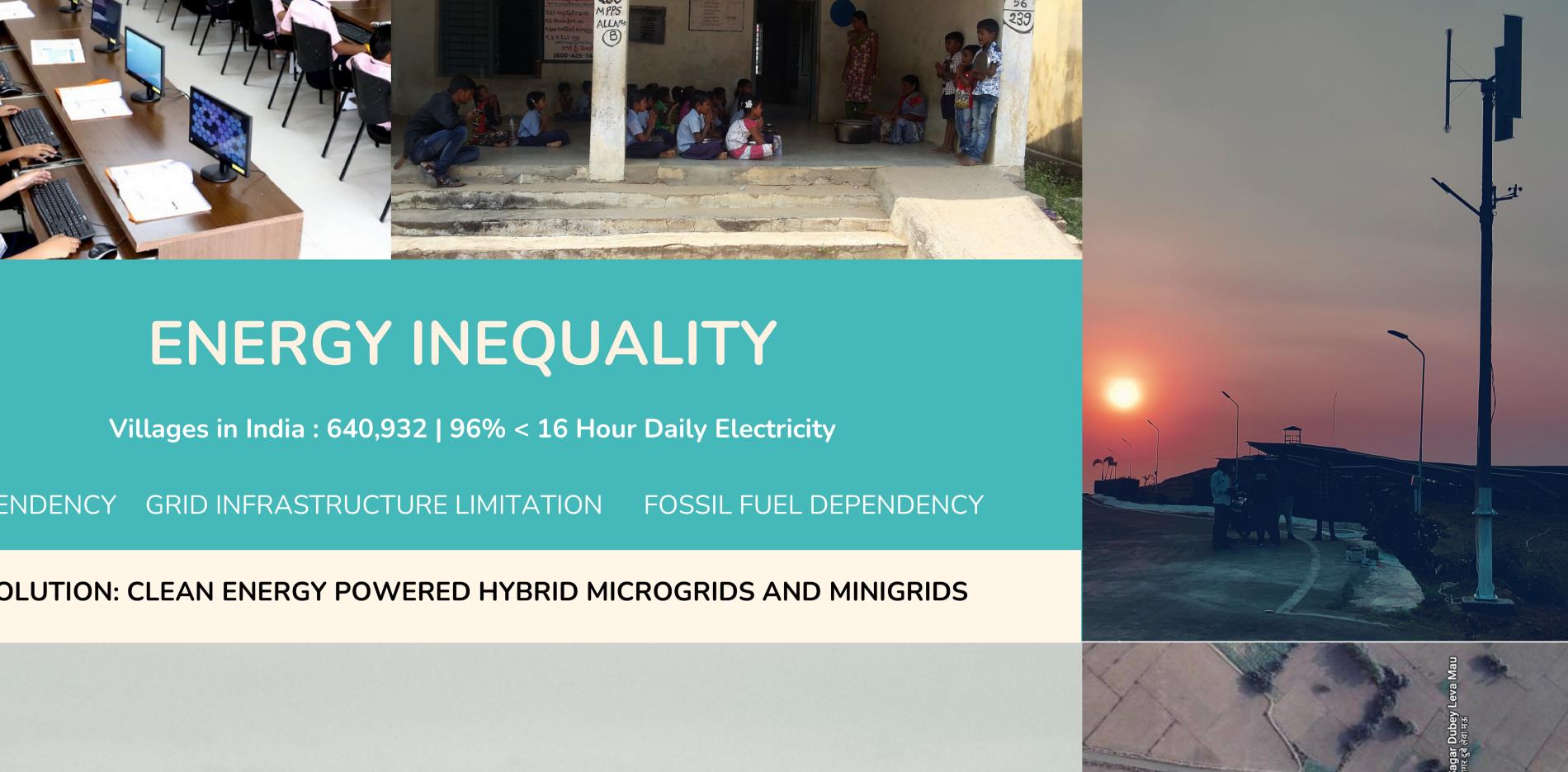


GRID DEPENDENCY GRID INFRASTRUCTURE LIMITATION FOSSIL FUEL DEPENDENCY

THE SOLUTION: CLEAN ENERGY POWERED HYBRID MICROGRIDS AND MINIGRIDS



APEIRO ENERGY

Apeiro Enery is a DPIIT and Department of Science and Technology Supported startup formed in 2021 with a vision to solve Energy Inequality and achieving Energy Independence. We are the first company in India to build patent pending small wind vertical axis wind turbine technology. Started by passionate engineer with an intent to help community and have meaningful impact.



Affordable Tariff Rate

: Rs 4-6 per kWh

Localized Energy



30 kW to 100 kW

> 100% Grid **Uptime**

Generation

Hybrid Micro and Mini-grids in Villages

Local Economy Boost



iWind Hygrid

Wind-Solar Hybrid Micro and Mini Grids

- Grid Connected
- Islandic





Technology Fundamental

- Starts at 1.5 m/s
- 30% to 40% rated production at 5-6 m/s
- Rated production at 8-9 m/s
- 20 Years Operation Life
- LCoE, INR 3-5 kWh

Apeiro Energy Proprietary Tech Stack

- iWind Hybrid Control System
- iWind Low Cost Generator Unit
- iWind On-grid and Off-grid Integration Systems
- iWind Smart Monitoring System, IoT Remote Monitoring









Revenue of USD 130 Million by sales of iWind 100, 5,000 iWind 1.6 kW and iWind 5 kW Hygrids



iWind Powered by CFD

4000+ hours of 450+ 2-D Transient Analysis Simulation simulation 3-D Transient Analysis **Studies** runtime Design and Simulation Tools **ANSYS Fluent** Altair Hypermesh **ANSYS CFX** XFoil **ANSYS** Mechanical NACA Database SolidWorks

Supported By

































Developing Voluntary Carbon Credit Markets

Digital MRV (Monitoring, Reporting and Verification) for the African Carbon Credit Market

Authors

Peace Bello (CEO), Victor Olufemi (CTO), Grace Omojola (CIO)

Affiliations







CHEMOTRONIX

OBAFEMI AWOLOWO UNIVERSITY

UNIVERSITY OF EASTERN FINLAND

INTRODUCTION

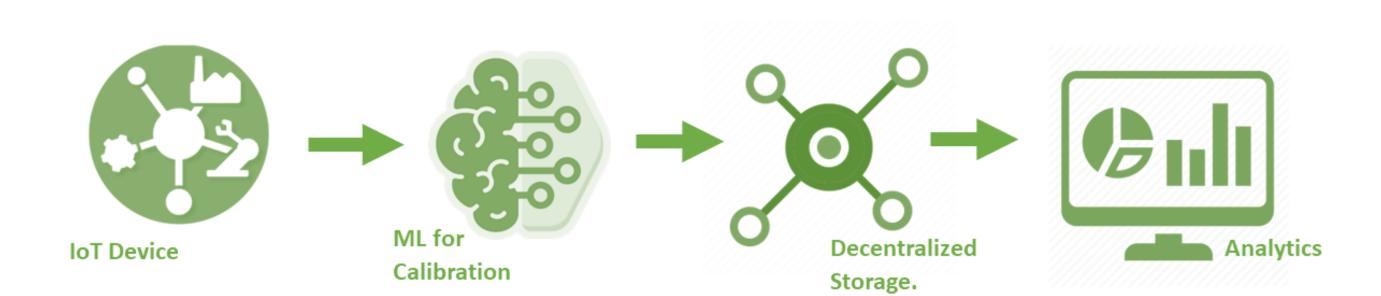
Chemotronix is an emerging climate technology startup dedicated to addressing the critical issue of climate change. Our primary mission is to reduce carbon emissions, foster sustainable energy solutions, and make a positive impact on the environment. We are implementing digital measuring, reporting and verification (dMRV) technologies to ensure the proper issue of carbon credits (in line with the African Carbon Market Initiative) and facilitating clean energy projects which allow communities to thrive in eco-friendly environments. The urgent need to combat climate change inspired the creation of Chemotronix, while Africa contributes fewer carbon emissions globally, it faces disproportionate vulnerability to climate impacts. This unique dynamic motivates us to harness Africa's potential as a carbon sink while simultaneously enhancing regional development. We aim to deploy renewable projects in 10 local communities and 5 urban communities, impacting at least 20,000 individuals yearly.

METHODOLOGY

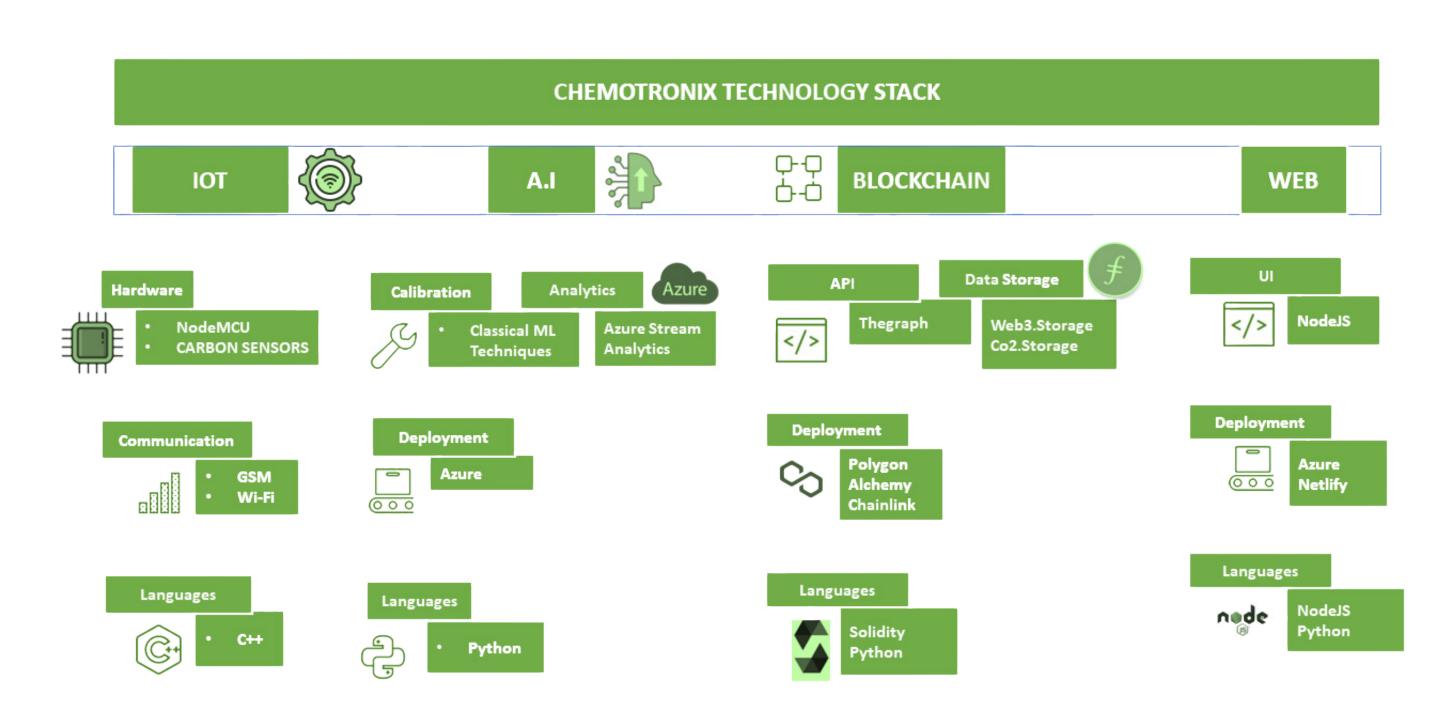
Carbon Emissions Tracking:

Our carbon emissions tracking approach relies on a robust blend of IoT technology, machine learning, blockchain, and decentralized data storage.

