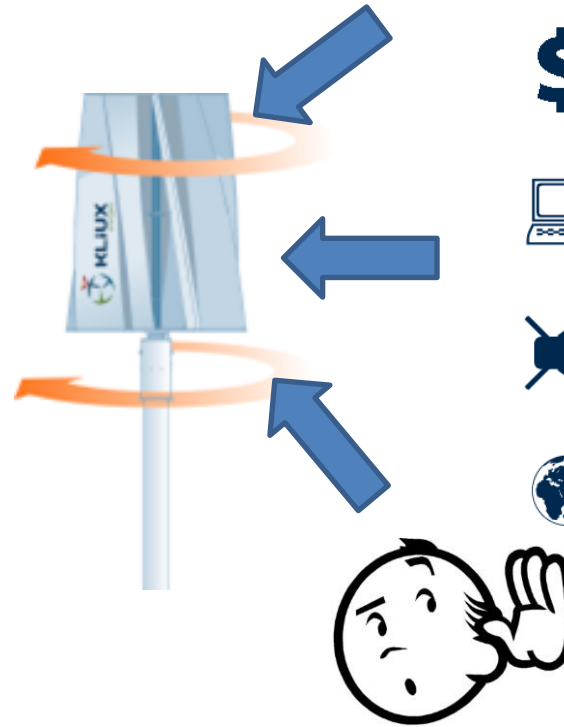
## 3D Fluid Dynamics



# Intellectual Property: Patents & Trademarks



# Advantages of KLiUX VAWTs



## Benefits of Installing a KLiUX Solution



### SAVE FROM DAY ONE

Independence from the electricity grid. No impact from future increases in the price of gas oil. Decreased O&M costs.



### REMOTE MONITORING

Through our remote communication monitoring system you will have access to generation and control data at any time and from most of today's mobile devices.



### NOISELESS

Virtually no noise, which makes it suitable for installation in any environment. Less than 32-6 dBA at 6m/s and from a 10m distance.



**ENVIRONMENTALLY FRIENDLY** Prevents birds from getting near and is respectful of other wildlife. Resistant to extreme environments and weather conditions.

[www.kliux.com](http://www.kliux.com)



# KLiUX Energies is...



**KLiUX**  
energies

... a Company specializing in  
**Distributed Renewable Hybrid Energy Solutions**

... a global leader manufacturer of  
vertical axis wind turbines

**Fenix - Zebra - Dragon - Eagle**  
totally

**silent and integrable in urban residential environments**



# The Small Wind ... vertical axis wind turbines (VAWT)

Small-Wind  
it is a business  
in full expansion,  
technological explosion  
and constant innovation.



