

Nature-Inspired Technology Transforming Gentle Winds Into **Power Giants**



The Challenge

**How to generate
cheap renewable energy,
in regions with lower wind speeds,
where
traditional turbines *and*
solar panels are impractical?**



Why not just use big traditional wind turbines?

1. Necessity of very remote locations
2. Requires High wind-speeds to be cost effective
3. Years of planning AND community agreements
4. exclusive niche of very large investments
(a 2 MW turbine costs between \$3 and \$5 million to install!)
5. High Noise and enviromental impact



The Opportunity- Unlocking the Potential of the underdeveloped Low Wind Speed market



1. Potential Global Market Size is enormous
2. New patented technology achieves Highest Energy Efficiency
3. Sustainable production materials used
(recycled plastics , iron magnets and carbon fiber blades)
4. Highly scalable energy solution suitable for large AND small urban projects



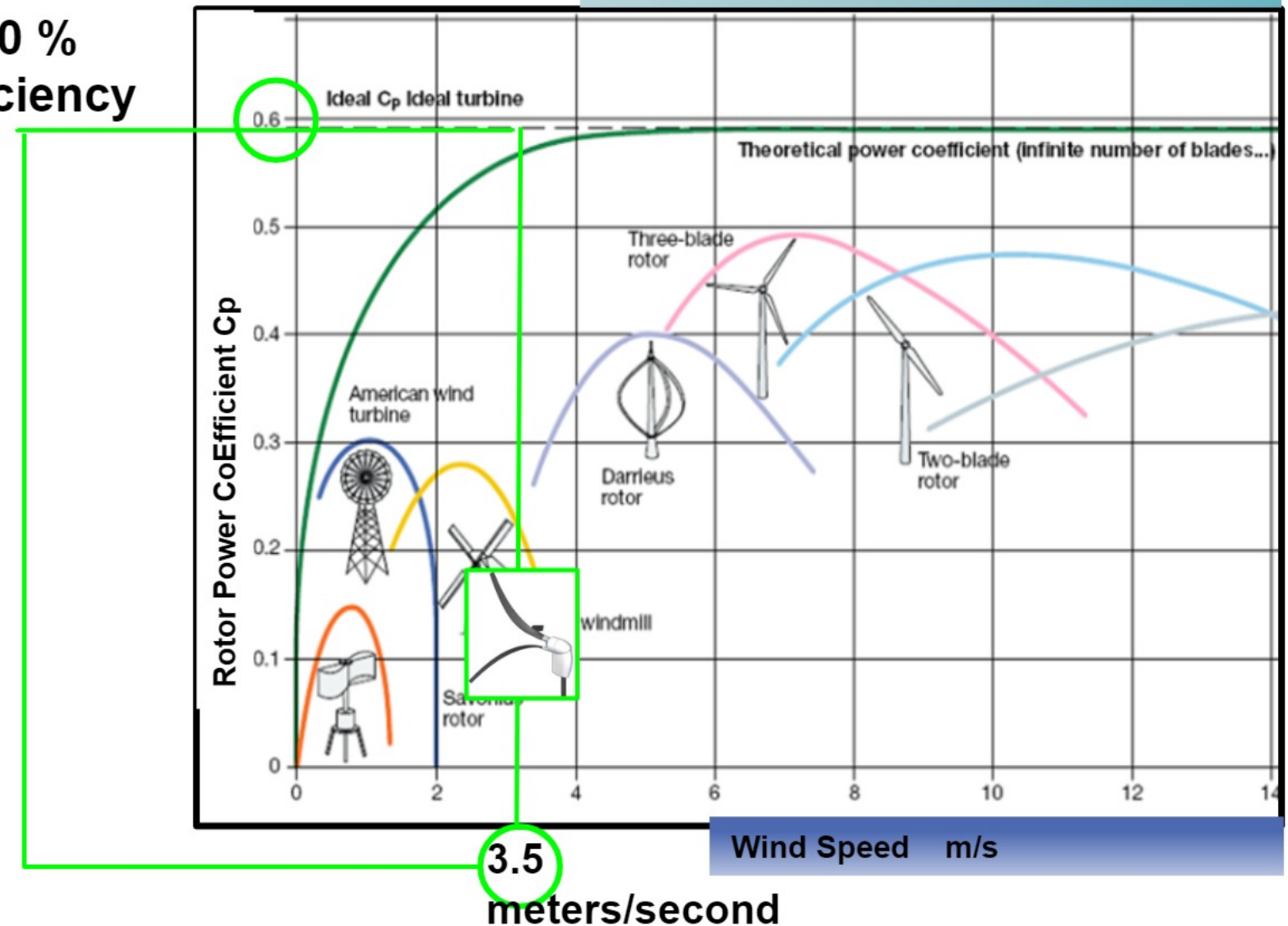
THE SOLUTION- The Bio-Seed Wind Turbine

The refined patented blade shape, inspired by lift-spinning seeds, maximizes energy generated in calmer winds

These areas constitute ~20% of landscapes, previously unsuitable for wind farms

7,5 KWh @ 10000
USD to produce each
unit!

60 %
Efficiency



Close to the ideal coefficient (60%) of efficiency for wind turbines at only 3.5 m/s wind speed

- Patented Protection in USA, Europe, China and & Colombia (WO2014/009934 A2)
- Source: Published peer reviewed paper in Journal: Composite Structures:
- <https://www.sciencedirect.com/science/article/abs/pii/S0263822318302460?via%3Dihub>

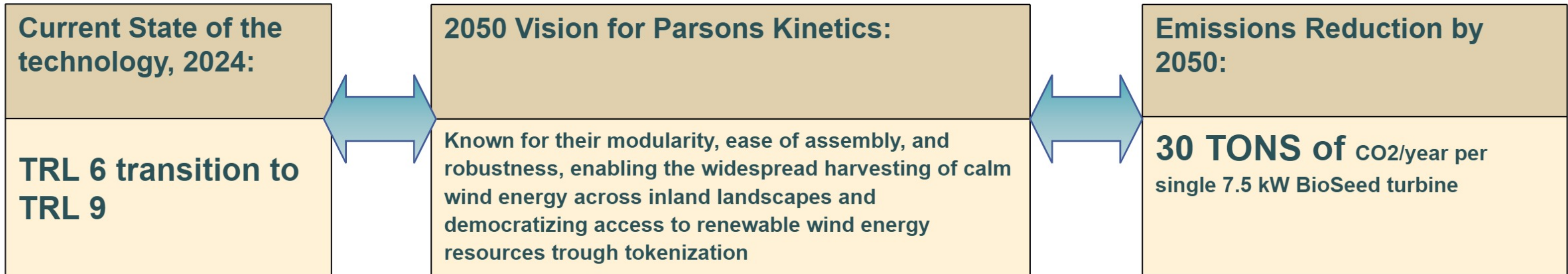
Join us and Invest

Where innovation meets sustainability



Lets revolutionize the wind energy market by:

- Local investment agreements
- Evolving design using sustainable materials and improved tech (MOU's in place with several Technical Universities)
- plant construction plans for the manufacturing of wind turbine and realization of pilot wind farms



\$9,2 billion GLOBAL Market-Potential

1



The global market size is forecasted to reach :

\$920 billion

by 2030

(=100%)

Total for
Wind Energy
10%

1%

Parsons BioSeed wind turbines, target the 1% of the distributed energy demand

Serviceable Obtainable Market ~

\$9,2 billion

2

Clients: SMALL AND MEDIUM ISLANDS



There are about **900,000 official islands** in the world and accounts for roughly 1/15th of the total land area of Earth.

- Imported Fossil fuels are expensive and the main polluting electricity source
- Reduced land availability
- Ideal Wind conditions

3

Clients: Data Centers & other remote energy intensive industries

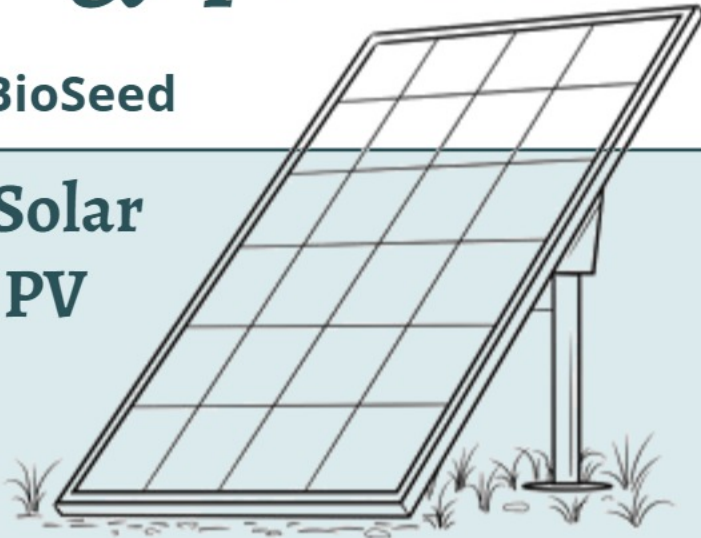
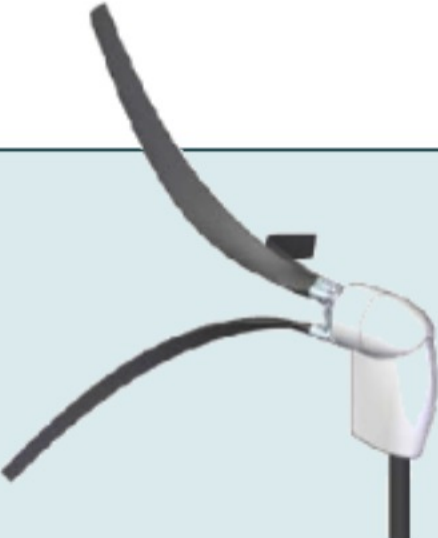



Data center energy consumption is expected to increase due to the **explosive use of AI** and green energy demand

- Data centers could double their electricity consumption in just two years. That means they would devour as much energy in 2026 as the entire nation of Japan, with a population of 125 million (source [New Scientist](#))
- Often remotely located high energy consuming industries (i.e. Oil and gas , mining, ports etc) often require quick fix for their CO2 emission chain