• Carbon Emissions Tracking



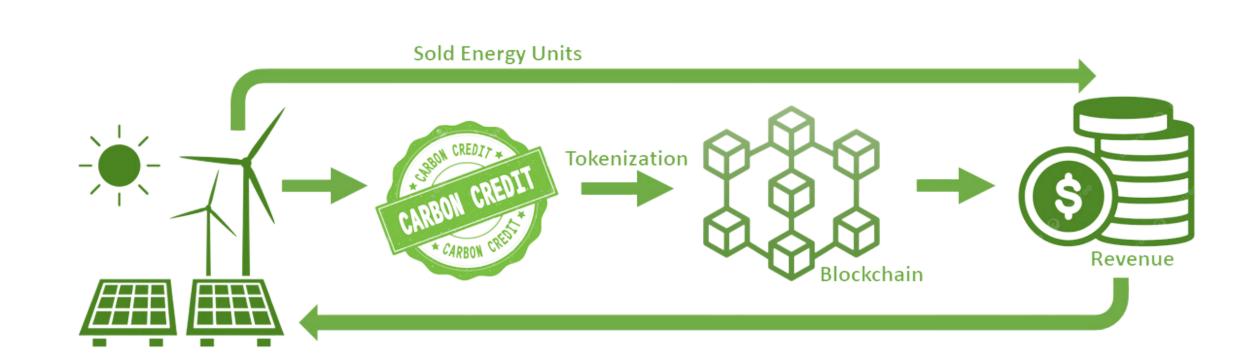
- **IoT Device Deployment**: We strategically position low-cost IoT devices equipped with an array of sensors in various locations. These sensors include MG811, MQ9, MQ7, MQ135 for carbon dioxide (CO2) and carbon monoxide (CO) detection, and BME280 for humidity and temperature monitoring. These devices continuously collect environmental data.
- Machine Learning Calibration: To ensure the accuracy and reliability of our emissions data, we employ machine learning algorithms. These algorithms calibrate the sensors, we translate raw sensor data into precise measurements of CO2 and CO levels. This process enhances the overall quality of our emission data and ensures its reliability for decision-making.
- **Decentralized Data Storage**: To safeguard data integrity, we utilize the Interplanetary File System (IPFS), a decentralized and tamper-proof storage solution. All calibrated emissions data is securely stored in IPFS, guaranteeing its authenticity and preventing data manipulation.



Carbon Credit Generation:

In parallel with emissions tracking, we embark on renewable energy projects to generate carbon credits, contributing to emissions reduction and carbon neutrality.

Carbon Credit Generation

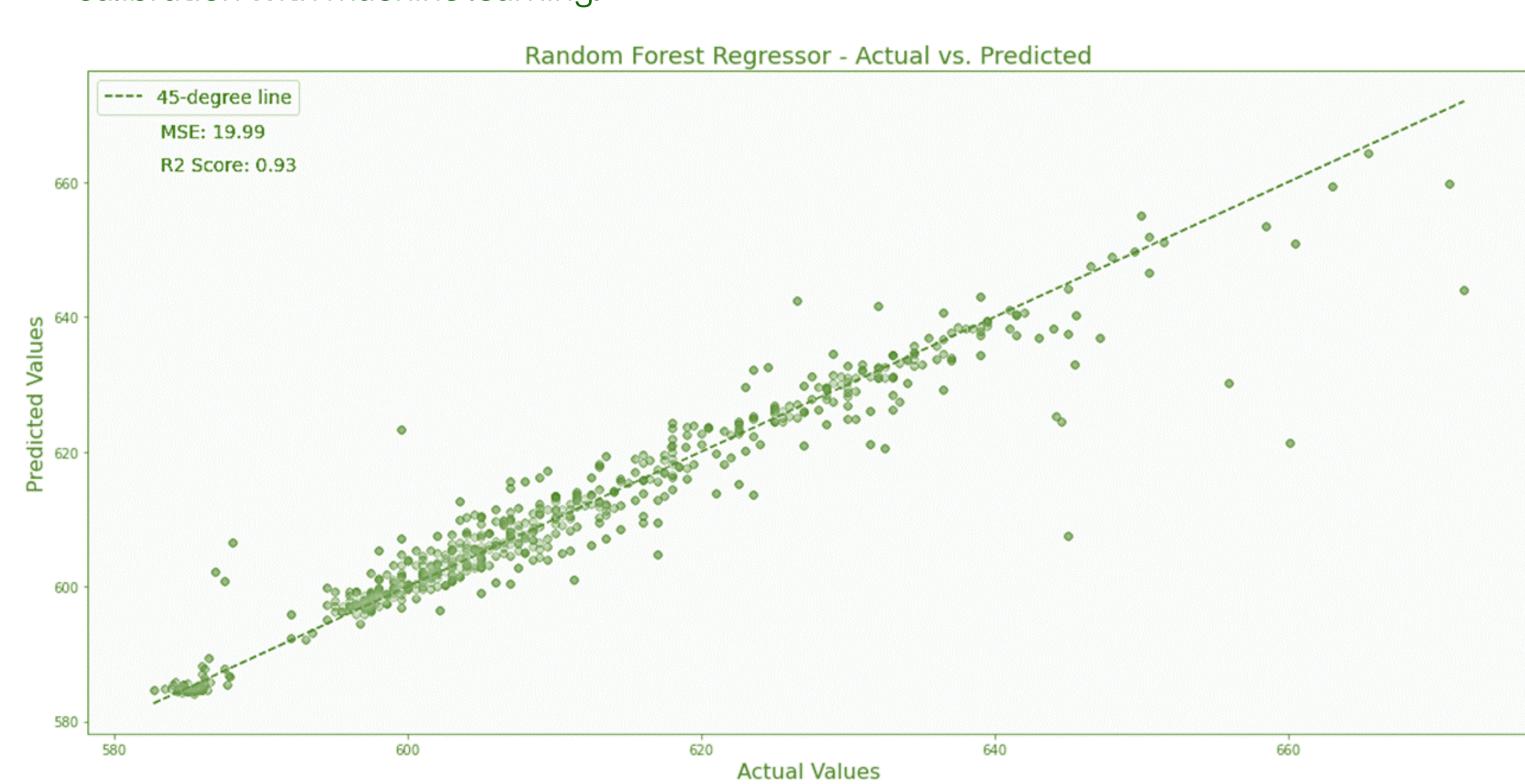


- Renewable Energy Projects: We initiate renewable energy projects, such as solar farms, in rural and underserved communities. These projects generate clean energy, reducing carbon emissions associated with fossil fuels.
- Carbon Credit Tokenization: The generated carbon credits undergo a meticulous verification process to ensure their validity. Once verified, these credits are tokenized on our blockchain platform, creating a transparent marketplace for carbon offset transactions. This blockchain-based approach guarantees the traceability, ease of sale, and authenticity of carbon credits.

RESULTS & INSIGHTS

Our journey is marked by significant achievements and invaluable insights:

• Technological Breakthrough: Chemotronix has developed an IoT device that reduces monitoring costs by a remarkable 90%, democratizing emissions tracking and facilitating scalability. We also achieved a high R2 Score of 93% for IoT device calibration with machine learning.



- Expansive Dataset: Our ongoing efforts culminate in the compilation of a dynamic dataset, offering real-time insights into evolving carbon emissions trends.
- "Photizo" Project: Our pilot project, "Photizo," aims to illuminate communities in Ibadan, Nigeria, with clean energy, setting a precedent for sustainable development.

CONCLUSION

Chemotronix offers a multifaceted approach to addressing climate change, combining emissions tracking and carbon credit generation. This not only presents a lucrative revenue source for Africa but also empowers underserved communities with access to clean energy.

FUTURE DIRECTIONS

Our future endeavours involve expanding renewable energy projects and exploring the potential of hydrogen fuel. Furthermore, our adaptable IoT technology can be deployed worldwide, benefiting regions seeking to monitor and reduce carbon emissions.