# Types of Wind Turbines

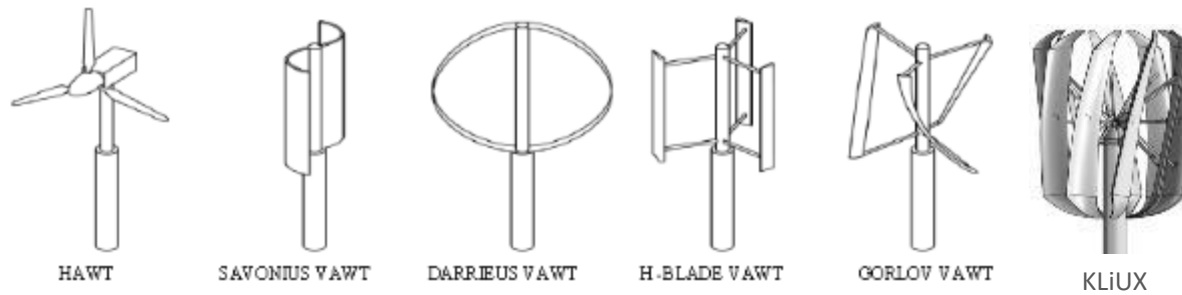
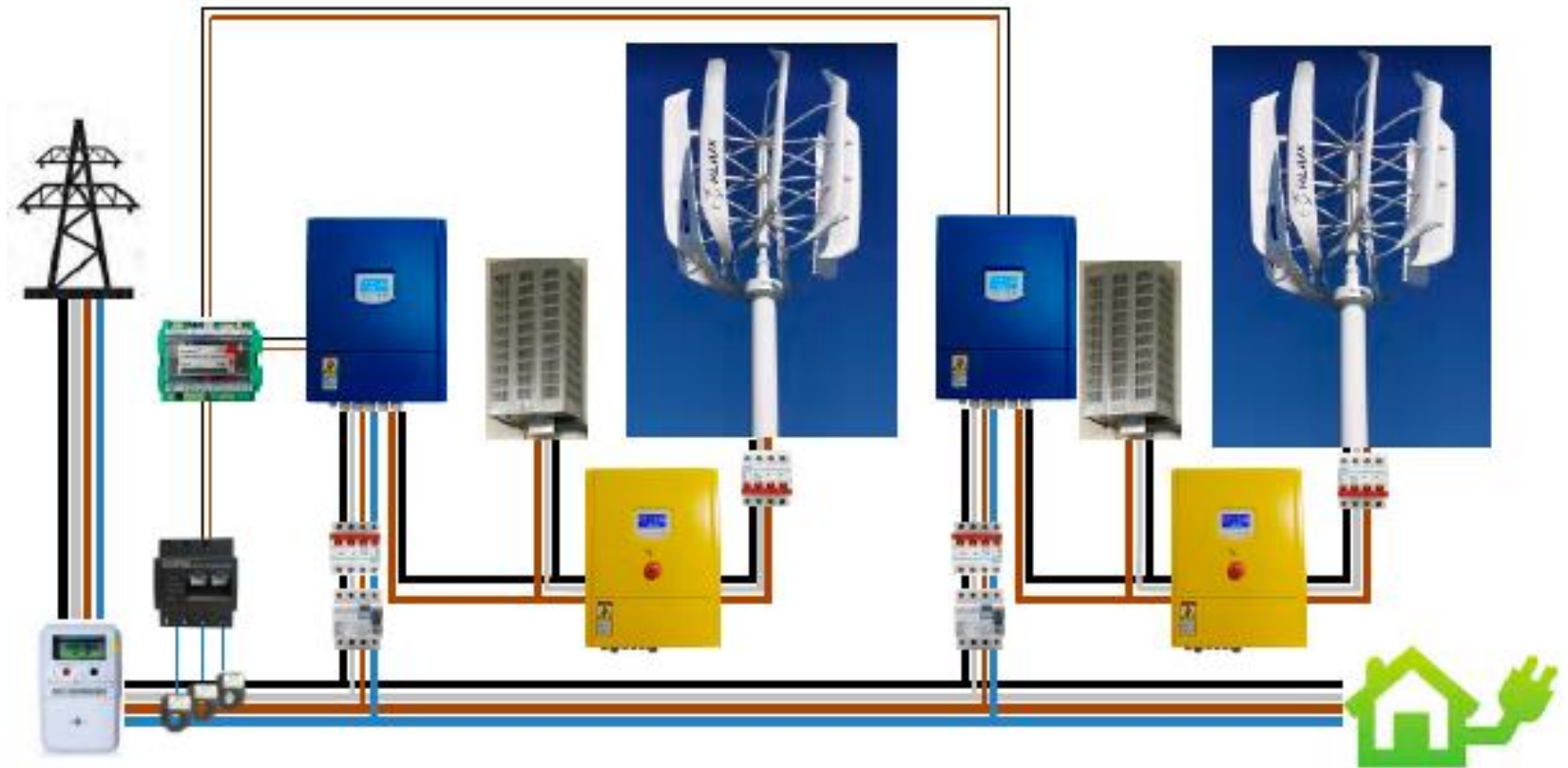


Fig. 2. Different types of wind turbine.