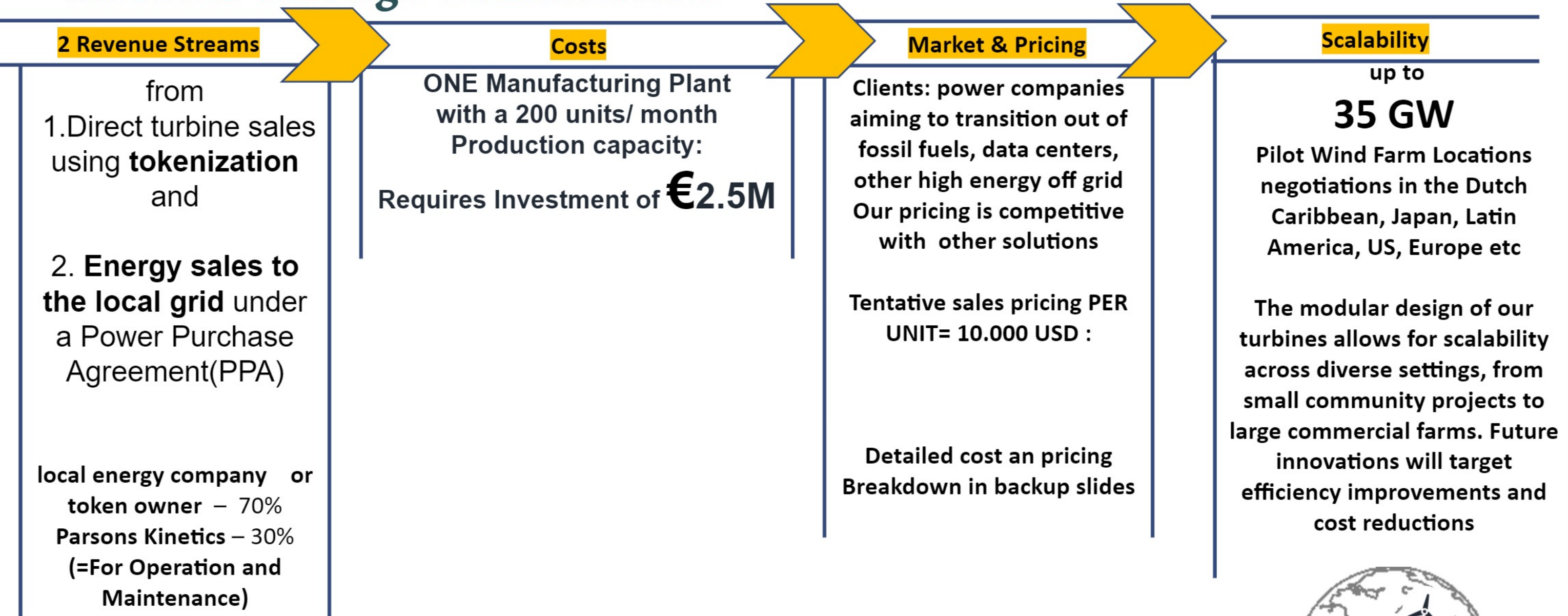
Solar PV as the main competitor- similar cost of energy per MW

Table 1. Comparing Solar PV vs BioSeed

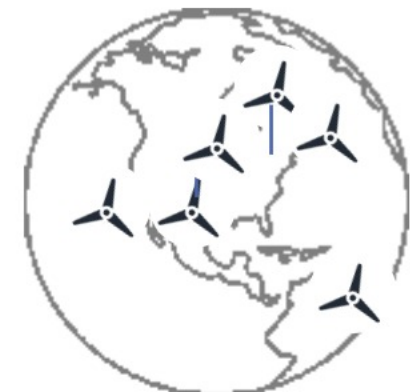
Property	Solar PV	Parsons BioSeed Turbine
Levelized Cost of Energy	 \$24 to \$96/MWh	 ~\$52/MWh (is in the same range as Solar) 
-Energy delivery -during peak demand (~6 to 8 pm)	--Between 6 am and 6 pm - none during peak demand	-At least 16 houres per day - also during evening peak demand
Land Utilization	3 Ha per Mw and land remains <u>UNUSABLE</u>	16 Ha per <u>USABLE LAND</u> Lands <u>remains usable</u> for agriculture, leisure, housing

The 2 Business Models and revenue streams:

1. B2B under a PowerPurchaseAgreement and 2. B2C through direct sales of turbines through Tokenization



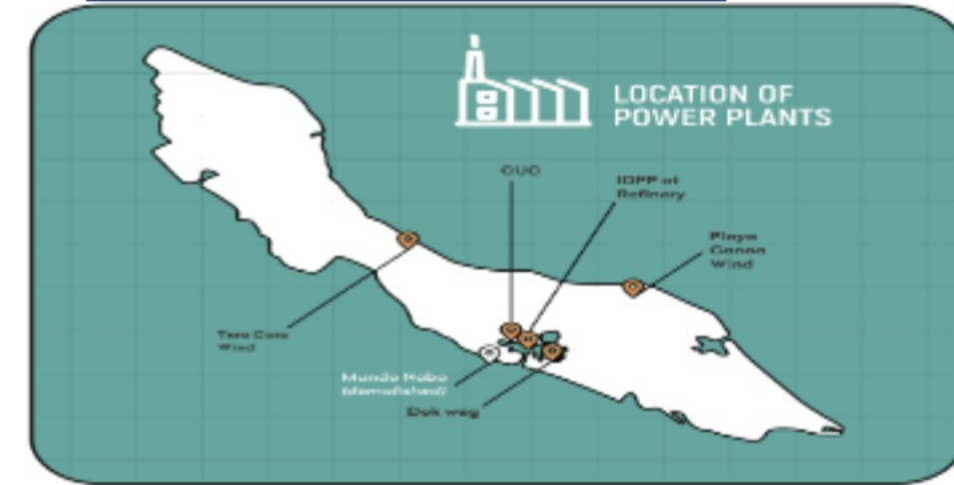
Success will be measured by units sold, the percentage of market penetration, cost reductions achieved through scale, and the long-term sustainability of our energy production



First large scale Pilot Project- Carribean Dreams turned reality

- Curaçao sets as objective achieving 65 MW of wind electricity production by 2025
- MOU available from the government, resulting from BD visit in person by the Parsons Team in January 2024, which cover:
 - Factory and maintenance training using local personnel
 - Technical Agreement with Aqualectra National Energy Company
- Pilot project showcases the BioSeed turbines' potential and Demonstrates HUB potential for the whole Caribbean Market
- Curaçao Part of the EU and eligible for EU HORIZON grants and subsidies of up to ~50%
- Several ideal locations identified where traditional Wind turbines are not feasible (e.g. port, refinery, asphalt lake, remote leisure locations etc,etc)
- Technical cooperation between Universities of Curaçao and Bogota (TU Delft pending)