REFERENCES

ACMI Report,

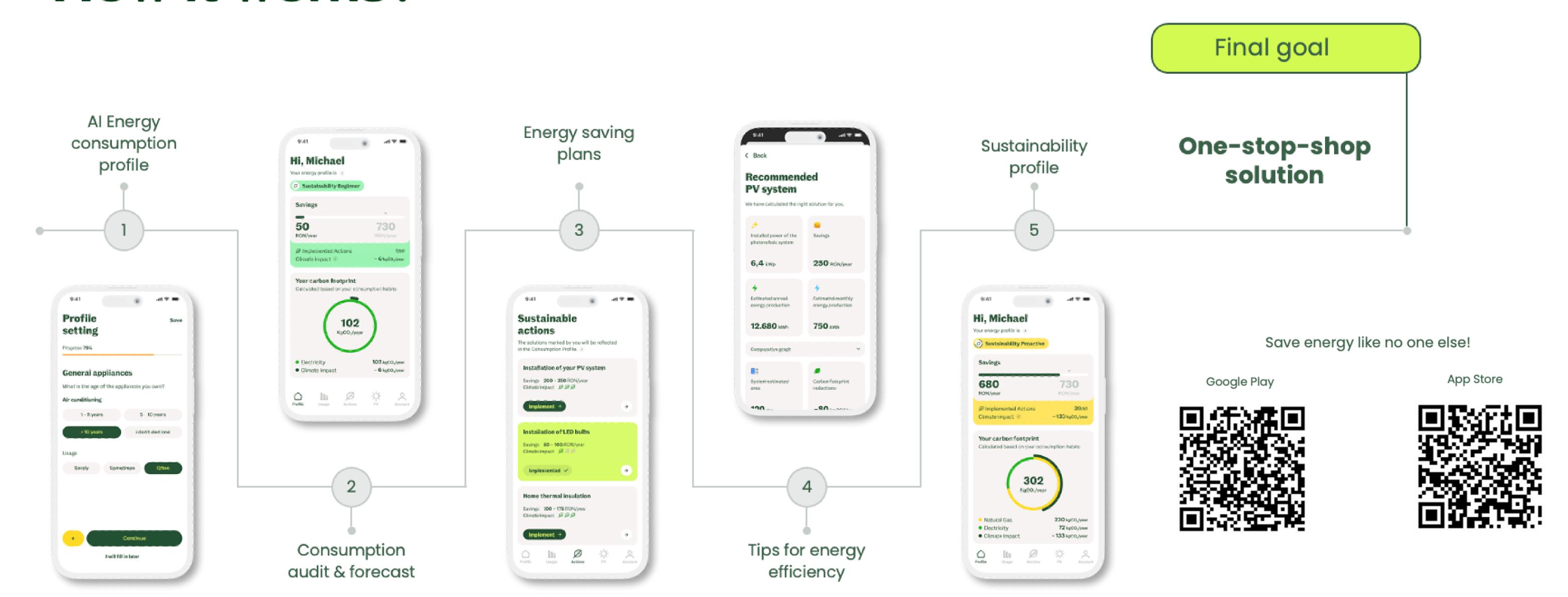
WEF White Paper April 2023 (Blockchain for Scaling Climate Action), WEF Guidelines for Improving Blockchain's Environmental, Social and Economic Impact– Insight Report, April 2023



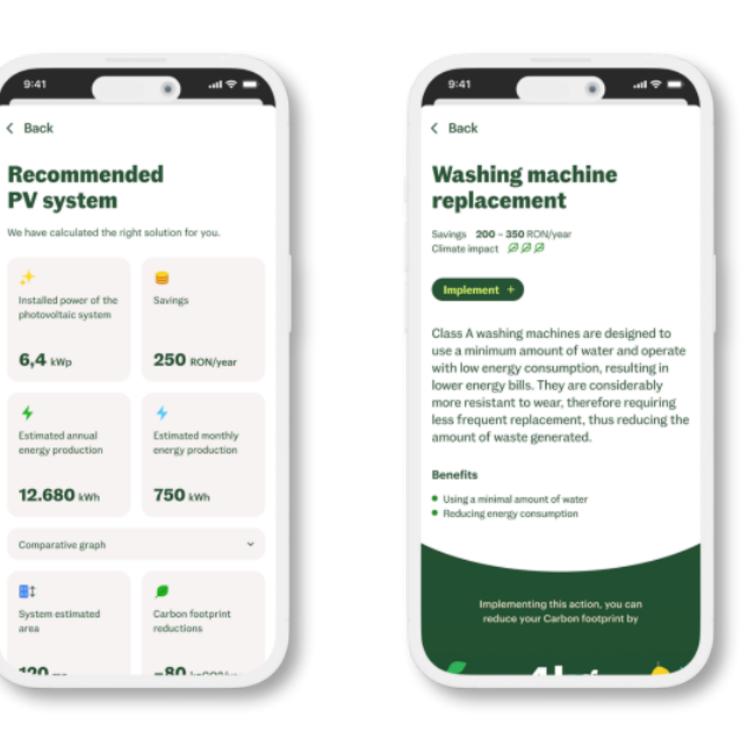
Renergia

The first app that gives you the power to cut off your energy bill and save money.

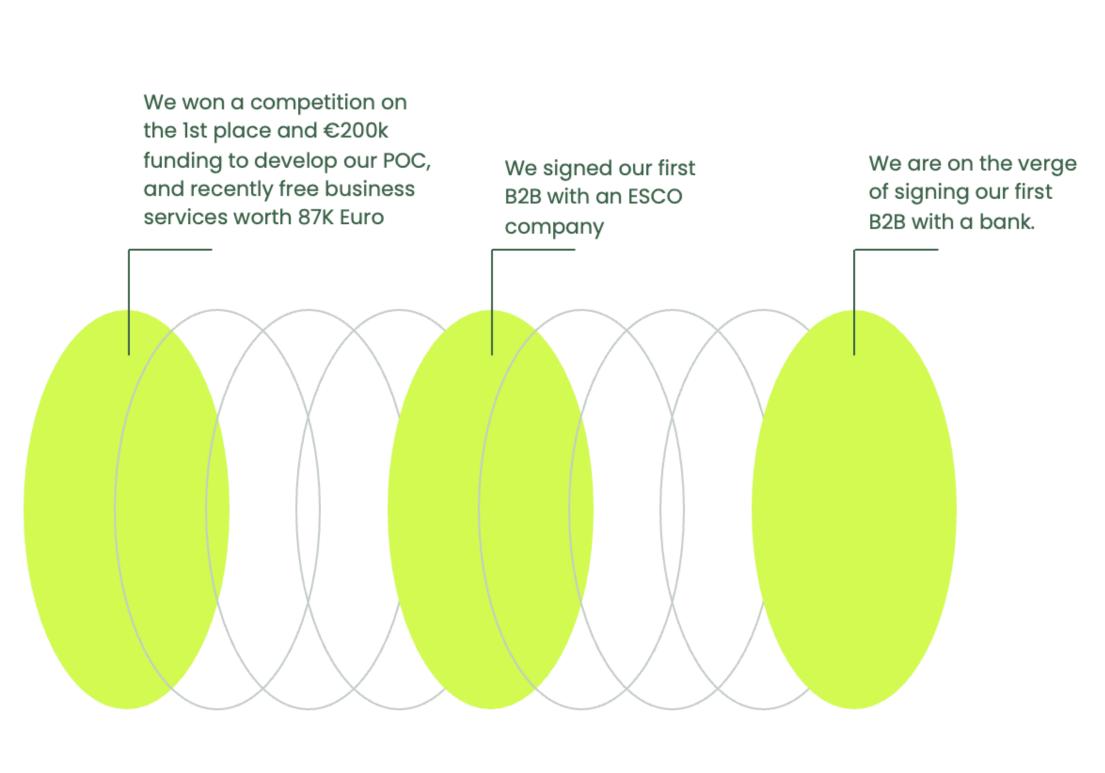
How it works?



Our hero products







Concept Validation

Residential Users



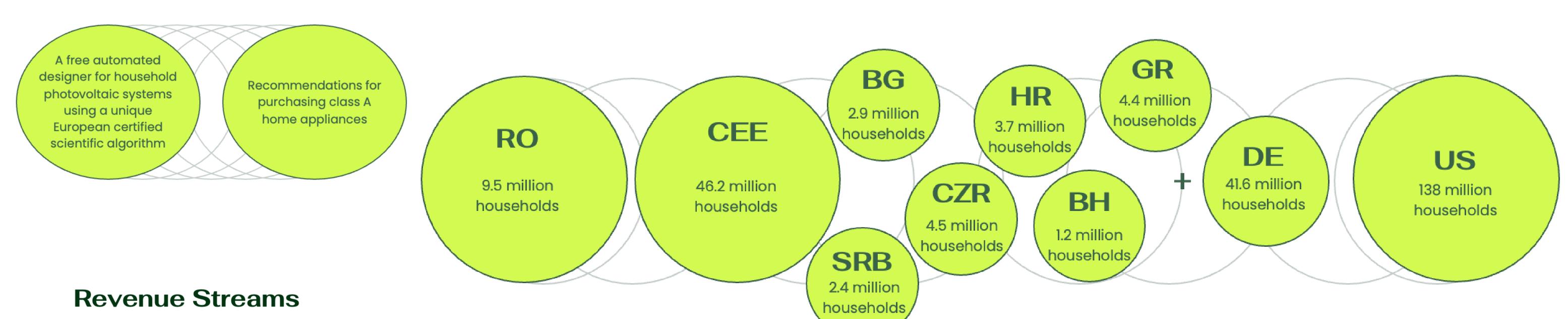
Home and apartment owners

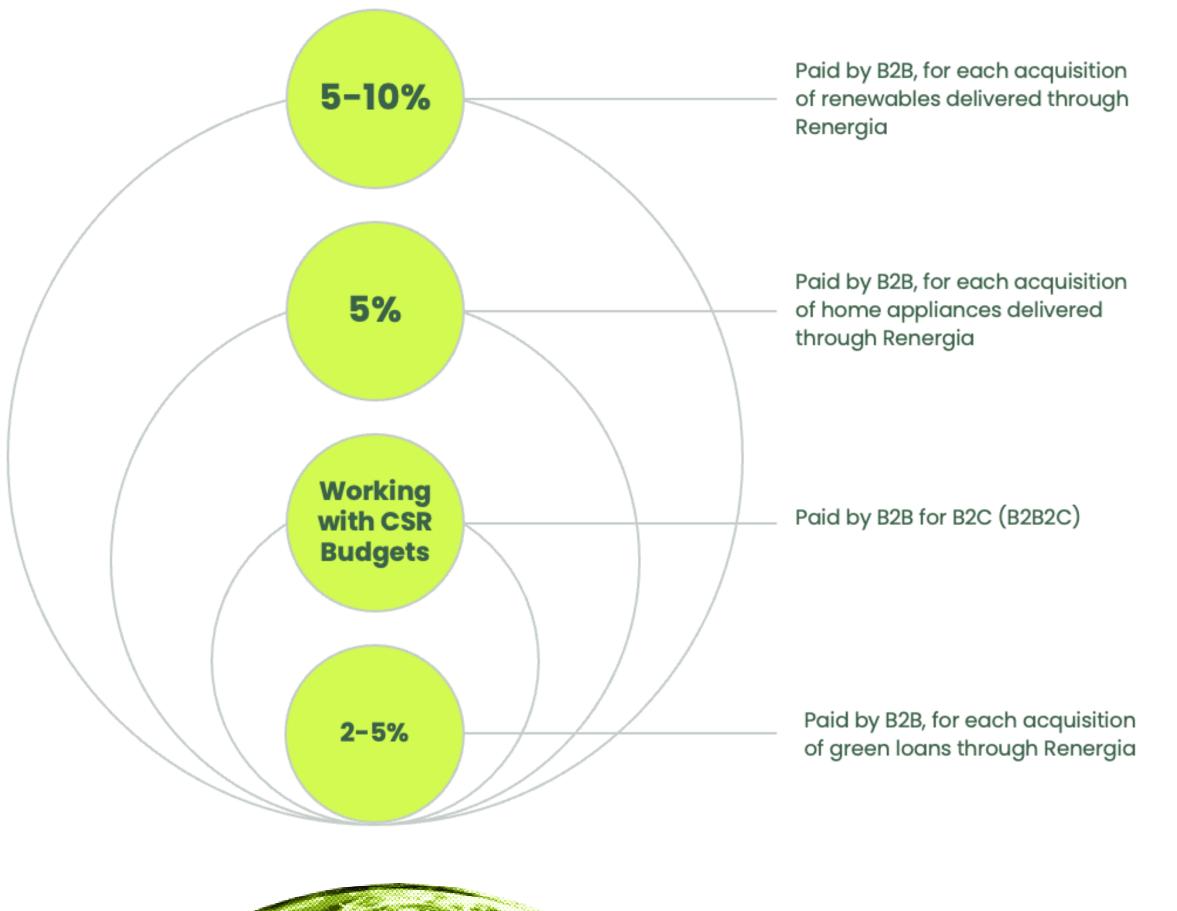
Target Market

They need more information and guidance as early as possible to make smart decisions and reduce household energy costs and eventually embrace a sustainable lifestyle.