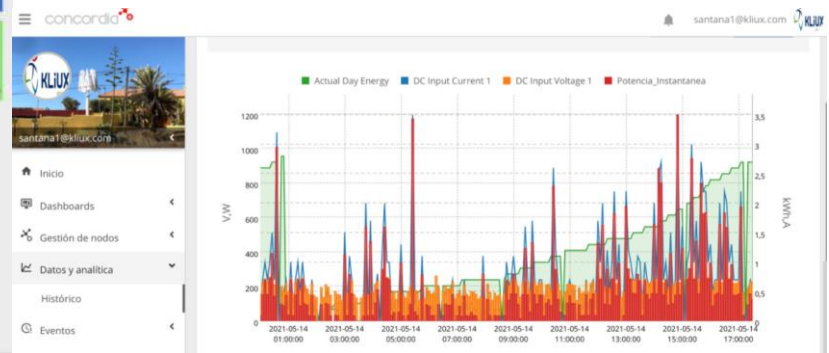
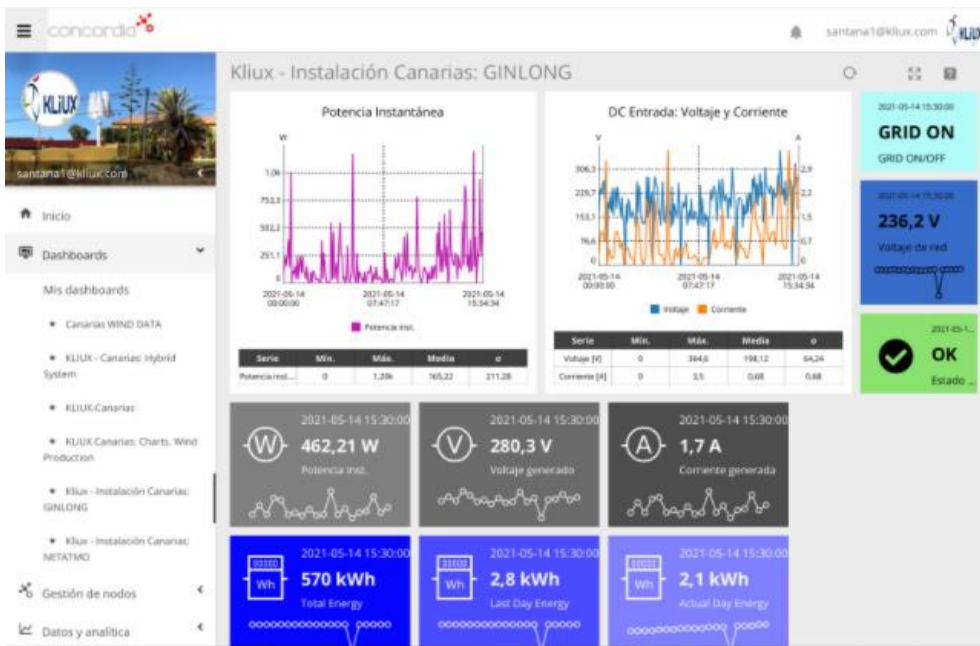