Curaçao



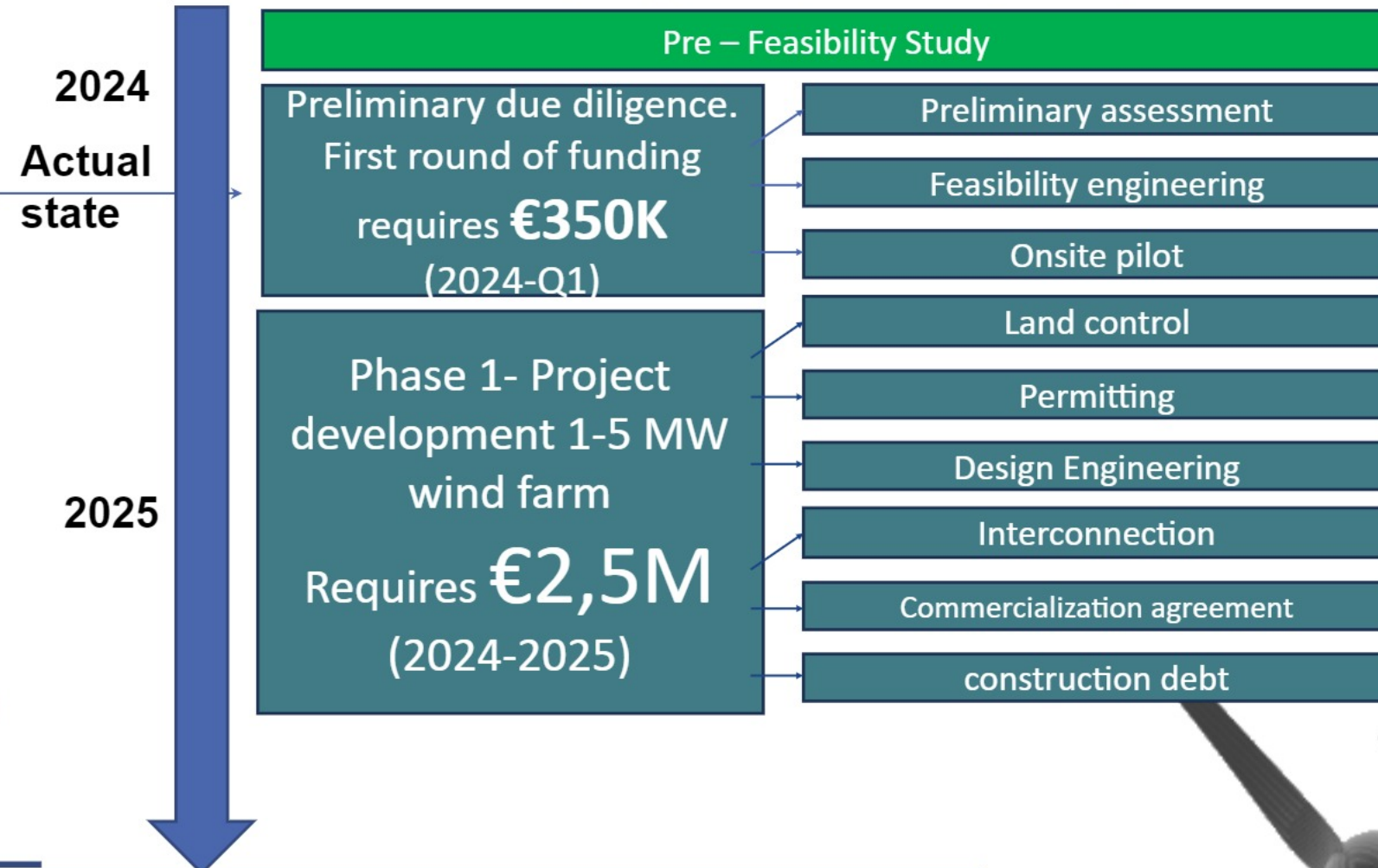
The Pilot Project in Curaçao

Tentative Timeline and Objectives

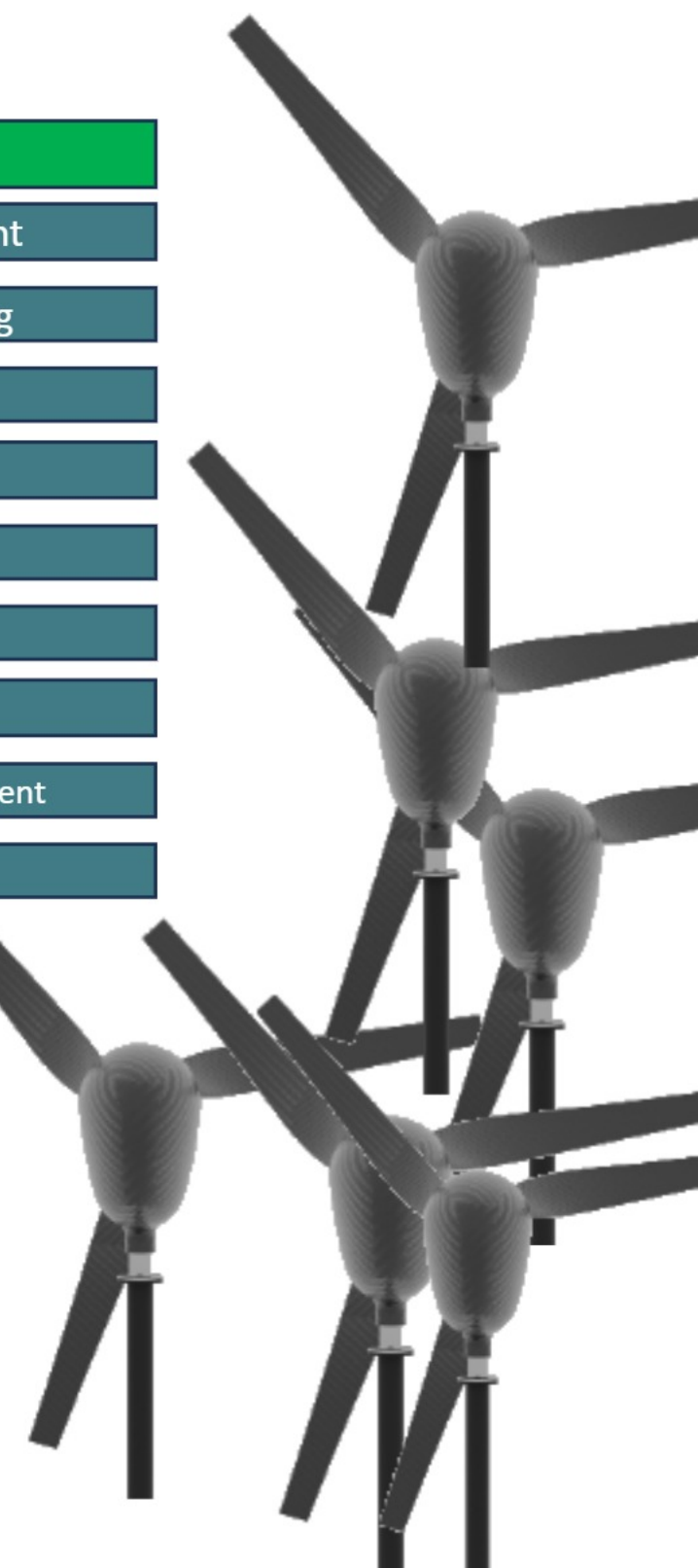
Key Objectives:

- Increase renewable energy contribution to the island's grid
- Test and validate the performance under real-world conditions
- Demonstrate environmental and economic benefits
- making use of recycled materials and sustainable magnets in a local production process
- Make use of grants and use Free Zone tax advantages to demonstrate export potential

Tentative Timeline

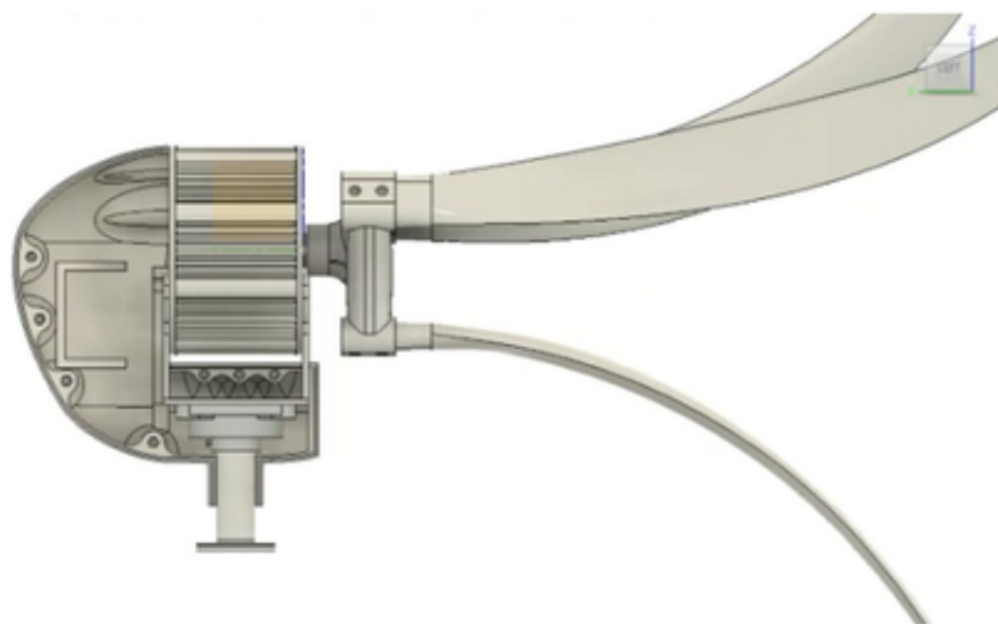


The project aims to produce up to **5 MW** of clean energy, reducing CO₂ emissions by **40.000 tons** annually, and setting a precedent for future renewable energy initiatives



Data Sheet – Bioseed 25K

Bioseed 25K – CF



Product description

The 25 kW Bioseed turbine is the largest version of the bio inspired turbine series, very useful in distributed wind generation projects and compatible with solar parks.



25kW

Rated Power



20m

Diameter



58%

Efficiency Cp

Specifications	Bioseed 25k
Power generation	25 kW – 3 phase 220v
Dimensions	D: 16m L: 6,5cm Installation: 25 to 30 m weight: 580 kg
Blades	3 x (10 m) Materials: CF: Carbon Fiber
Generador	25kW Permanent Magnet Generator
Monitoring	RPM, vibration, temperature, current, voltage, positioning, wind speed.