Energy efficiency service providers/and or manufacturers/traders of household appliances and photovoltaic panels.

They need to find long-term partners with a desire to educate and grow the market's economical value, whilst reducing the climate impact.













The Team





Dacian I. Jurj in (Dr. Eng.) Co-Founder / COO

Former Head of Business at AlphaBlock Technologies Inc. Al Specialist with more than 10 years in the start-up industry.

Alexandru **Mureșan** (Dr. Eng.) Co-Founder / CEO

Sustainability Engineer and Researcher/Energy Specialist, Urban Energy Manager, Research Assistant at TUCN.

СМО

Elena Hurjui in

20y marketing experience in leading brand comm for over 40 international tech companies (including unicorns &

Series A+ startups)

brands.

and global consumer

Dan D. Micu (Dr. Eng. Mat. Prof.) Research Director

Double Fulbright Fellow, lectured at more than 50 Universities all over the world, Project Manager at 8 Horizon2020 Projects.

Andrei Ceclan in (Lect. Dr. Eng.) Strategic Partner

Lecturer at TUCN. President of the Romanian Society of **Energy Auditors and** Managers. Board Member in the Romanian Fund for Energy Efficiency. **Urban Energy**

Manager.

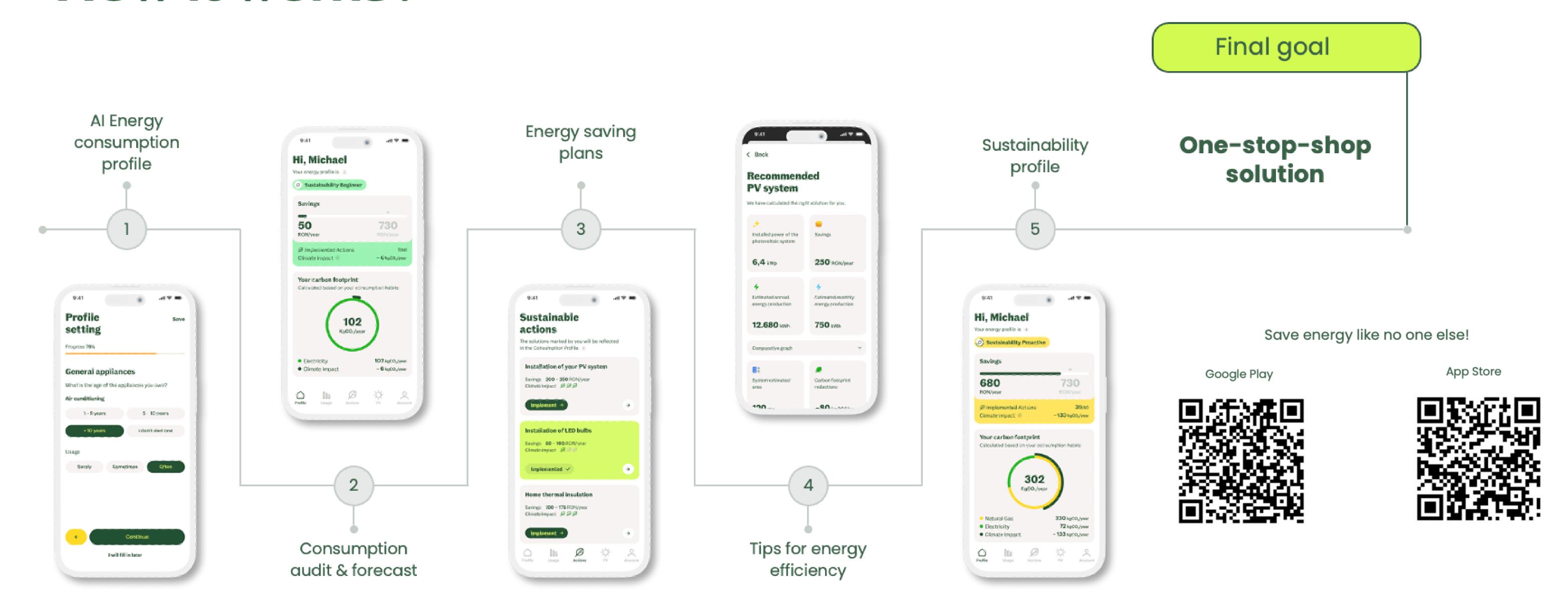
Tudor Vesa CTO

Multi-disciplinary leader with 15+ years of experience in software dev, software architecture. Leading high-performing teams to drive development of world-class platforms.

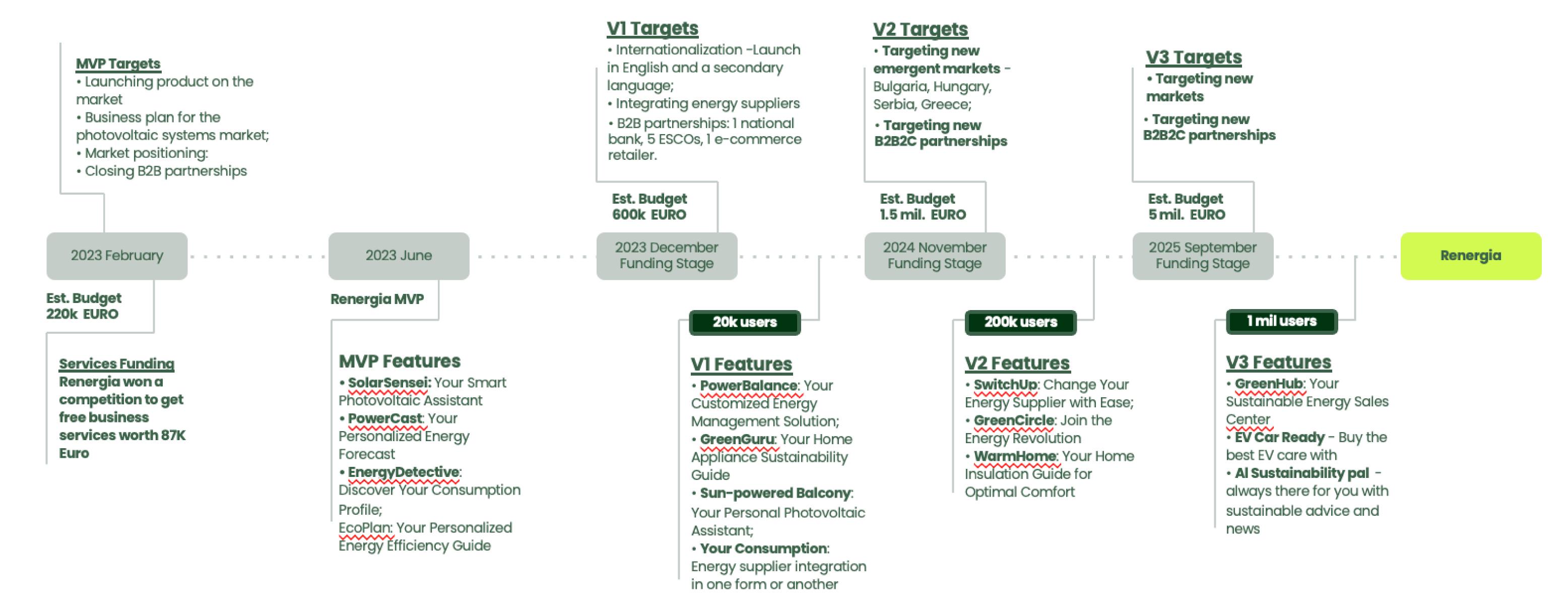
Renergia

The first app that gives you the power to cut off your energy bill and save money.

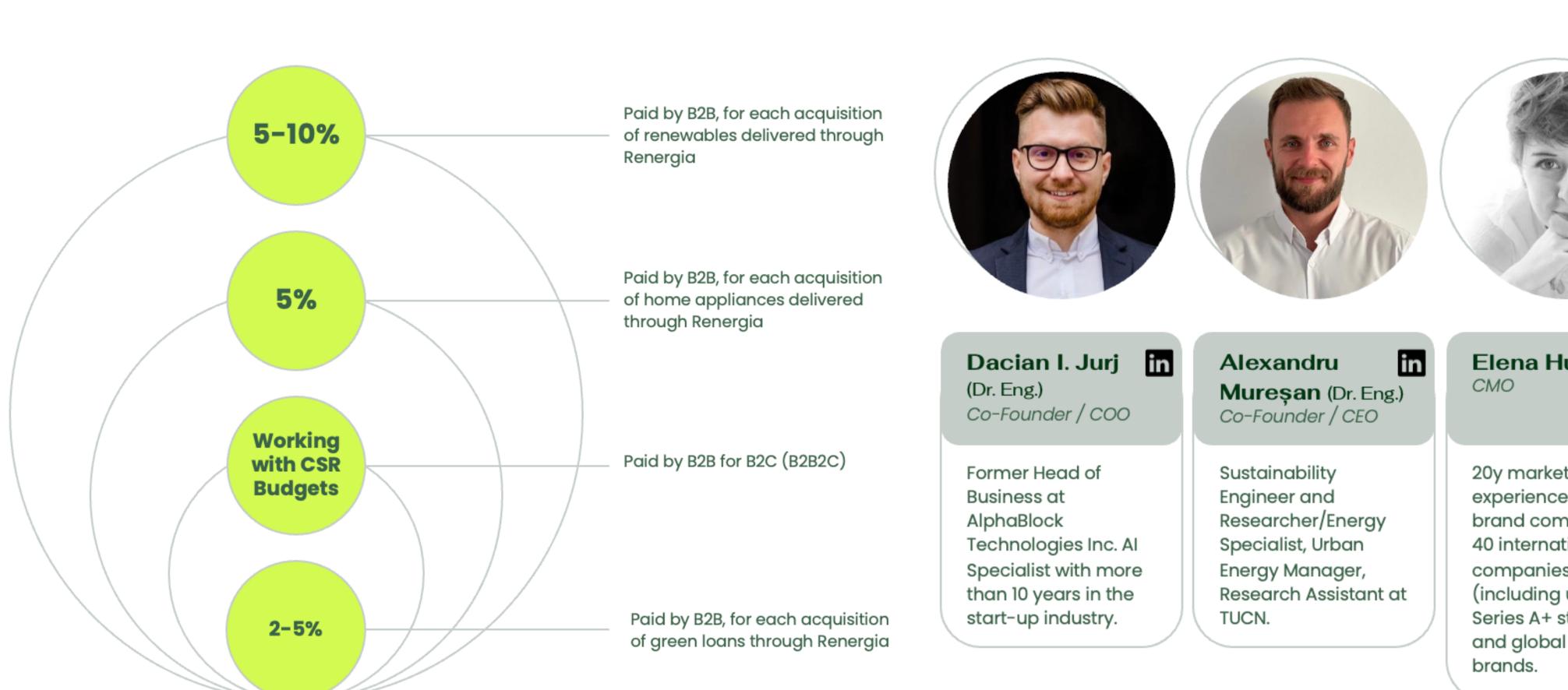
How it works?