# 3 phase RENEWABLE ENERGY SYSTEM

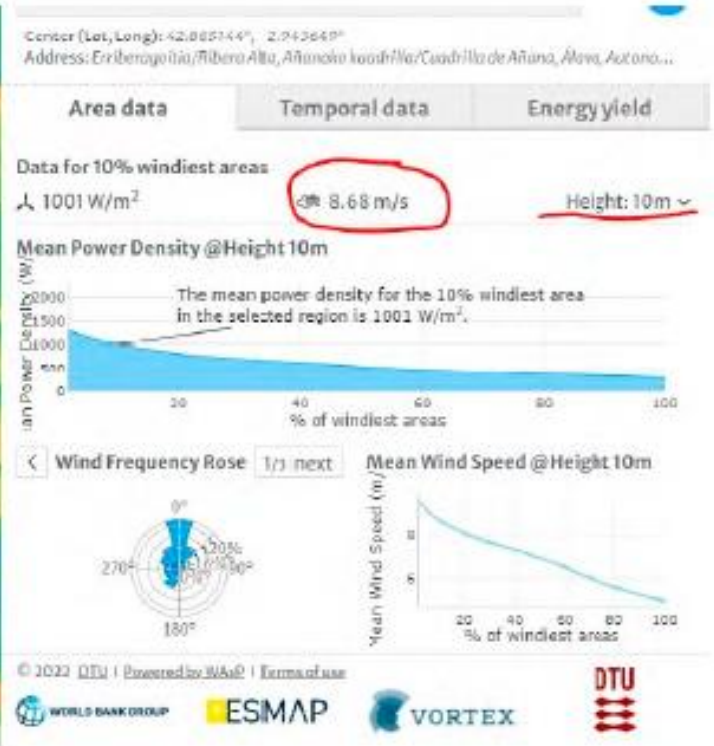
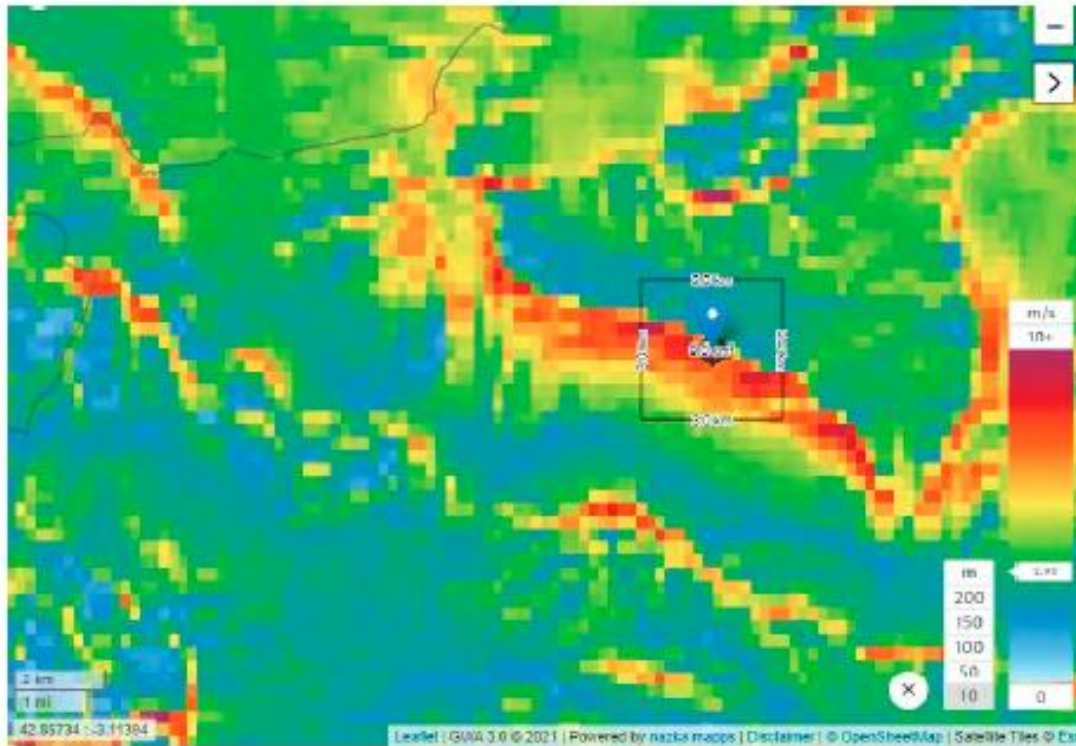