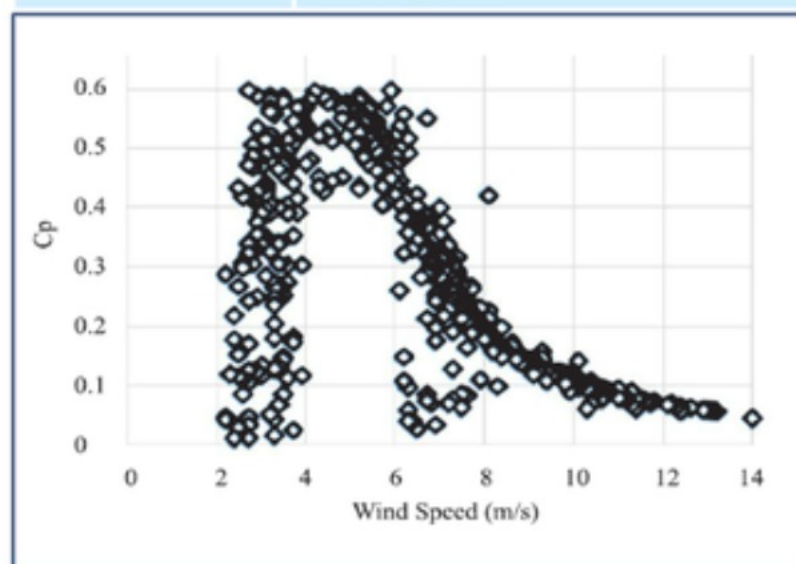


Figura 1. Power coefficient

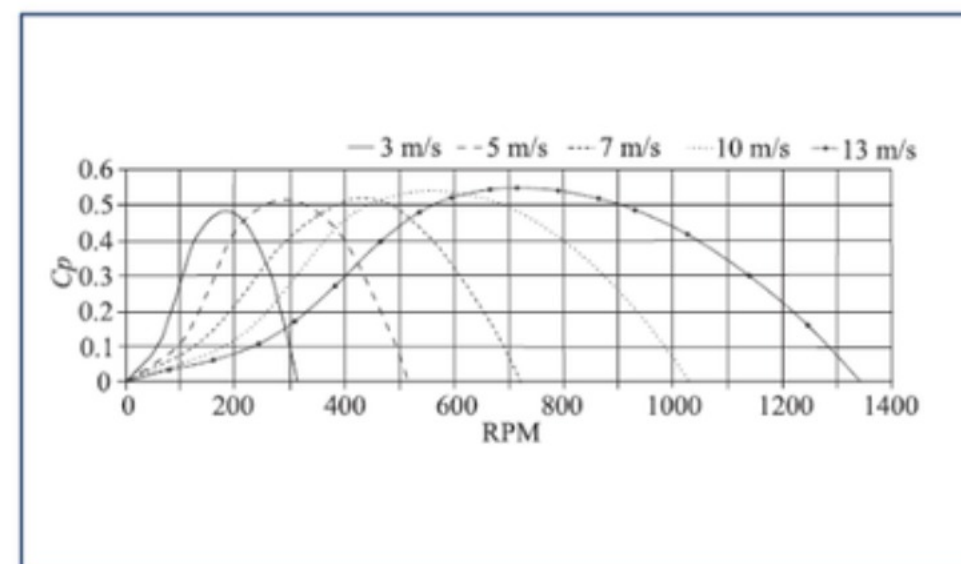
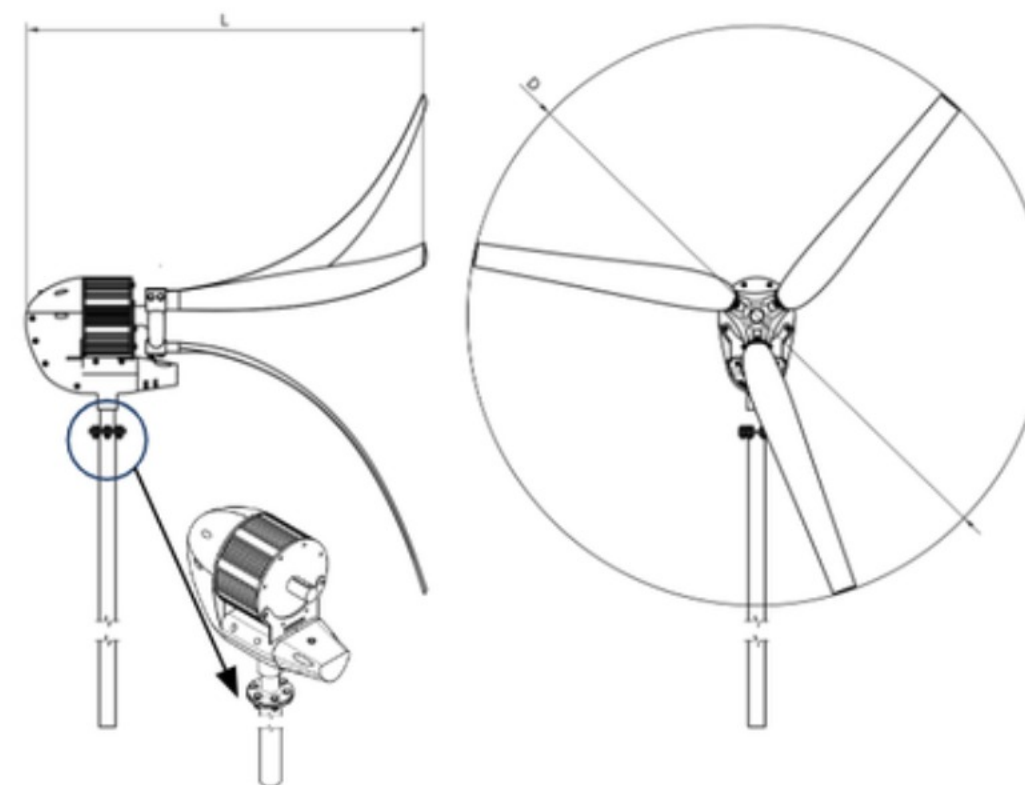


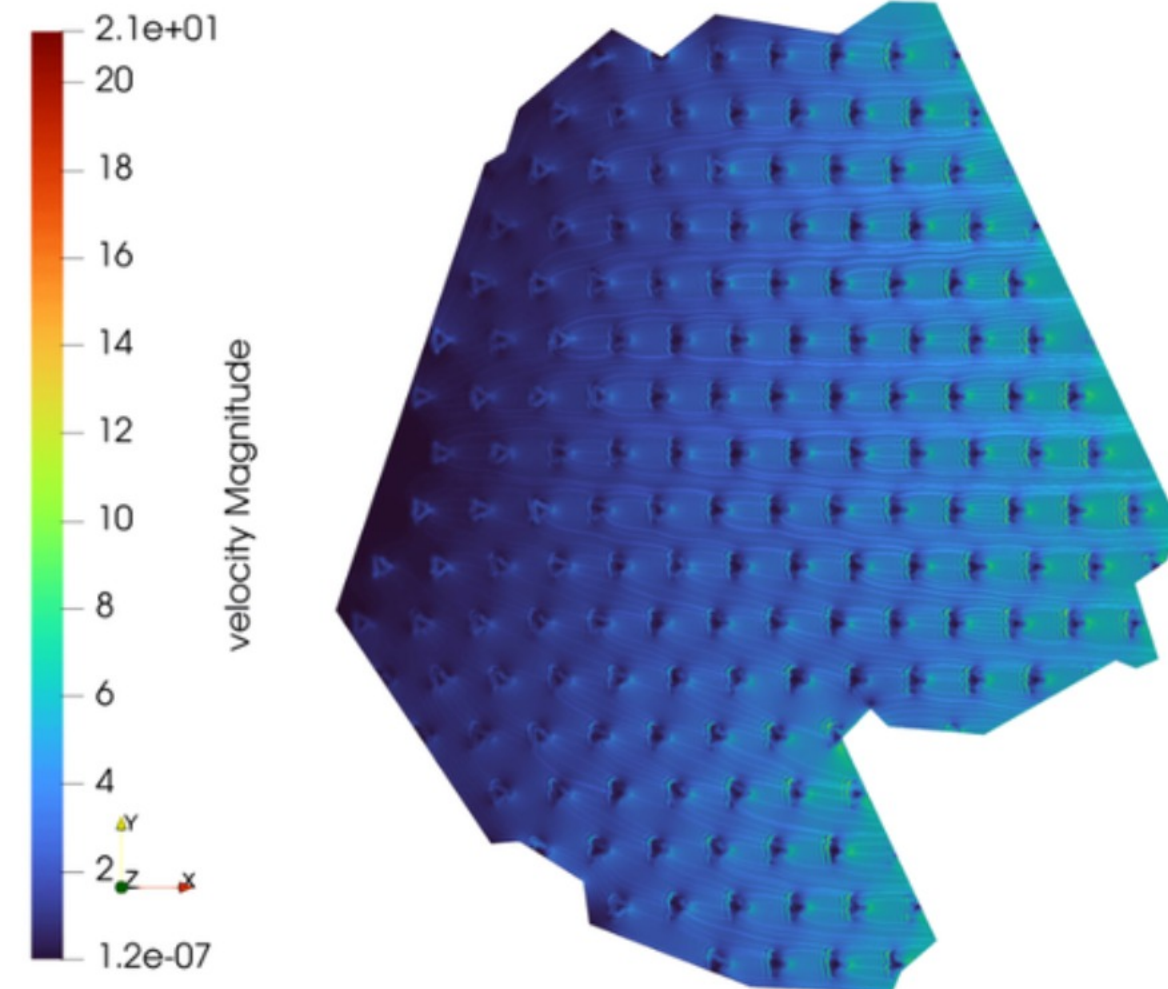
Figura 2. Cp. performance in various wind conditions

160 25KWh Bioseeds Park with Solar Panels

17 X 14 staggered distribution with 50m spacing
160 Bioseeds@25kwh inside the 58000 m² landscape



Approximately 200 W/m² (6 m/s E-W) @ 30 m above sea level
(3.2MW - 4MW) range with the 160 Bioseeds@25kwh



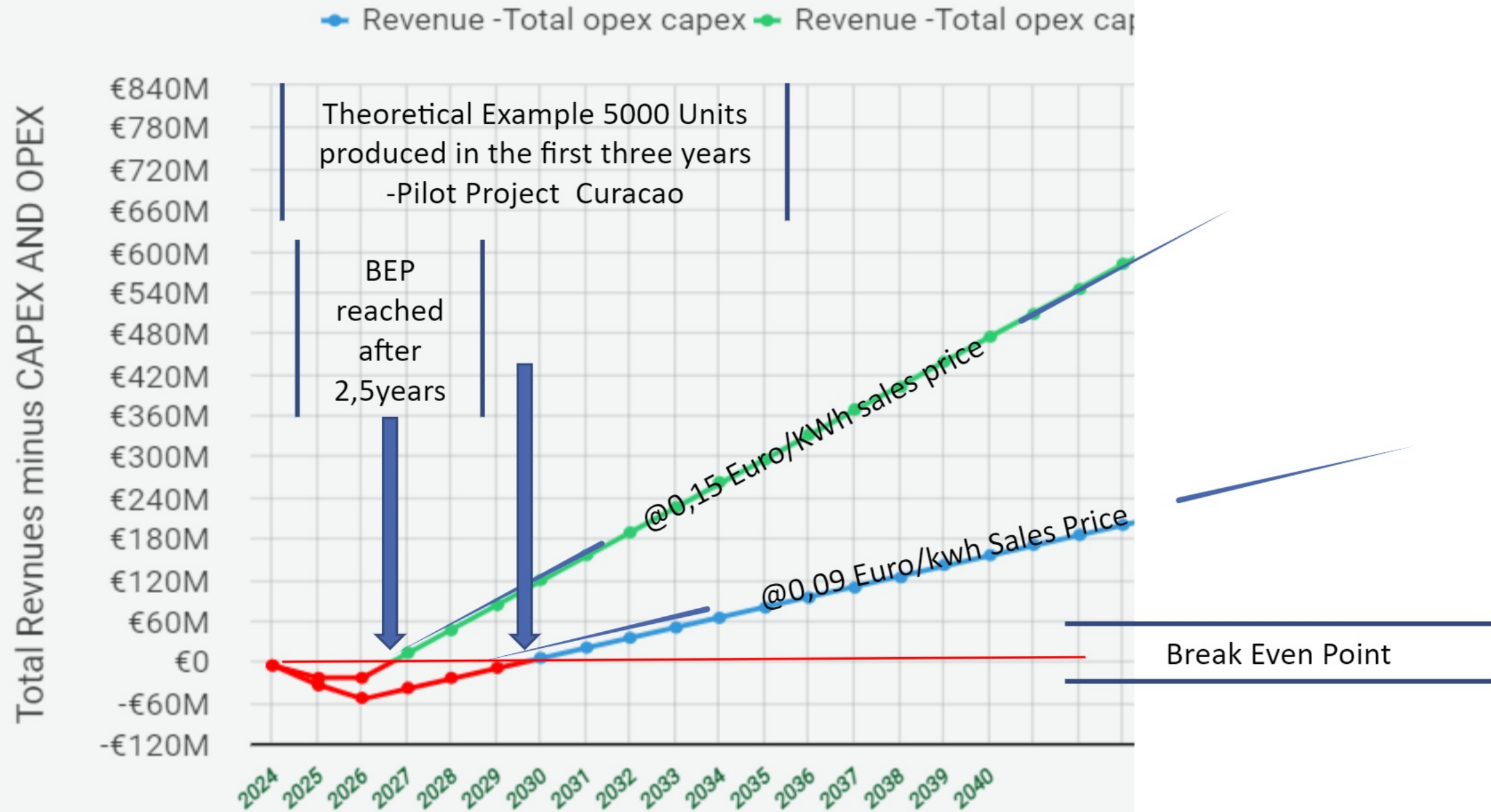
Join us in paving the way for a greener future

Join us in paving the way for a greener future



Financial projections Theoretical Scenario (1)

Total Revenues minus Total Opex and Capex



Financial projections(II)