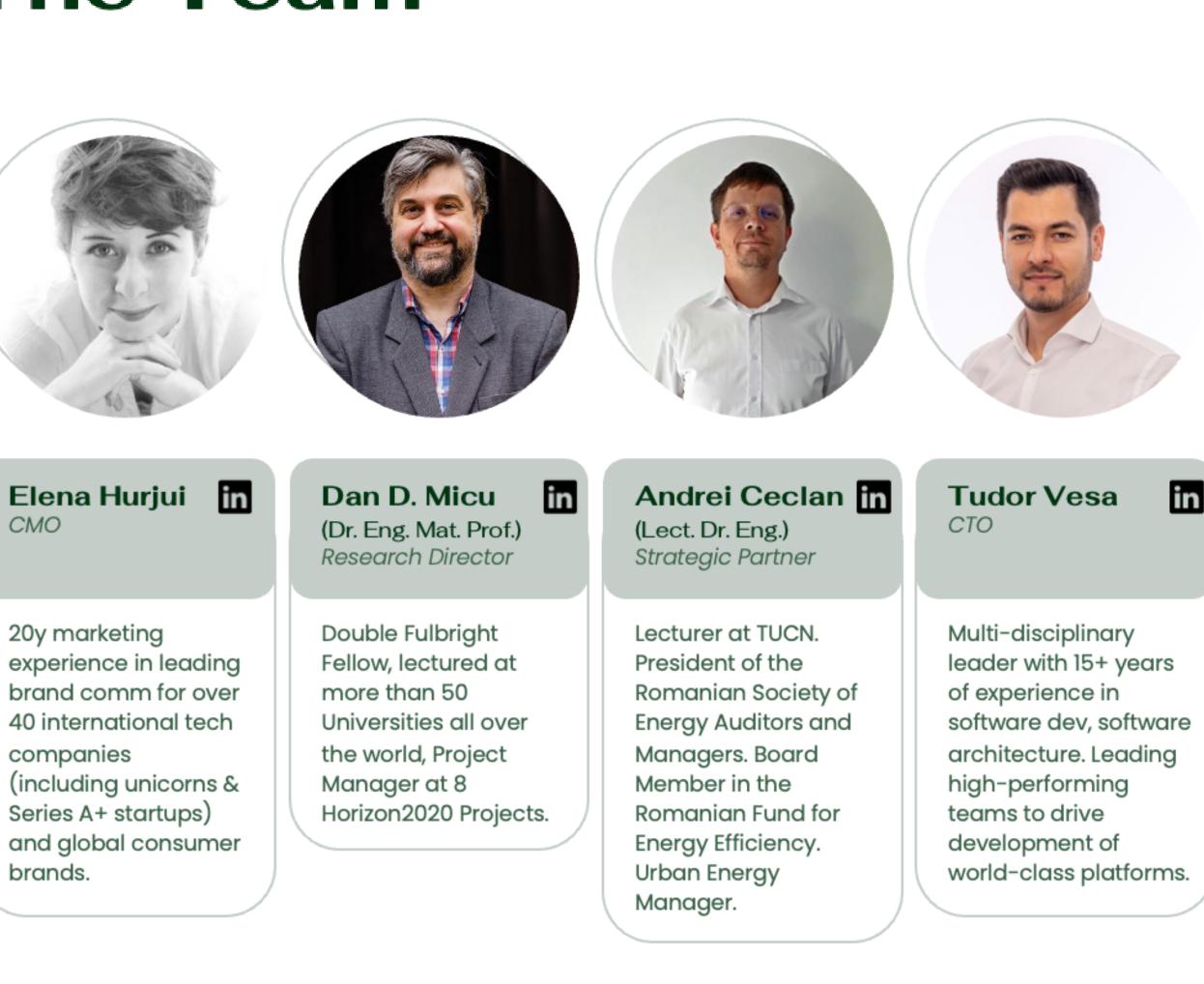
Roadmap



Revenue Streams



The Team





FNFRGY SHIFT

ENABLING CITIZENS TO JOINTLY INVEST IN AND CO-OWN SOLAR FARMS

INTRODUCTION

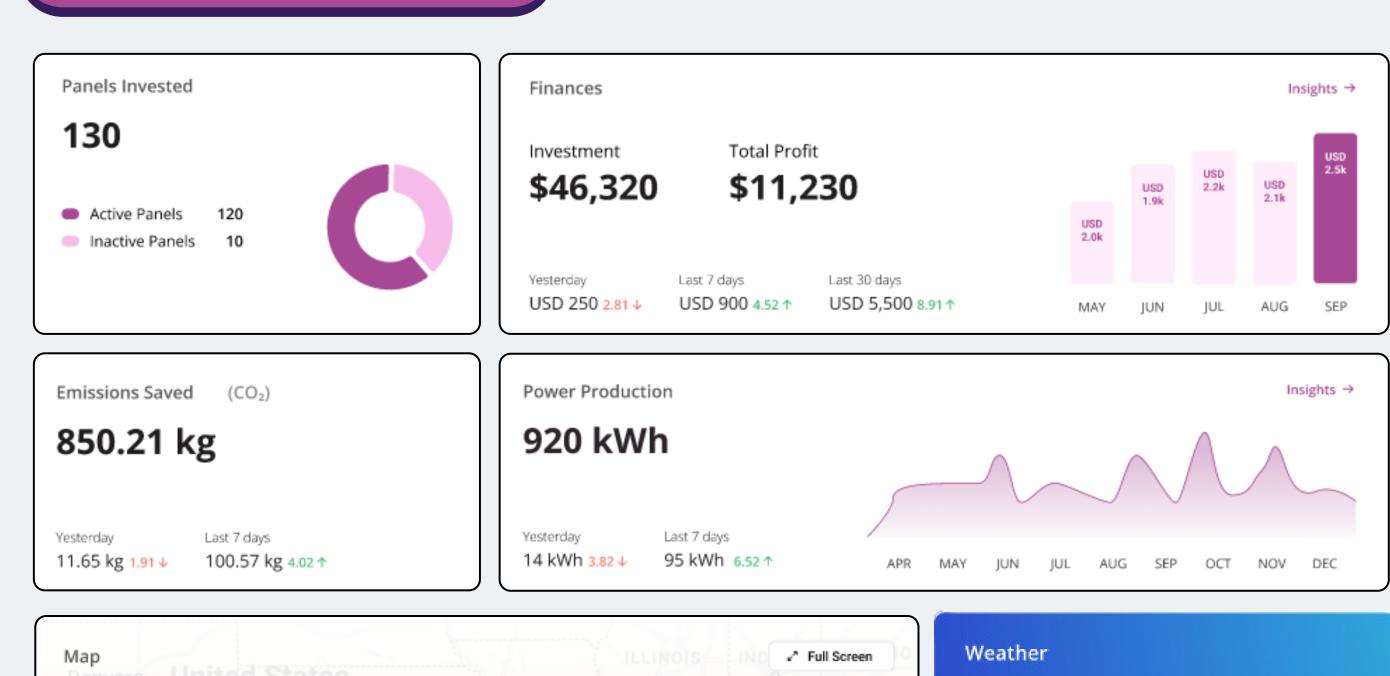
- Energy Shift is a blockchain powered platform that enables citizens to jointly invest in and co-own solar farms, thus democratising the energy sector and enabling citizens to actively participate in the energy transition to renewable energy.
- Our focus on financial inclusion allows individuals to invest from as little as 100 euros upwards, ensuring that sustainable energy opportunities are accessible to everyone. Through this approach, we not only promote clean energy adoption and reduce carbon emissions but also democratize the renewable energy investment landscape, enabling a broader segment of the population to participate in and benefit from the transition to clean energy.
- Challenges we solved:
 - Access to Finance: Historically, access to renewable energy projects was limited to large-scale investors and corporations, leaving citizens largely excluded.
 - Citizen Engagement: Engaging citizens in renewable energy projects was challenging due to financial barriers and lack of participation mechanisms.
 - Policy Alignment: Policymakers sought innovative approaches to involve citizens in renewable energy initiatives while complying with existing policy frameworks.
- Target Audience: Industry leaders, policymakers, environmentalists, and technology enthusiasts.
- Geography: Initially, we've focused on SEE region, with plans to expand across EU then globally.
- Timeline: Our project commenced in 2021 and is ongoing.