# Intensive Investment in R&D

## Vertical axis wind turbine components



# Project Analysis



# Project Analysis

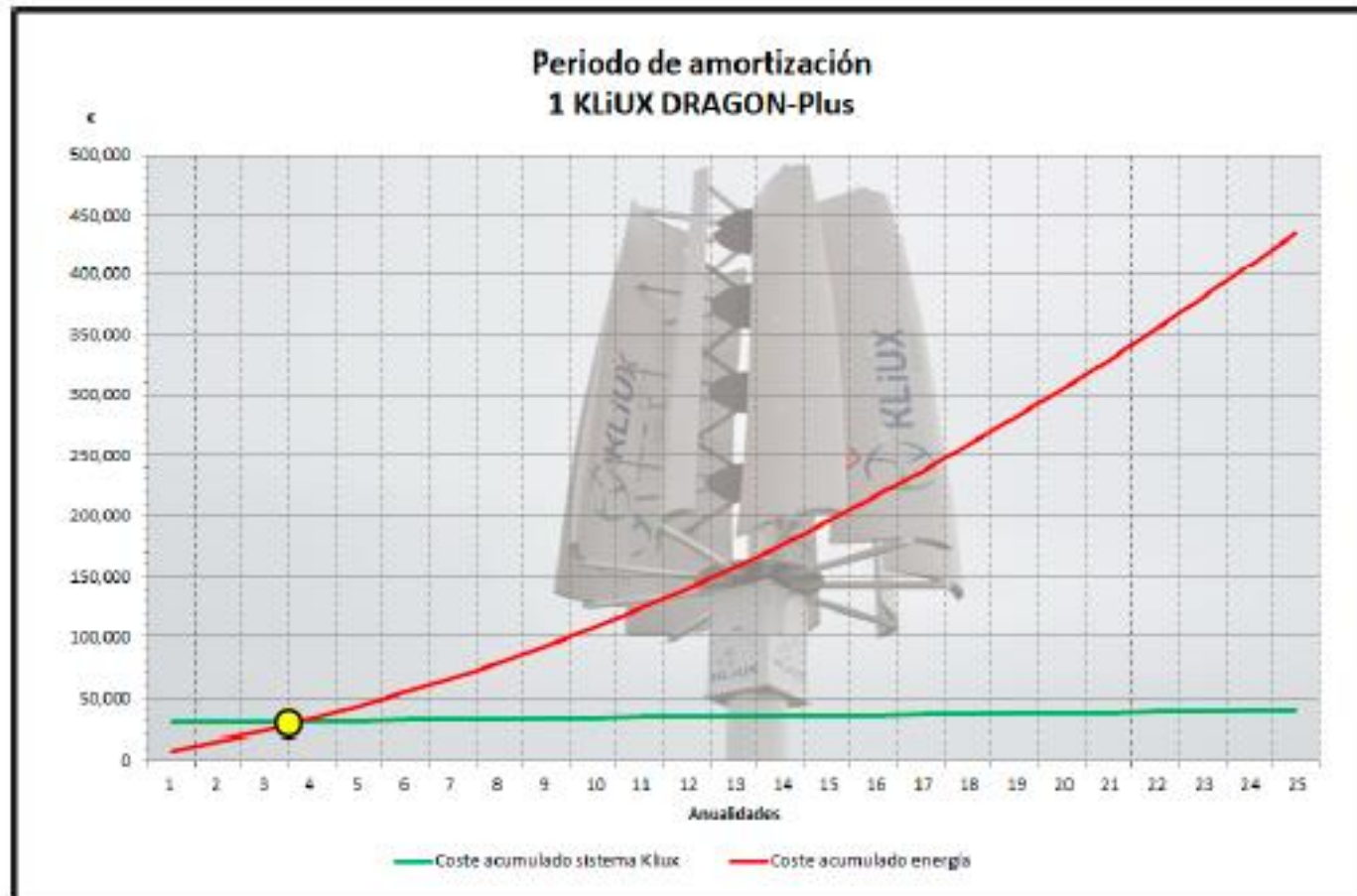
TABLA Y GRAFICO de Energía Anual y Emisiones de CO2 evitadas

Energía Anual Generada: <b>1 ZEBRA-Plus</b>								
	Viento medio anual [m/s]							
	4	5	6	7	8	9	10	11
<b>4 kW Eólico [kWh]</b>	3,053	6,111	9,799	13,460	16,583	18,901	20,365	21,073
<b>Total generado[kWh]</b>	3,053	6,111	9,799	13,460	16,583	18,901	20,365	21,073
<b>CO<sup>2</sup> evitado [kg]</b>	1,984	3,972	6,369	8,749	10,778	12,285	13,237	13,697
<b>Energía total demandada [kWh/año]</b>		14,000						
<b>% de cobertura</b>	21.81%	43.65%	69.99%	96.14%	118.45%	135.01%	145.46%	150.52%

Annual Generated Energy: with 1 KLiUX DRAGON-PLUS								
	Average annual wind [m/s]							
	4	5	6	6.5	7	8	9	10
<b>10 kW Wind [kWh]</b>	5,093	10,574	17,731	21,521	25,312	32,107	37,370	40,877
<b>Total Power generated[kWh]</b>	5,093	10,574	17,731	21,521	25,312	32,107	37,370	40,877
<b>CO2 avoided [kg]</b>	3,310	6,873	11,525	13,988	16,452	20,869	24,290	26,570
<b>Total energy demanded [kWh /year]</b>		14,000						
<b>% coverage</b>	36.38%	75.53%	126.65%	153.72%	180.80%	229.34%	266.93%	291.98%