Need to finalize 10 year Forecast showing revenues/costs/profit,
ROI according to pilot project scenarios

3 yrs route map.									
BP.2	MWh	kWh		T. Capacity			Investment T.		
Wind farms	65	65.000		65.000 kWh			€243.572.050		
	Nominal	Power @ 20m high							
Bioseed gen Power	7,5	6,50 kWh							
Bioseed REQ.	9.993	Units	416	month					
Wind Farms Business Unit		Energy Production & Sales				Wind farm Opex			
kW intallation	65.000	kWh	kW sale price	€ 0,09	per kWh		Operation Opex	€ 0,0140	per kW
kW installation CAPEX	€ 3.747,26	per kW	Generation p90	31.200.000	kWh per Month		Maintenance Opex	€ 0,0081	per kW
T. Installatin CAPEX	€243.572.050		Energy sales income	€ 2.808.000,00	month		Land usage Opex	€ 0,0116	per kW
Montly income:	€ 2.808.000,00		Energy sales income	\$31.824.000	Yr		Energy transmision Opex	€ 0,0128	per kW
Montly Opex:	€ 1.451.162,7907						Total Opex per kW	€ 0,0465	Total Op
Montly profit:	€ 1.356.837,21								
Yearly profit:	€ 16.282.046,51								

Source

<https://sheet.zohopublic.com/sheet/published/nx27jd170bf9eb4fa412b8ffa79adea0ace55>

Electricity sale price and wind harvesting scenarios: High, mid and low cases (Curacao/Caribbean setting)



Variable	Optimistic Scenario (High sale Price & wind energy collected)	most likely scenario (current price & most likely wind conditions in area)	Worst case scenario (lowest price & worst wind conditions)
Target Sales Price per kWh	€ 0,12	€ 0,09	€ 0,08
Potency density (W/m2) (=how much wind energy do we collect per unit)	365	300	260
Radius of Turbine(m)	3,4 m	3,4 m	3,4 m
Turbine efficiency (%)	58%	58%	58%
Installation height (m)	20	20	20
Electricity generation per turbine v 1.0 (KWh)	7,69	6,32	5,48
Yearly hours of generation	6390	5440	4480
AVG hour per day with wind speed > 5m/s	18	16	14
AVG operational days per year	355	340	320
Yearly energy generation (kW)	49.128,15	34.376,12	24.535,11
Yearly energy sales per unit (Eur)	€ 5.895,38	€ 3.093,85	€ 1.962,81

Meet The Experts

Jonathan Rojas



Serial
Entrepreneur

IOT and climate
solutions

Houston/Bogot
a based

Track record
successful
Startups

Renewable Energy expert AND
mentor ClimateLaunchPad

Ex-Shell (15+ y experience in
managing energy projects)

Dutch Based

Leader/Changemaker



Camilo Bayona



PHD Professor
Mechanical
Engineering

Expert in
modeling of
complex
systems

Several Scientific
Publications

Founder/Blade
expert Apex Wind

Ex-Vestas Lead
Specialist Wind Energy
Innovation

Mohammed Faïar



Lorena Salazar



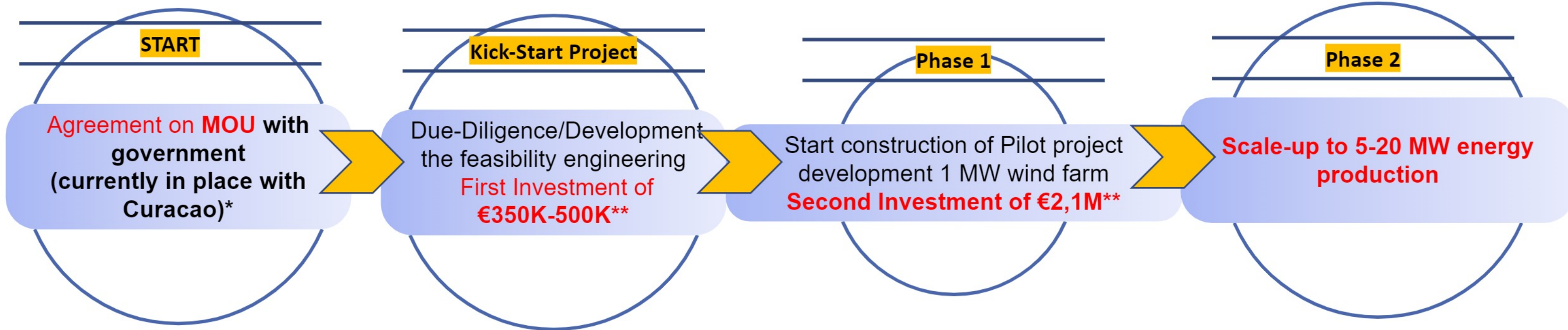
PHD Sustainable
Development

Houston/Bogota
based

The ASK- Joining Forces for a Sustainable Future



~€2,5M investment required in exchange for equity



Partnership Benefits:

pioneering tech innovation in green energy AND potential **high Return On Investment**

Looking for Angel Investors

(e.g. VC's, individuals, corporate, private equity firms, etc)

Further details to join in this venture, click **here**

*using the Free Zone for manufacturing with strong institutional backing

**in return for shares (pro-rata) of the newly generated local energy company

Closing, way forward and Q&A

Click [here](#) for 3D animation of bioseeds turbine in urban setting :

https://cloud.3dvista.com/hosting/7090288/8/index.htm?utm_medium=email&utm_source=govdeliver

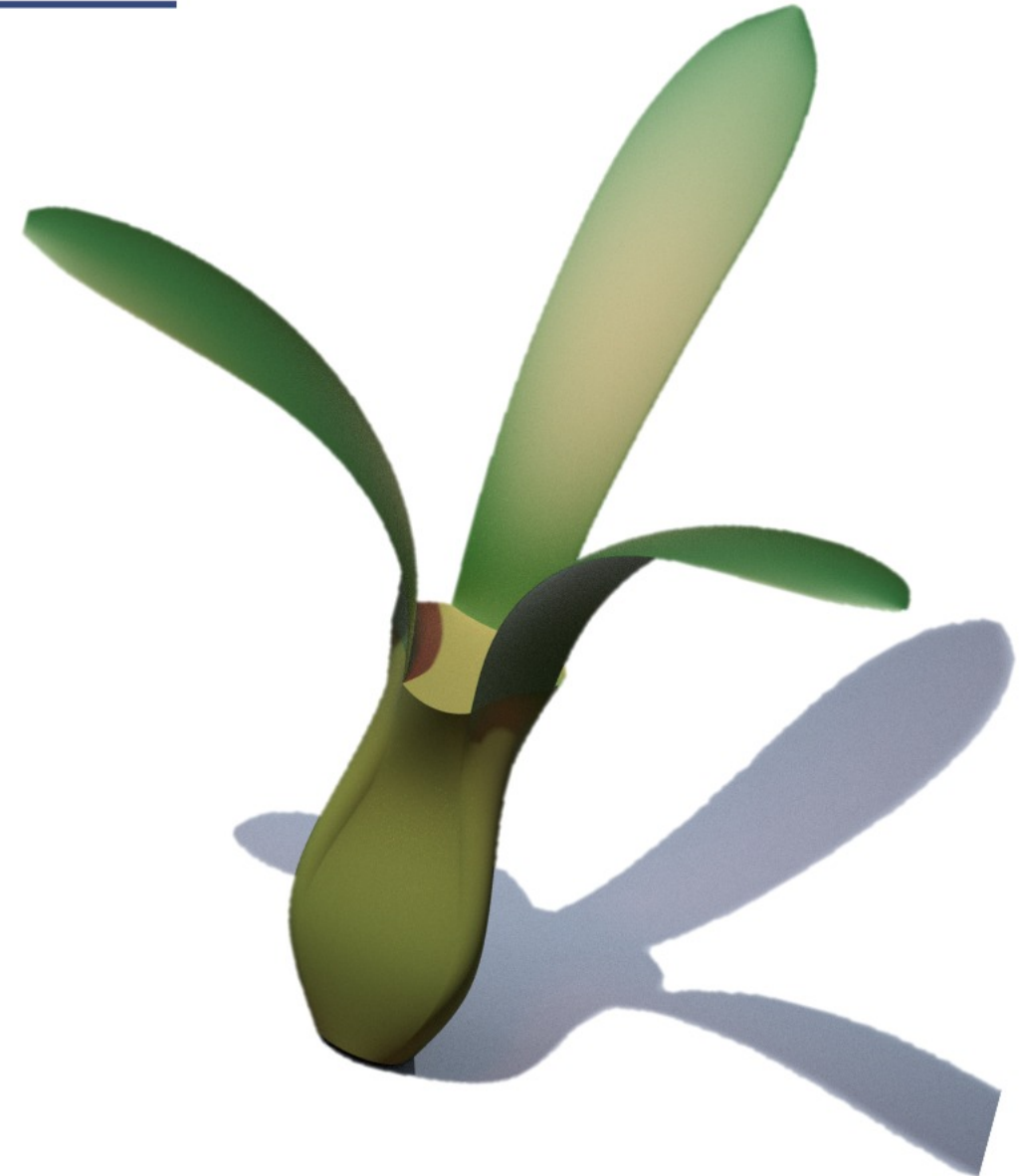
Y



3D Animation in Landscape



TOKENIZED
WIND TURBINES



Backup Slides & Contact Info



Parsons Kinetics Europe , Haarlem
Netherlands Office
alangelo@parsonskinetics.com
+31615219417

Parsons Kinetics US
Bogota/Houston Offices
Jonathan@parsonskinetics.com
+573154456352



Backup Slides



Proyectos en curso



Samacá / Boyacá

Fase piloto

- ✓ Factibilidad
- ✓ Acuerdo tierras (400 Ha)
- ✓ Acuerdos comercialización
- ✓ Inio fase piloto
- Inicio fase implementación



Tolú / Coveñas

Fase estudio de factibilidad

- ✓ Factibilidad
- ✓ Acuerdo tierras
- ✓ Acuerdos comercialización
- Inio fase piloto
- Inicio fase implementación



Curacao / Lago de Asfalto

Fase estudio de factibilidad

- ✓ Factibilidad
- ✓ Acuerdo tierras (85 Ha)
- ✓ Acuerdos comercialización
- Inio fase piloto
- Inicio fase implementación