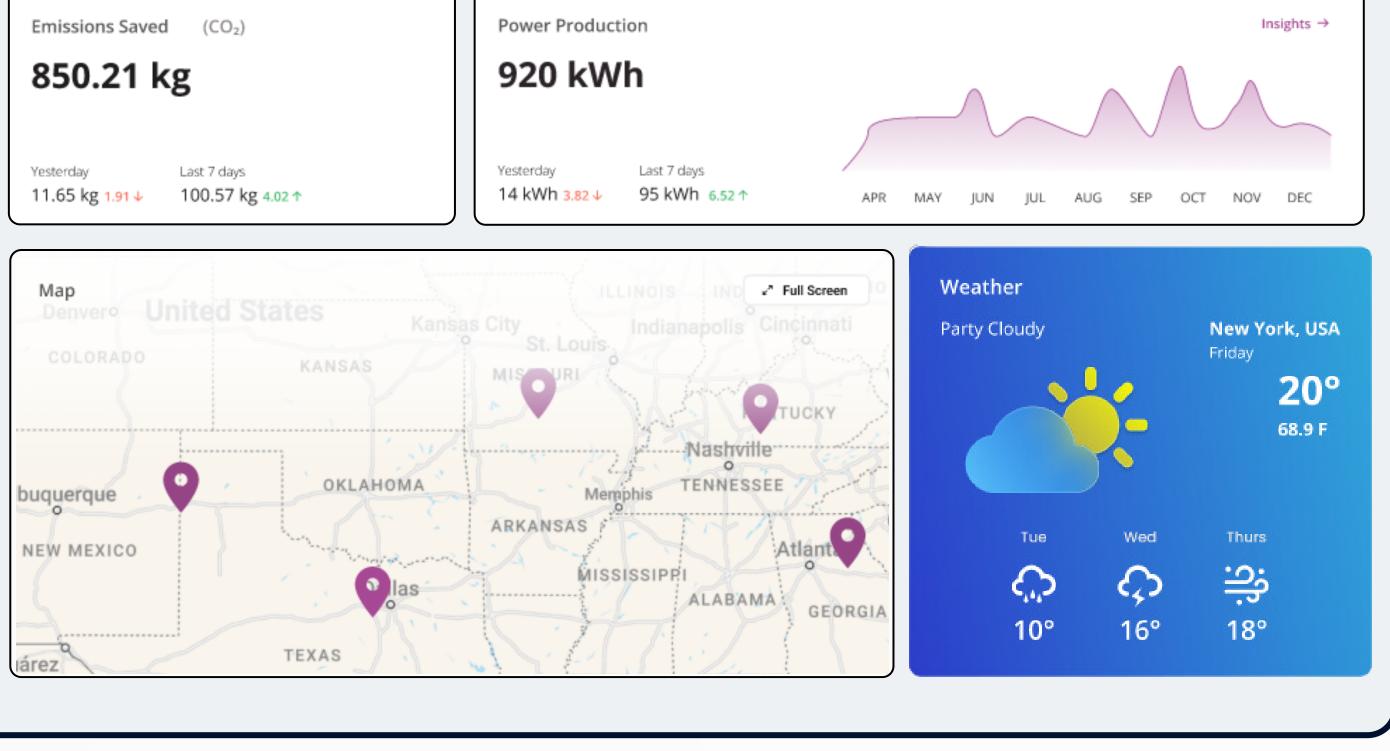
METHOD:

Our project development encompasses the following key steps:

- Resource Assessment: Identifying suitable locations for renewable energy installations using GIS.
- Blockchain Development: Enabling transparent and secure transactions.
- Community Engagement: Empowering local communities to manage and benefit from renewable energy systems.

DATA VISUALIZATION:





RESULTS & DATA ANALYSIS:

- Financial Inclusion: Energy Shift has set a low barrier to entry, with a minimum investment amount of just 100 euros. This financial inclusivity allows citizens from all walks of life to participate in renewable energy projects.
- User Engagement and Investment: To date, Energy Shift has successfully onboarded more than 2,000 citizens onto our platform.
- International Recognition: Our company was featured in the SET100 list of TOP100 energy startups Worldwide, ranked by DENA and the World Energy Council. Our founder was featured in Forbes 30 under 30 and awarded the EU Young Energy Trailblazer award, awarded by European Commission.

CONCLUSION:

- In summary, Energy Shift has embarked on a transformative journey towards a sustainable and equitable energy future. Our project seeks to empower ordinary citizens by providing them with the opportunity to invest in renewable energy projects, with a minimum investment amount of 100 euros.
- Looking ahead, our expectations are ambitious. Over the next five years, we aim to expand our user base to 10,000 individuals, unlocking an investment potential of 100 million euros. We plan to extend our footprint from the European Union to North America and Africa, thus contributing to a broader global shift towards renewable energy sources. Our goal is not only financial but also environmental, as we aspire to reduce 100,000 metric tons of CO2 emissions during this period.
- However, it is essential to acknowledge the limitations of our project. While we strive for financial inclusion, challenges related to regulatory frameworks and scalability may pose obstacles. Additionally, the renewable energy sector is subject to market fluctuations and geopolitical factors, which may impact investment opportunities.
- Nonetheless, Energy Shift remains resolute in its commitment to facilitating renewable energy investments for all and fostering a greener, more sustainable future. We believe that by addressing these challenges head-on and continually innovating, we can overcome these limitations and make a significant positive impact on the global energy landscape.

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- Smith, J. et al. (2022). "Renewable Energy Investment Trends in Europe." Renewable Energy Journal, 28(3), 45-62.
- Johnson, A. et al. (2021). "Empowering Citizens Through Renewable Energy Investments." Clean Energy Today, 15(2), 112–130.
- European Union Renewable Energy Directive. (2020). Retrieved from https://eur-lex.europa.eu

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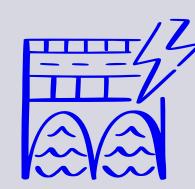
We would like to extend our heartfelt gratitude to the Energy Shift team, whose dedication and expertise have been instrumental in the development and success of this project. Special thanks to our collfounders, advisors, and all registered users who have shown unwavering support for our mission of making renewable energy accessible to all. Together, we are driving positive change and paving the way for a more sustainable future.



DISTRIBUTED SOLAR FARMS

1MWp Solar Farms located in high energy consumption spots.

ENERGY SECTOR CONTEXT IN COLOMBIA



84% Colombia's energy comes from Hydroelectric Power Plants



New installed capacity is not being added fast enough to meet demand



High vulnerability to climatic phenomena such as El Niño



Accelerated increases in energy prices (up to 149% this year)

COMMON SOLUTIONS



Distributed self - generation

- High costs of investment
- Unused area needed (roofs)
- High electrical and legal requirements

65% Renewable projects delayed

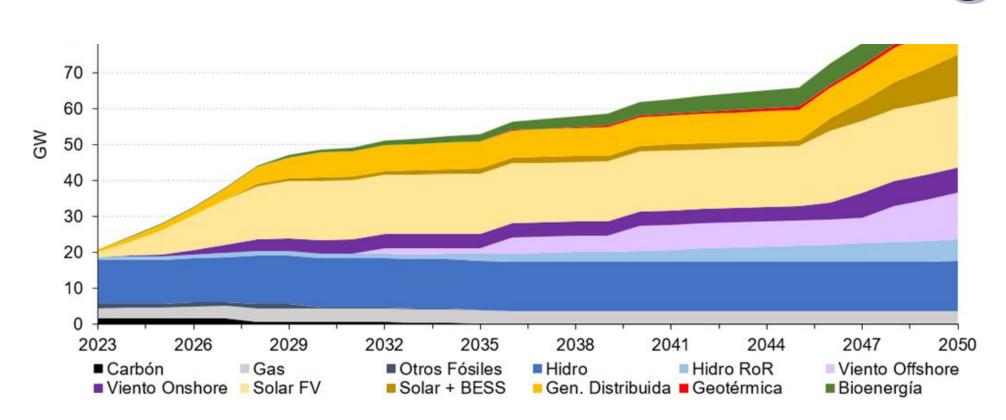


Utility-scale solar farms

- Socio-environmental impacts
- + 4 years development time
- High investment

Saturated electrical grid Increased demand

OUR SOLUTION: POWER GENERATION WITH QUICK START-UP SOLAR MINI FARMS



Market of more than 70GW in distributed generation by 2050

(MME, 2023)



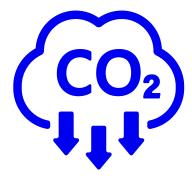
- Smaller area Less impacts
- Less grid saturation
- 1 year construction time
- Regulatory benefits

We seek to develop 500 mini-farms by 2035

Current portfolio of 8 mini farms



homes supplied



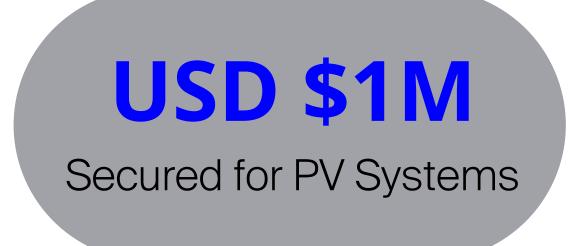
579.600 ton CO2 eq / year Local jobs per project



ABOUT US

+30 Consolidated team

+40 Solar projects constructed



CO - FOUNDERS

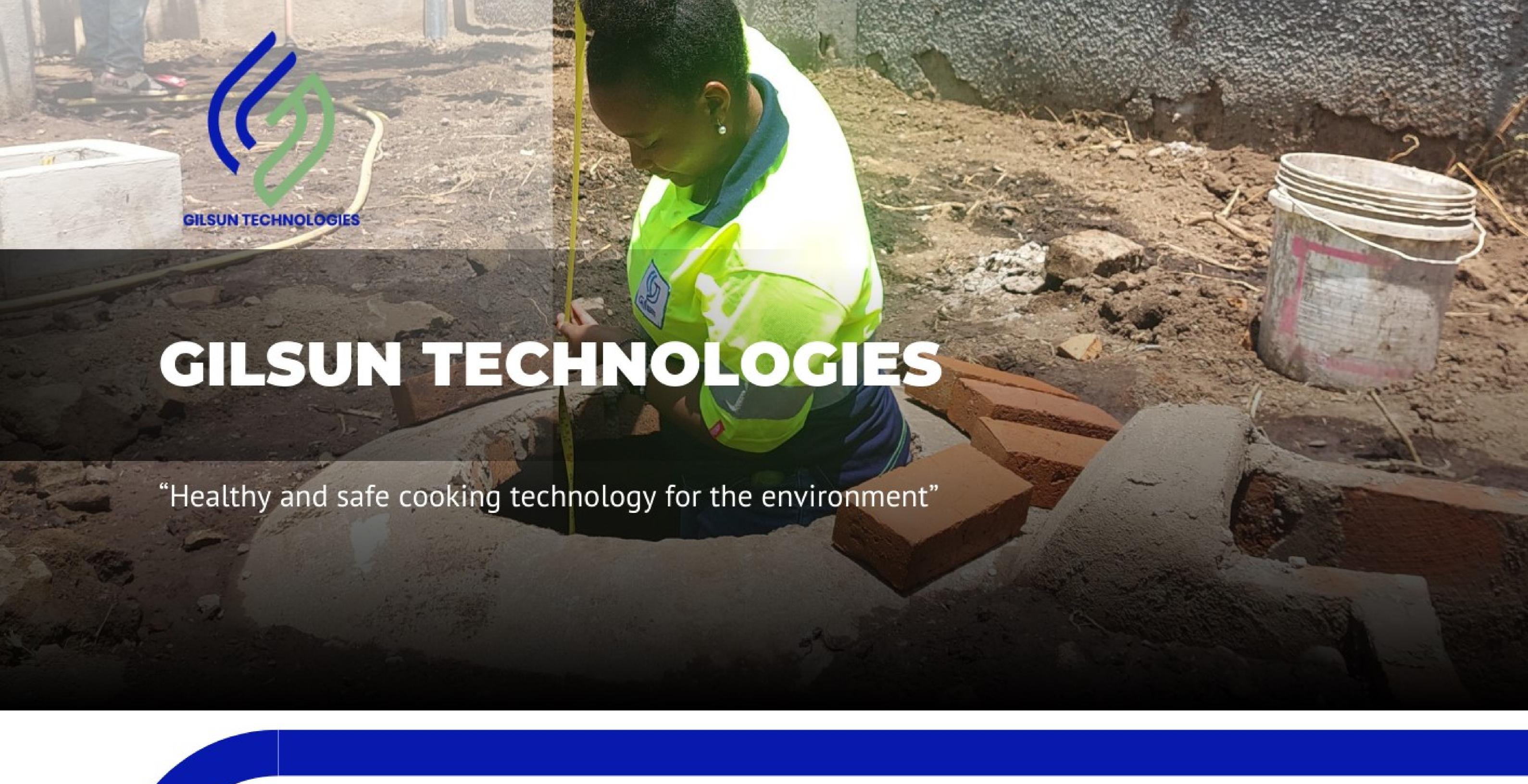
Juan España (CEO) Hermann Souza (CGO) **Daniel Medina (CBO)**