# Project Analysis

## GRAFICA Y TABLA DE AMORTIZACIÓN



# Value proposition of KLiUX

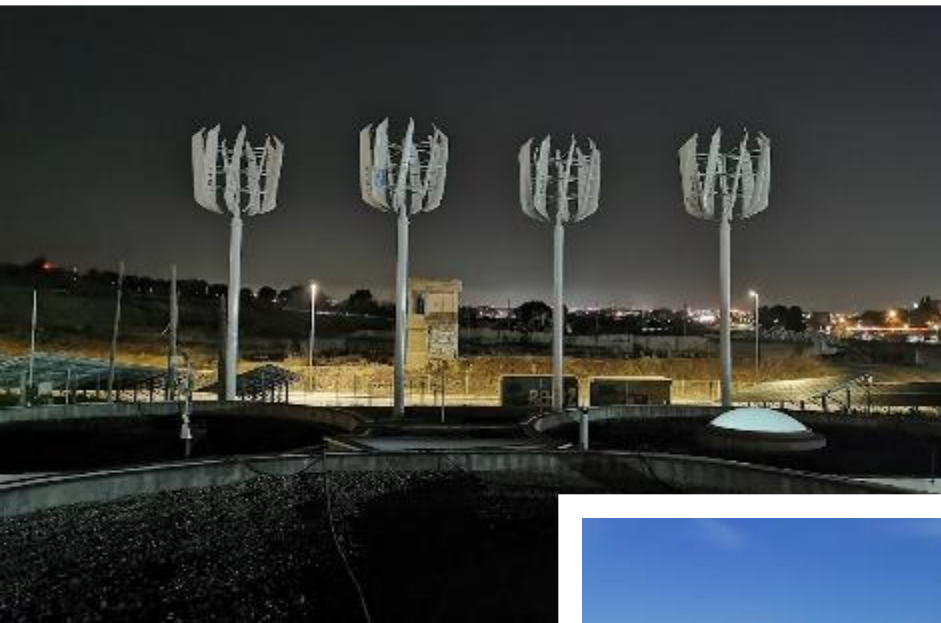
- On-site energy, **Distributed energy**, Endless energy
- Provide **cost-efficient** energy solutions
- Help companies reach their **ESG and CSR commitments**
- **Reduced operating cost** for SMEs and communities
- **Protection** against consumer **price volatility**
- Reduction of **CO<sub>2</sub> emission** on the planet
- Fast **return on investment**
- Reliability, efficiency and **technical Innovation**



# Our Technology



# Our Technology: Water Treatment Plants





# Our Technology



# Our Technology: Gas Service Stations



# Our Technology: E.S BP Corpas Corralejo, Spain



# Our Technology: Urban Wind Solutions



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# Our Technology: Urban Wind Solutions