MODELO DE NEGOCIO Parques eólicos compartidos

Tolú



Power	50 kW
Models	Bioseed 1,5kW
Investment	US\$ 2.900 / kW
% occupancy	100%
Wind profile	● ● ● ● ●
kW sale price	● ● ● ● ●
CO2 mitigation	● ● ● ● ●
Environment risk	● ● ● ● ●

Samacá



Power	12,5 MW
Models	Bioseed 1,5 / 7,5 kW
Investment	US\$ 2.200 kW
% occupancy	8%
Wind profile	● ● ● ● ●
kW sale price	● ● ● ● ●
CO2 mitigation	● ● ● ● ●
Environment risk	● ● ● ● ●

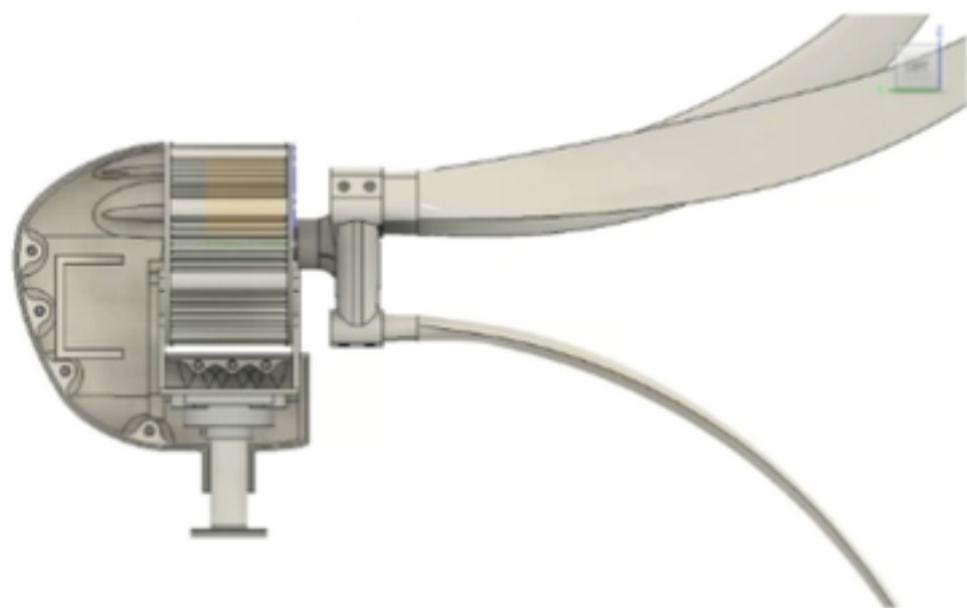
Curacao



Power	5 MW
Models	Bioseed 7,5kW
Investment	Eur 2.550 / kW
% occupancy	15%
Wind profile	● ● ● ● ●
kW sale price	● ● ● ● ●
CO2 mitigation	● ● ● ● ●
Environment risk	● ● ● ● ●

Ficha técnica – Bioseed 7.5K

Bioseed 7.5K – CF - RP



Descripción del producto

La turbina Bioseed 7,5K es ideal para proyectos de generación distribuida de energía con un LCOE competitivo.

Es pequeña y compacta, incorpora un generador de alta eficiencia de imanes permanentes de 7500W AC trifásico y opciones de monitoreo remoto.



7,5kW

Potencia Nominal



6,5m

Diámetro



58%

Cp. eficiencia

Especificación	Bioseed 1.5k
Potencia	7,5 kW – 3 fases 220v
Dimensiones	D: 680 cm L: 390cm
Aspas	3 x (4,5 m largo) Materiales: CF: fibra de carbono / RP: PET reciclado
Generador	Imanes permanentes – tierras raras
Monitoreo	RPM, vibración, temperatura, corriente, voltaje, posición, vel. viento.

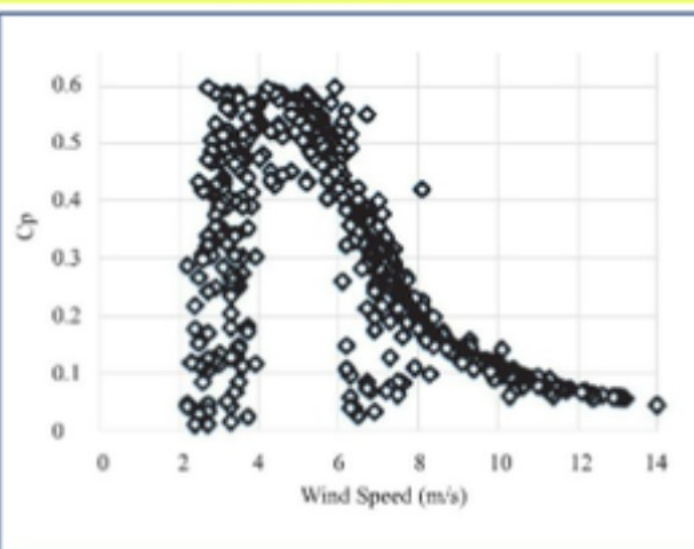


Figura 1. Coeficiente de potencia

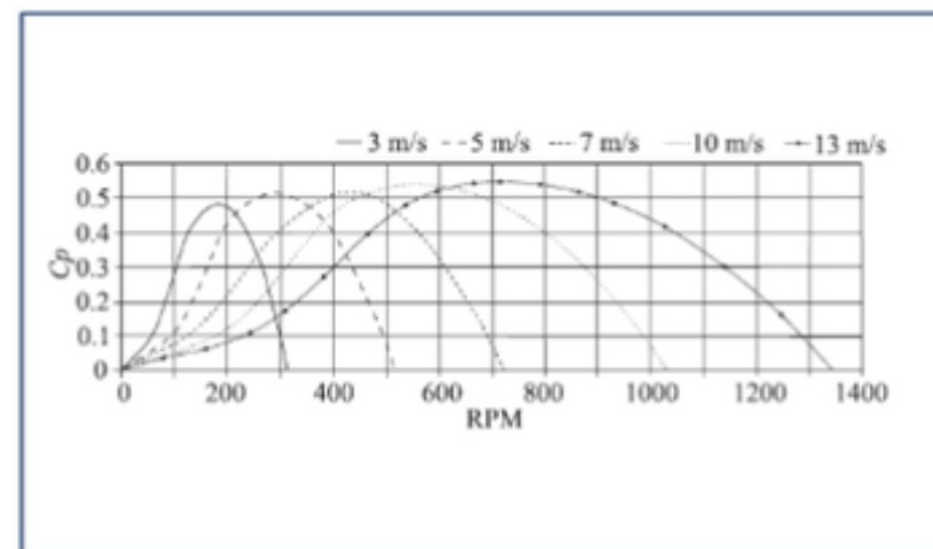
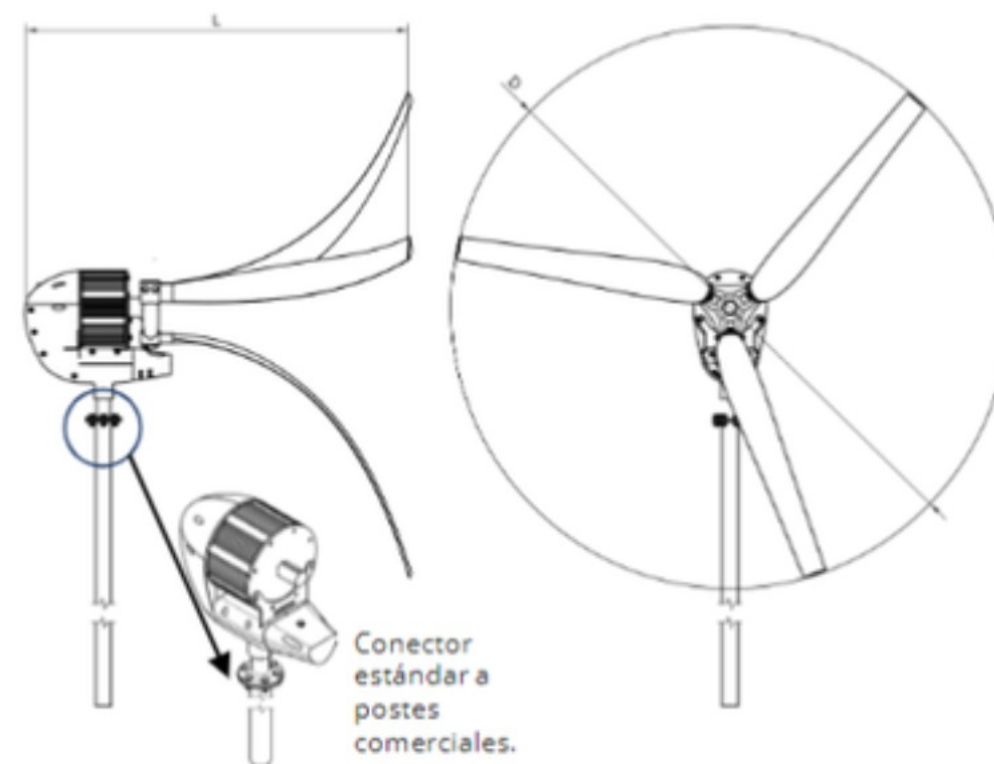


Figura 2. Cp. rendimiento en diversas condiciones de viento

Backup Slide: Asphalt lake Location in Curacao

Tar was dumped in the lake in Willemstad during the Second World War
This is a result of the heavy production of Kerosene in the battle against Germany



Total cleaning time estimate is 5 years. The location is not suitable for large industrial Wind Turbines due to
LOW WIND SPEEDS.