Contact us



www.evolti.co





Introduction

Due to an increase of air pollution, land degradation, deforestation, Healthy issues and accidents caused by the wrong cooking methods to family and house holds, at ,Gilsun Technologies we came up with solution of building biogas systems that produces gas from manure (cow dung, Human fesses and food remaining) that is used as source of clean cooking through clean gas...





Method

We are creating / building a biogas system that is used to produce 100% clean energy that is used as source of energy for cooking and power. By the use of blocks, Digester Tank, Inlet System, Mixing and Stirring Equipment, Gas Holder or Storage, Outlet System, Piping and Valves, Monitoring and Control System and more depending on the system we are building





our mission

90% of Tanzanian households currently are use charcoal or firewood for cooking and that's why our main mission is to help solve the challenges they are facing with the fact that about 1.16M Hectares of forest land has been lost between 2015-2020 with too much effect on climate. We are on mission to solve the issue by serving a min of 50% of the population based in North and central part of Tanzania who are mostly livestock keepers





why choose us?

Gilsun Technologies is a renewable energy private company registered in Tanzania specializing in the construction of biogas systems. We consult, design, construct and install renewable systems to provide clean, environmentally friendly and affordable energy solution to improve people's livelihoods



Leading Team



Eng. Suzan Munuo

Founder and CEO of Gilsun Technologies with

6 years Experience in renewable energies business and activities.



Faraji H. Emily

Projects Coordinator with 10+ Years Experience in Business development and Innovations.



Sesilia Temu

Environmental officer with an experience of more than 5 years working with government and other stakeholders in Environment issues







GREEN POWER PLUS THE FIRST EXPERT NETWORK IN CLEAN ENERGY AND FINANCE LEVERAGING GENDER EQUALITY FOR PLANET, PEOPLE, AND PROFIT THROUGH AI FOR GOOD



Dr. Esmeralda Colombo, Esq., Co-Founder and CEO, GP+ Natalie Sperber, Co-Founder and COO, GP+

INTRODUCTION

CLEAN ENERGY

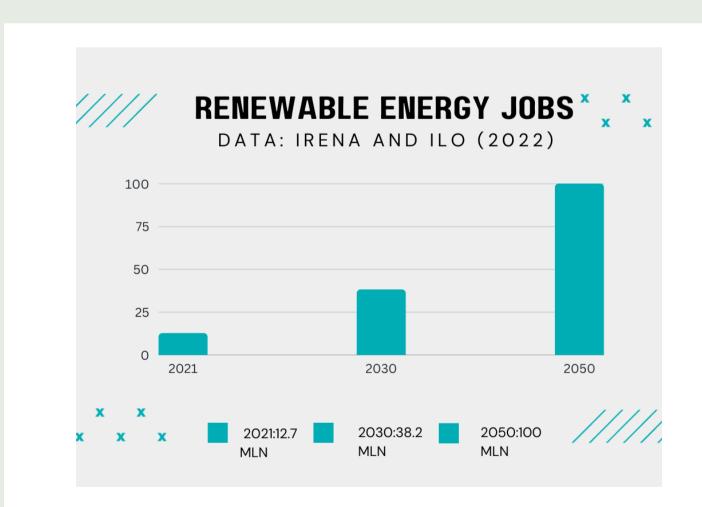
SUSTAINABLE **FINANCE**

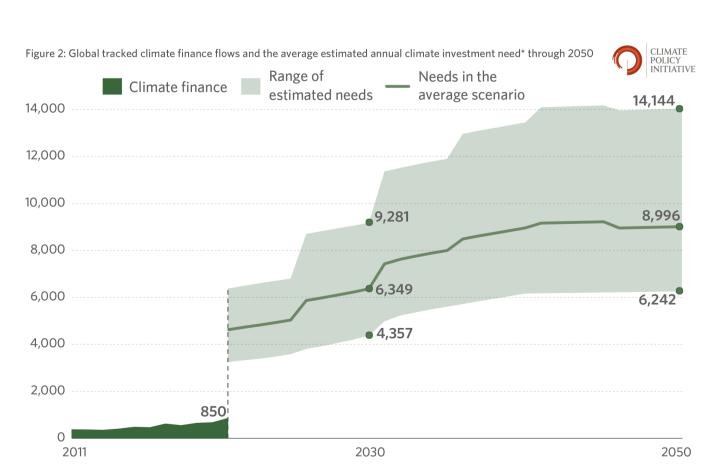
There could be 300 million green collar jobs by 2050. 100 million jobs are in clean energy (IRENA and ILO, 2022).

The annual cost of sustainable finance is projected to increase to between USD 315 billion and USD 565 billion by 2050 (Europarl, 2023).

Although women's skills are key to our net-zero future, women are underrepresented in two key sectors in just transition scenarios: clean energy and sustainable finance. There are 76% fewer women than men working in the energy sector (IEA 2022). Finance features only 10.3% women among its thought leaders (Adams and Xu, 2022).

Green Power Plus (GP+) is the first expert network dedicated to elevating women in the green energy and finance spaces. GP+ is a community with a double hat. **First**, it offers governancebased programs to integrate sustainability and gender equality in organizational culture. Second, it simplifies the connection between women talent and industry needs by finding a match when corporate and institutional actors are looking for a new hire, harnessing AI for Good. Headquartered in Milan, it caters to corporate and institutional actors while providing a supporting community for workers to shape a net-zero future.

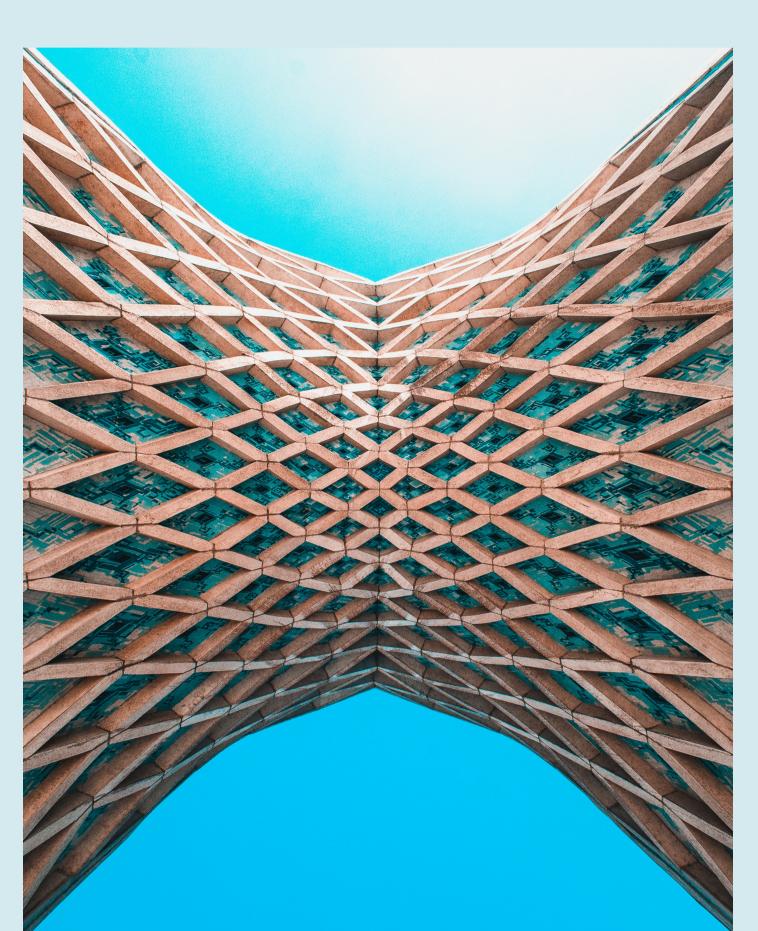




METHODS

- KPIs for team self-growth
- Coaching
- Network
- Post-classes chats
- Capability approach
- Organizational culture and deviance
- Al for good
- TEDx talk-style

OUR RESULTS ARE TWO KEY SERVICES



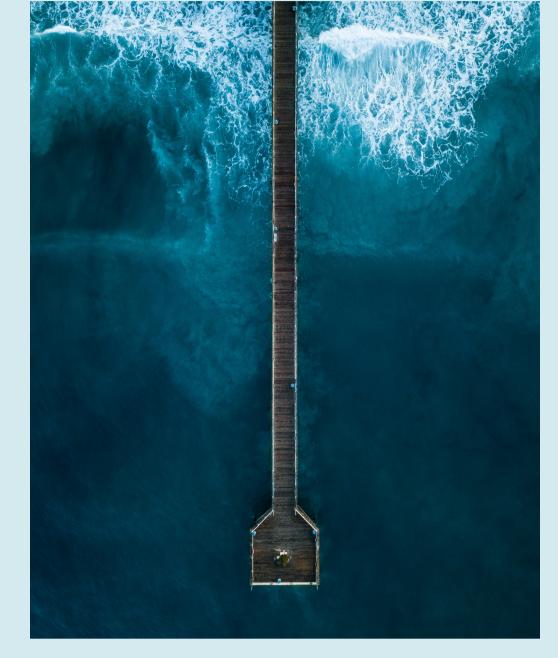
NET-ZERO INDUSTRY ACADEMY

Our NZIA offers governance-based

programs to integrate sustainability

and gender equality in organizational

culture, all at once.