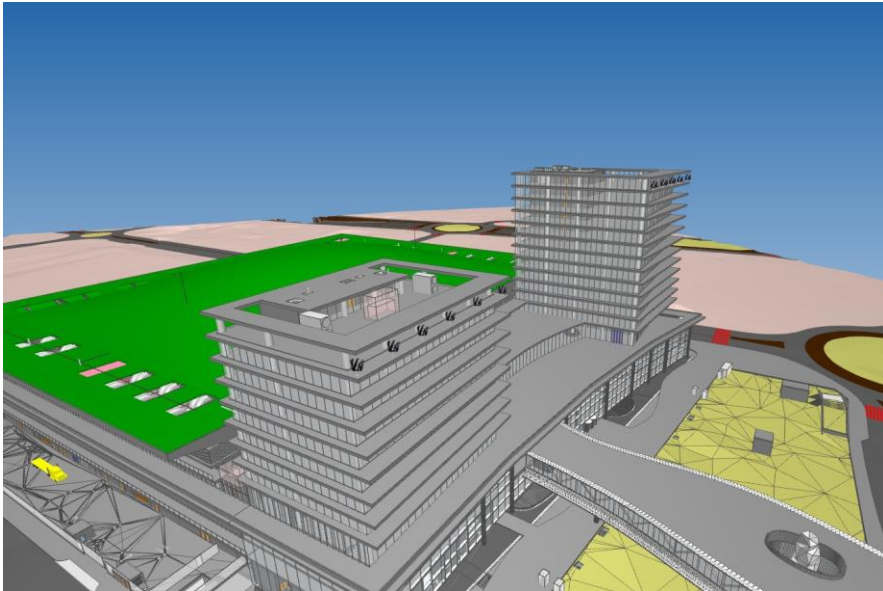


# Our Technology: Hybrid Industrial Solar / Wind

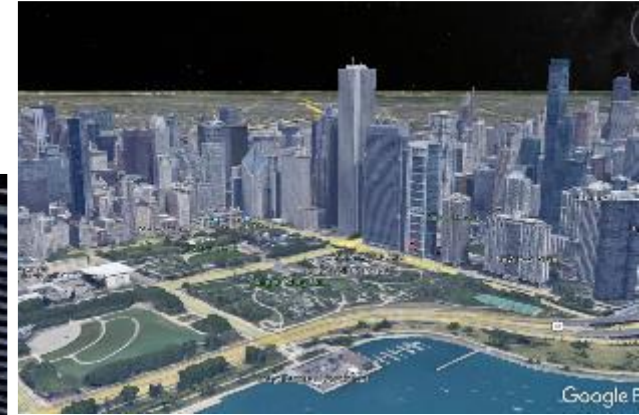




# Our Technology: Urban Wind Solutions



# Buildings Integration



# Buildings Integration



# Our Technology: Urban Wind Solutions



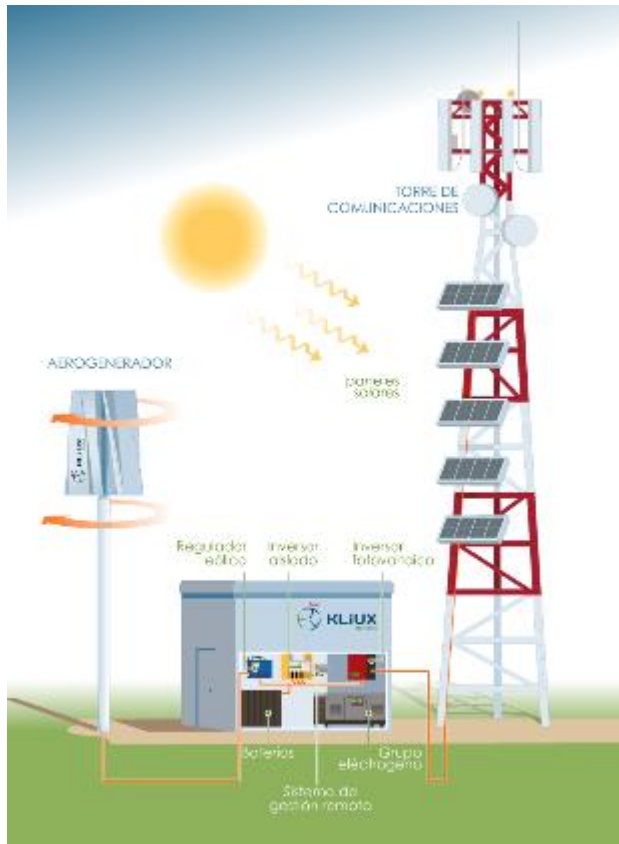
# Our Technology: Hybrid Residential Solar / Wind