The use of Bio-Seed turbines would permit agriculture, housing and recreation as well as nature reservation
activities, as well as provide GREEN ENERGY FOR THE CITY

BUSKABAAI NV (partially government owned) is the owner of the lands and the cleanup is done by Asphalt lake
Recovery Ltd



Backup Slide: Wolrd Wide projects planned



World Wide Planned Projects

Wind farms B2B
Dutch Antilles

20 MW

Business potential:
US\$27 M
2600 turbines

Wind farms B2B
Colombia

10 MW

Business potential:
US\$13 M
1300 turbines

Wind farms B2B
Tokyo

20 MW

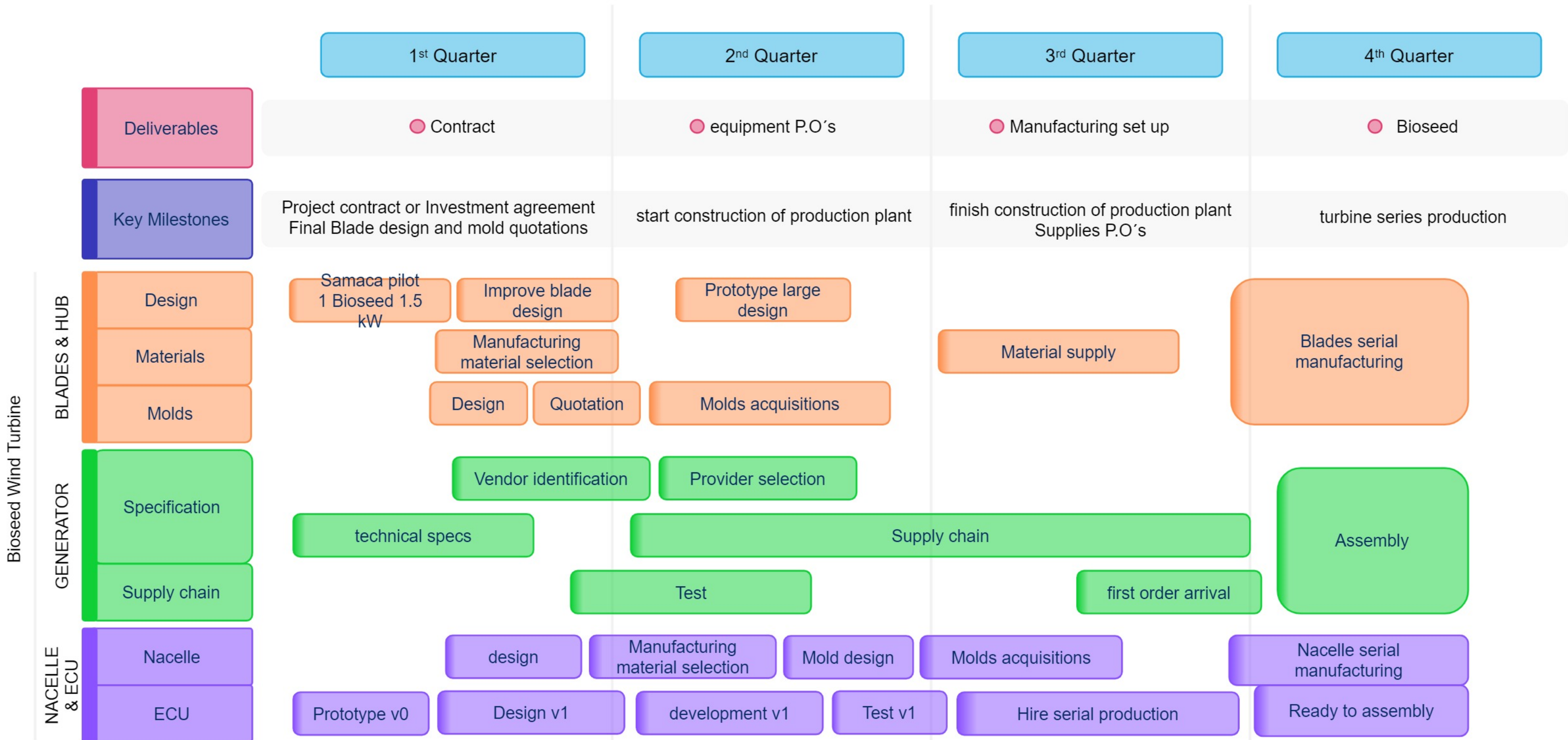
Business potential:
US\$27 M
2600 turbines

Tokenized Wind farms B2C
Worldwide

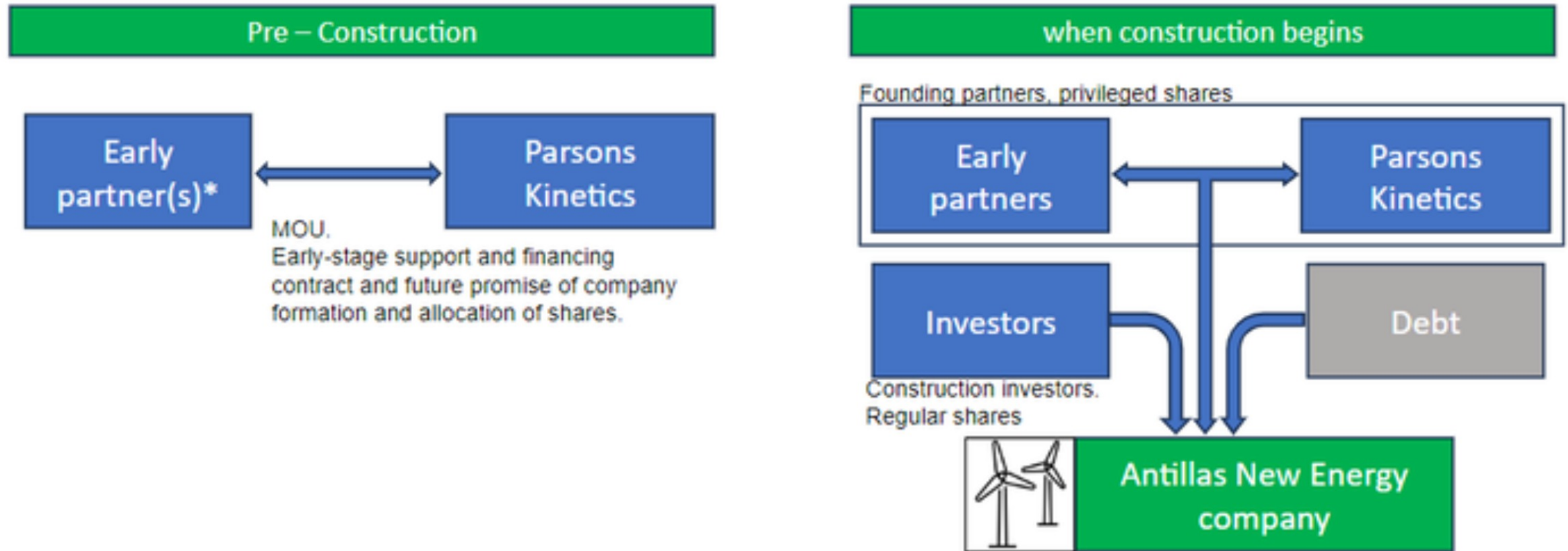
TBD

Business potential:
TBD

Back Up Slide: TECH ROUTE MAP AND TIME TO MARKET FY 2024



Back Up Slide: Pilot Project 1: Partnership Structure Dutch Antilles



- Potentially one or multiple partners depending on the final commitment amount from the potential partners.
- Interested partners will enter the joint development agreement with the Parsons Kinetics to support early phases of the project.
- Interested partners will commit and provide financial sponsorship to the Preliminary due diligence and Development and feasibility Phase and In return, interested partner receives a right to subscribe shares of the future development wind farms on a pro-rata basis of the financial contributions, Parsons Kinetics reserve the rights of the 50% of the equity for the future company.

Back up Slide: Levelized Cost Of Energy Comparison Projected: US\$52 / MWh

Key Inputs and Levelized Cost of Energy Results

Parsons Kinetics

Parameter	Unit	Land-Based	Offshore		Distributed			Bioseed 7,5 kW	Distributed
		Utility-Scale Land-Based	Utility-Scale (Fixed-Bottom)	Utility-Scale (Floating)	Single-Turbine (Residential)	Single-Turbine (Commercial)	Single-Turbine (Large)	Single Bioseed 7,5 kW	Projections for 1,5 MW farm
Wind turbine rating	MW	3	8	8	20 (kW)	100 (kW)	1.5	7.5 (kW)	1,5 MW /200 unt
Capital expenditures (CapEx)	\$/kW	1,501	3,871	5,577	5,675	4,300	3,540	1,826 ☺	1,787 ☺
Fixed charge rate (FCR) [real]	%	5.88	5.82	5.82	5.88	5.42	5.42	TBD	TBD
Operational expenditures (OpEx)	\$/kW/yr	40	111	118	35	35	35	135	135
Net annual energy production	MWh/MW/yr	3,775	4,295	3,336	2,580	2,846	3,326	40,800 (kWh/kW/yr)	7,507
Levelized Cost of Energy (LCOE)	\$/MWh	34	78	133	143	94	68	52	52

Note: Unless specifically stated, all cost data are reported in 2021 U.S. dollars (USD).

Back UP Slide: BUSINESS MODEL Calculations

Manufacturing and sell wind turbines

	Total
Payroll	US\$132.000
Warehouse rental	US\$12.000
Accountant and tax rev.	US\$2.500
Grooming and surveillance	US\$3.500
Utilities	US\$8.000
Incidentals	US\$2.700
Technology	US\$2.300
Total Month	US\$163.000
By Turbine:	US\$424
By kW:	US\$57



Business model - Scenario of Tokenization

manufacturing plant Implementation

Production capacity:
200 units/ month
5000m2.
Investment €2.5M
To produce



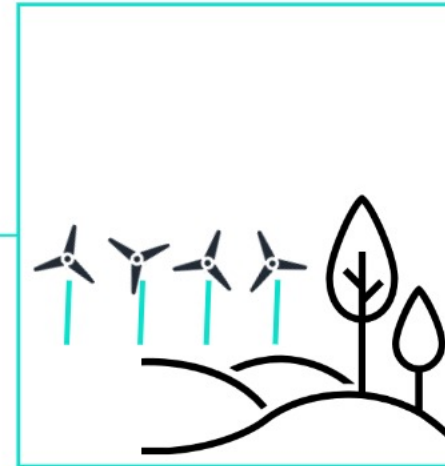
Digital commercialization of Bioseed wind turbines



Aerogenerator Bioseed 7.5K
Token sale price: €15.470
Power gen capacity: 7.5 kWh (1 Turbine)
Lifespan energy sale: €90.000
Lifespan CO2 mitigation: 800 ton
Lifespan years: 20

Implementation of the self operated wind farm

Wind turbines: Bioseed 7.5K
Production capacity: up to 35 GW
Locations: Antillas + others
Investment €1.5M