# Our Technology: Sport Boat Marinas



# BTS – Telecom Towers



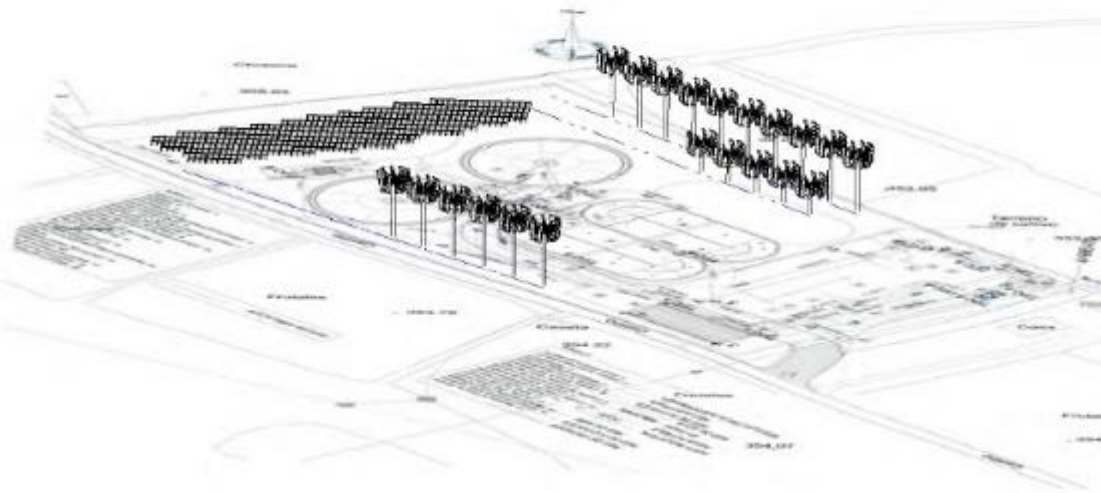
# BTS – Telecom Towers





# Wind Forest: Hybrid / Industrial

PROYECTO HÍBRIDO de 180kW EÓLICO / 200 kW SOLAR FV / 614.4kW BATERÍAS



# Wind Forest: Nature protected areas



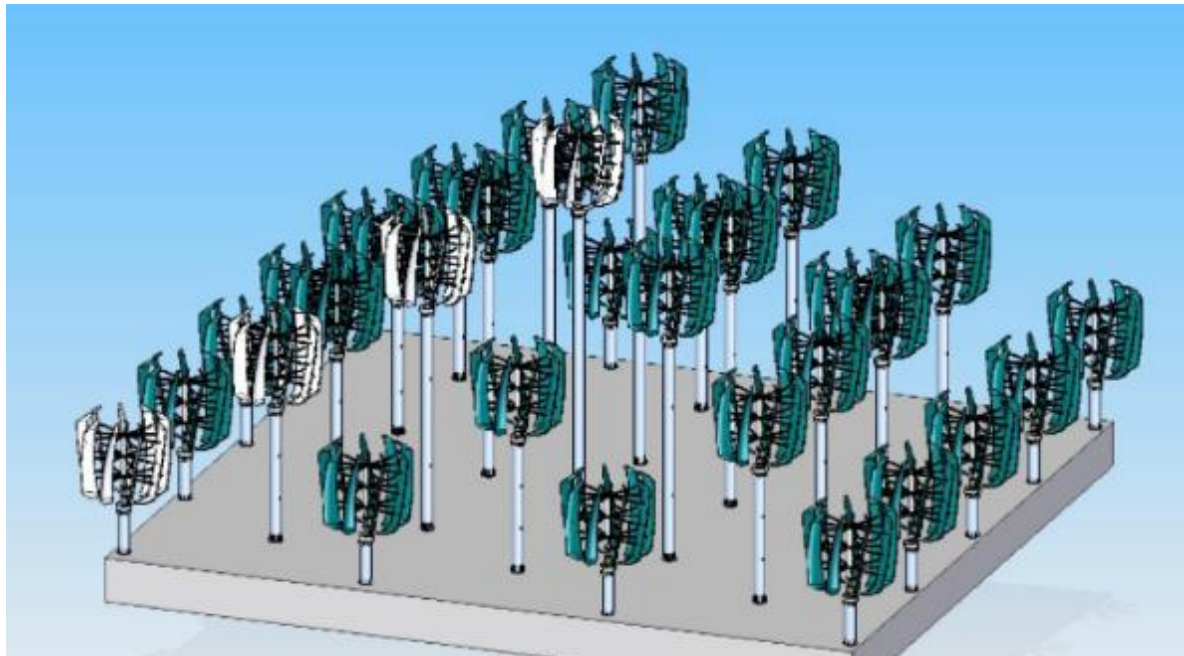
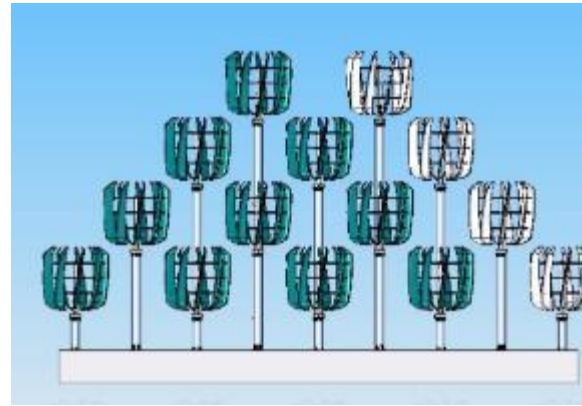
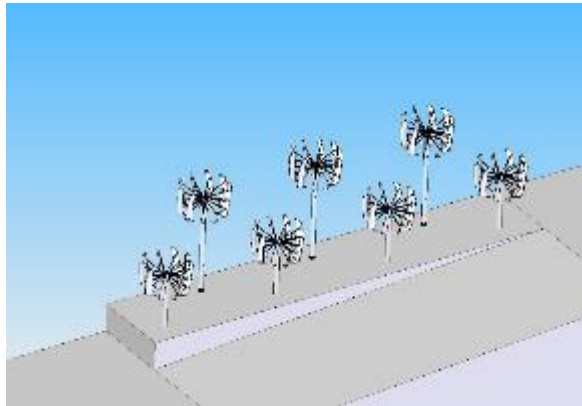
# Wind Forest: Nature protected areas



# Wind Forest: Nature protected areas



# Wind Forest - Floating Platforms





# KLiUX

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