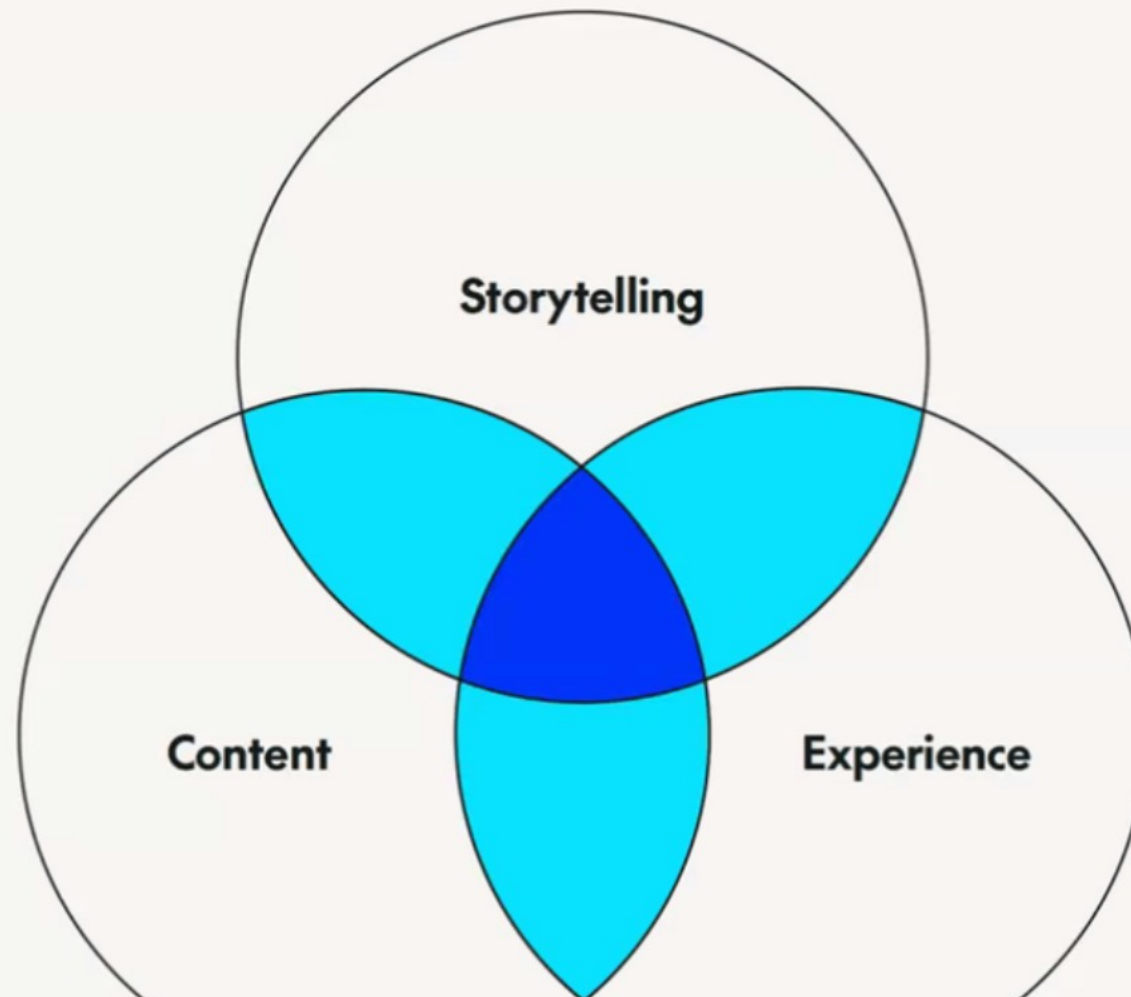
Assets tokenization for **Energy Market Transformation**



Income from energy generation

Token Owner – 70%
Parsons Kinetics – 30% Operation & Maintenance.

What makes a good pitch deck?

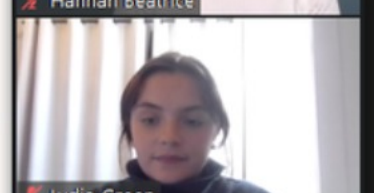
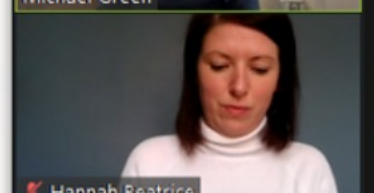


Storytelling

How you guide the audience through your information

Content

How your audience digest the content

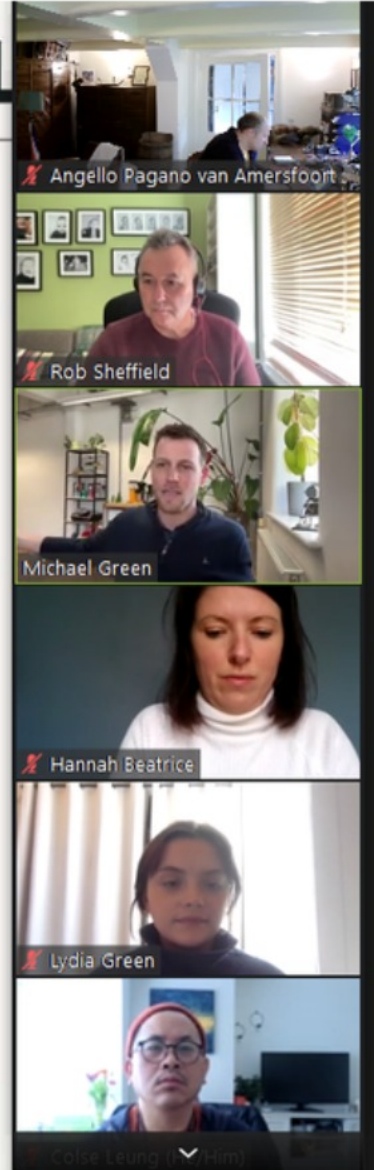


Experience

The questions you need to ask yourself

Before you pitch...

- Who are you pitching to?
- What context do they have at the outset?
- What's their starting mindset?
- What do you want them to feel/think/do at the end?



The second conversation

What do you want others to be sharing
(and potentially pitching) when you're not there?



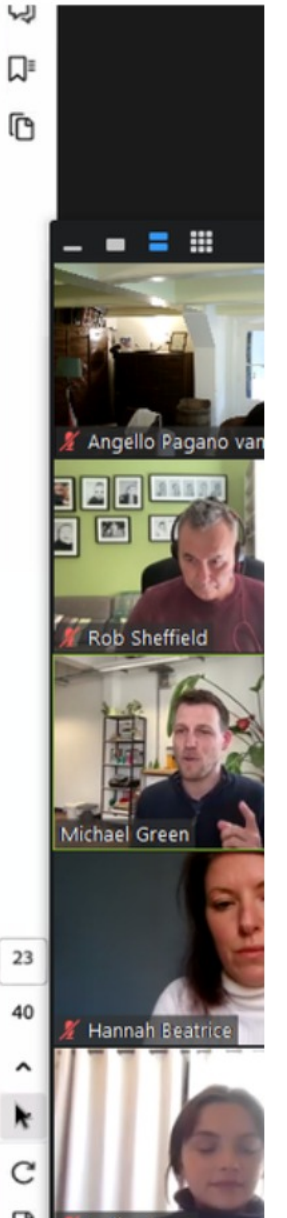
The in-person deck

- More targeted
- Light on text and data
- Cues and prompts
- Working in harmony with the presenter



The 'leave behind'

- More versatile
- Has necessary context to work without a presenter
- Potentially less linear
- Familiar but different



Opname 000210_Luna9_TalkPr... x + Create

All tools Edit Convert E-Sign Find text or tools Share AI Assistant

Content L9

Things to consider when designing your deck

Does it form part of a joined-up brand experience?

Does it reflect what it's like to partner with you?

Is it worth getting help to maximise the design?

28 40 ^

zak moore tot U (Rechtstreeks bericht) 13:30

ZM

Hannah Beatrice tot iedereen 13:31

H How many people here are working on a pitch deck right now? Or helping others with them?

2

Alles samenvouwen ^

Lydia Green 13:32

LG Helping others, at the moment predominantly in the digital/connectivity/telco space

1

Lydia Green 13:33

LG so the story and 'why' is really important and can get lost in the tech!

Rob Sheffield 13:34

Am working with University research leaders to help them pitch for improvements in research culture

1

Greg Smart 13:35 8 nieuwe berichten ↓


Wie kan uw berichten zien? Opnemen aan

Opname 000210_Luna9_TalkPr... Create

All tools Edit Convert E-Sign Find text or tools Share AI Assistant


Content L9

Three specialist skills you can leverage externally




Strategist

Get the story straight



Copywriter

Nail the messaging



Designer

Make it look brilliant

zak moore tot U (Rechtstreeks bericht) 13:30

ZM

Hannah Beatrice tot iedereen 13:31

H How many people here are working on a pitch deck right now? Or helping others with them?

2

Alles samenvouwen ^

Lydia Green 13:32

LG Helping others, at the moment predominantly in the digital/connectivity/telco space

1

Lydia Green 13:33

LG so the story and 'why' is really important and can get lost in the tech!

Rob Sheffield 13:34

Am working with University research leaders to help them pitch for improvements in research culture

1

Greg Smart 13:34 13 nieuwe berichten ↓


Wie kan uw berichten zien? Opnemen aan

Opname 000210_Luna9_TalkPr... Create

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Content L9

Three specialist skills you can leverage externally




Strategist

Get the story straight



Copywriter

Nail the messaging



Designer

Make it look brilliant

zak moore tot U (Rechtstreeks bericht) 13:30

ZM

Hannah Beatrice tot iedereen 13:31

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Wie kan uw berichten zien? Opnemen aan

The supporting cast

Hook

Intro / Value
proposition

Problem

Nirvana

Solution

Target market

Traction

Team / Advisors

Market visibility /
Competitors

Case studies /
Testimonials /
Awards / Proof

Financials /
Projections

Ask / Next steps

The questions you need to ask yourself

After you pitch...

- What will you share?
- Would it make sense without you there to pitch with it?
- How would you feel about someone passing it on?
- What is your follow up?

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Summary L9

If you only remember three things...

02

Avoid cramming too much onto one slide

Think of your slides like rooms in your house that you're guiding a guest through. Clutter is confusing!

38 40

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Wie kan uw berichten zien? Opnemen aan

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Summary L9

If you only remember three things...

03

Turn your audience into advocates
Create a 'leave behind' version suitable for a newcomer, so others can pass on your pitch.

39 40

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Wie kan uw berichten zien? Opnemen aan

Opname 000210_Luna9_TalkPr... + Create

All tools Edit Convert E-Sign Find text or tools Share AI Assistant

Thank you

Michael Green
Strategy Director
michael@luna9design.com

Luna 9

luna9design.com

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