RISE TO A SEA OF POSSIBILITIES **GP+ tackles the social side** of the Green Deal

Meet the people leaving their carbon-intensive roles behind, as well as the hyper-qualified women in green energy and finance that traditional HR channels are failing to empower.

Viewing the Sustainable Development Goals (SDGs) as the world's matrix toward which societies, companies, and governments are striving toward by 2030, GP+ has a direct impact on SDG5 (gender equality), SDG7 (clean energy), SDG8 (decent work and economic growth), SDG9 (industry, innovation and infrastructure), SDG10 (reducing inequality), and SDG13 (climate action).

Our network has indirect impacts on SDG3 (health and well-being), SDG12 (responsible consumption and production) and SDG16 (inclusive institutions).

Considering the interlinkages among SDGs, our network leverages SDGs 5, 9, 10 and 16 to accelerate SDGs 7 and 9, and contribute to advances in SDGs 3 and 23. All at scale and speed.

ROBIN Neural Networks Machine Learning

ARTIFICIAL INTELLIGENCE

Through our matching platform, Robin, we seamlessly connect female green talents to net-zero industry needs.

CONCLUSION

Limitations, Milestones and Way Forward

Our two-year action plan includes three partnerships in place with key corporate and institutional actors (Dec 2023), the launch of our Albased talent platform Robin in a beta and build version (Jul 2024), the platform launch in English and Italian (Jan 2025), Spanish and Norwegian (May 2025), Hebrew and French (Sept 2025).

GP+ turns the dial on gender equality in sustainability sectors as a cross between a women's talent scout and a credible innovation specialist involving the entire workforce.

It creates a supportive community of practice through a specialized AIbased talent platform and a net zero industry academy.

Reach your highest potential and be in touch!

LinkedIn

www.linkedin.com/company/ gpplusspace

Twitter

@gpplusspace

Instagram @gpplusspace

THANKS

We would like to thank the IRENA for selecting and showcasing our business

First graph: GP+

Second graph: Climate Policy Initiative

First picture: sam-moghadamkhamseh, Unsplash

Second picture (clockwise): sherman-yang, Unsplash

Third picture (bottom): E. Colombo, BioRender



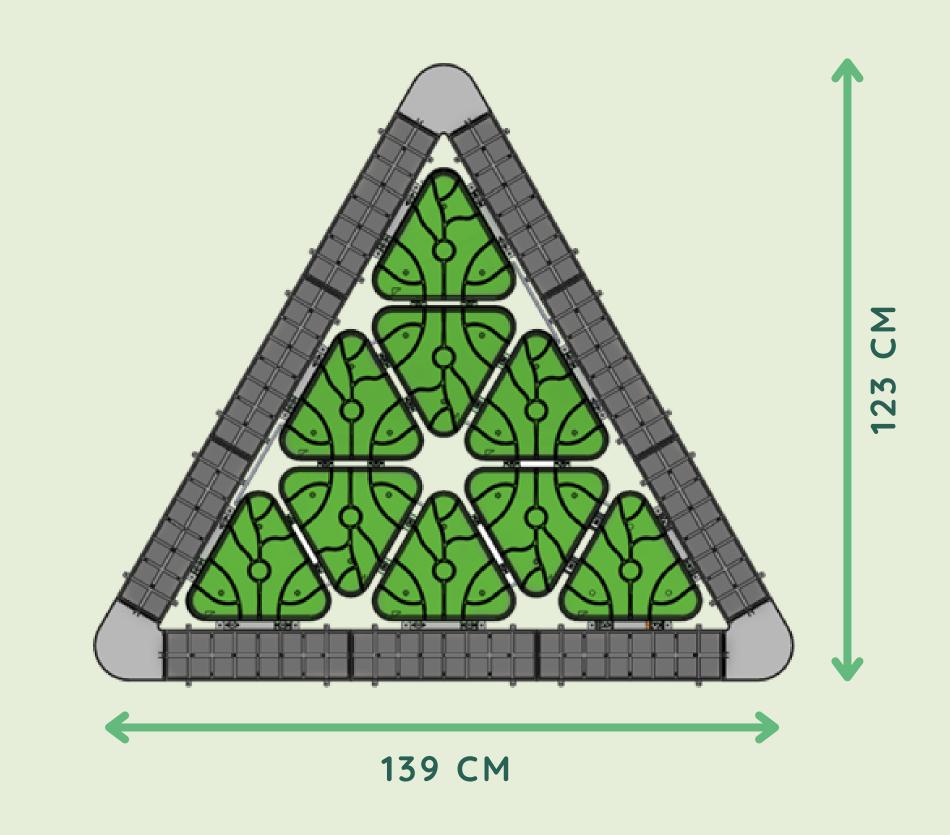
GREENFLUIDICS INTELLIGENT SOLAR BIOPANEL

Founders: Adan R.S., Richard U., Miguel M.R. Email: adan.ramirez@greenfluidics.com

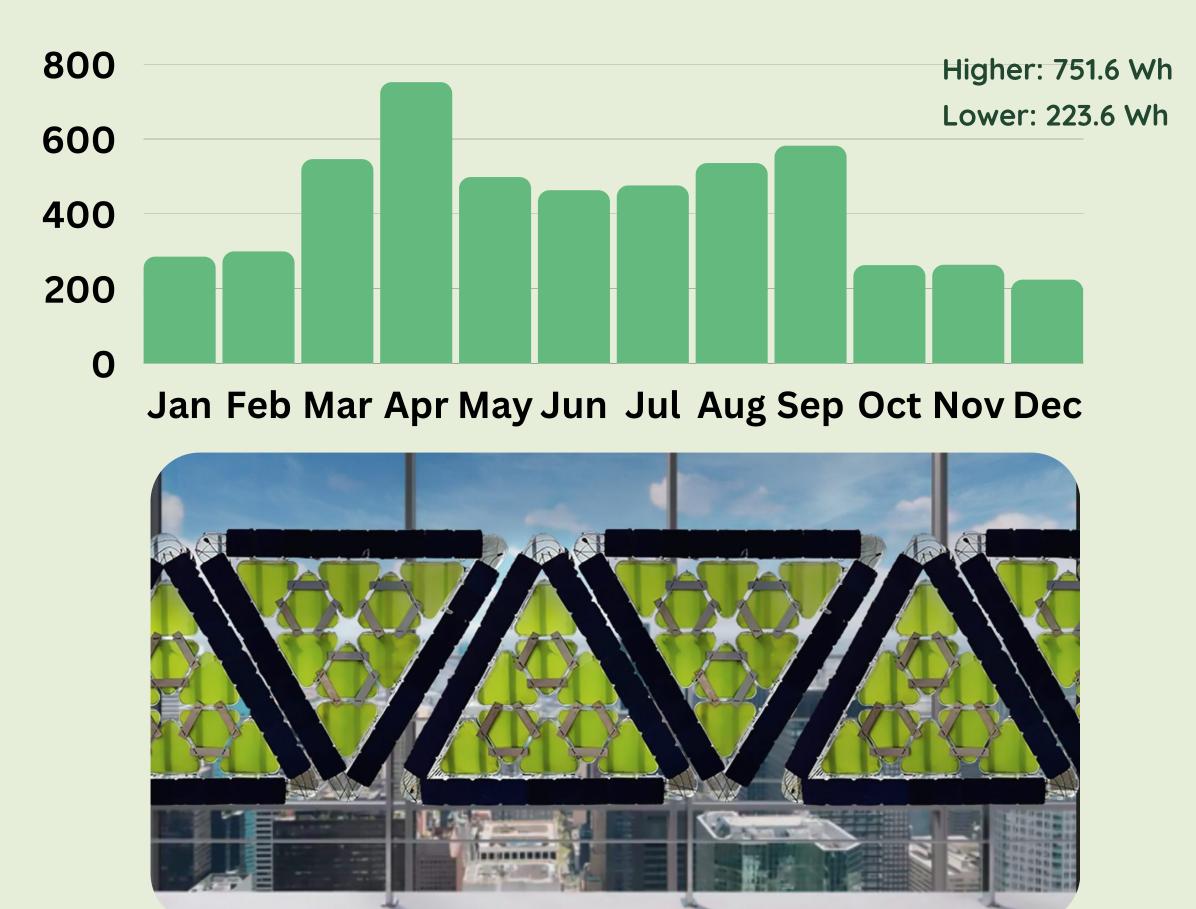
Our living façades merge biotechnology and solar energy to create a vanguard design that generates energy and mitigates carbon footprint. We aim to revitalize buildings in sustainable cities with this circular economy based on microalgae and solar cells.

INTELIGENT SOLAR BIOPANEL

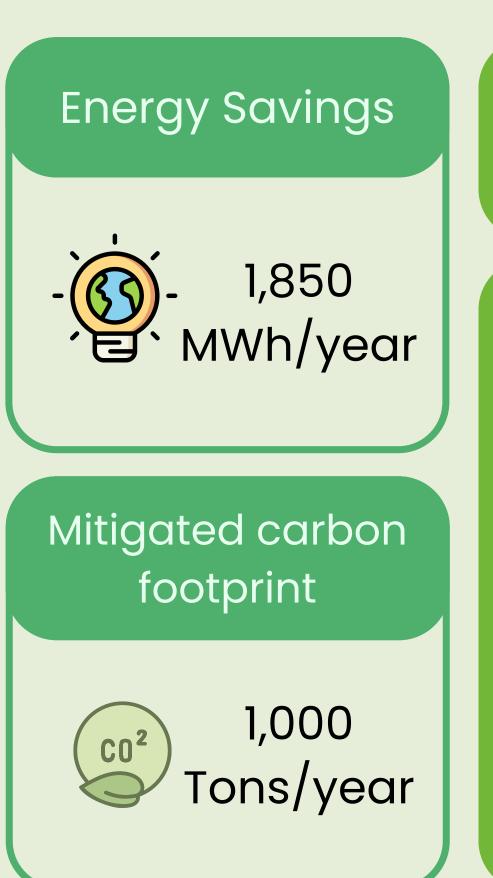
Our patented living facade system combines biotechnology and photovoltaic energy provide energy savings, carbon footprint mitigation, environmental data analysis, and biomass byproducts.



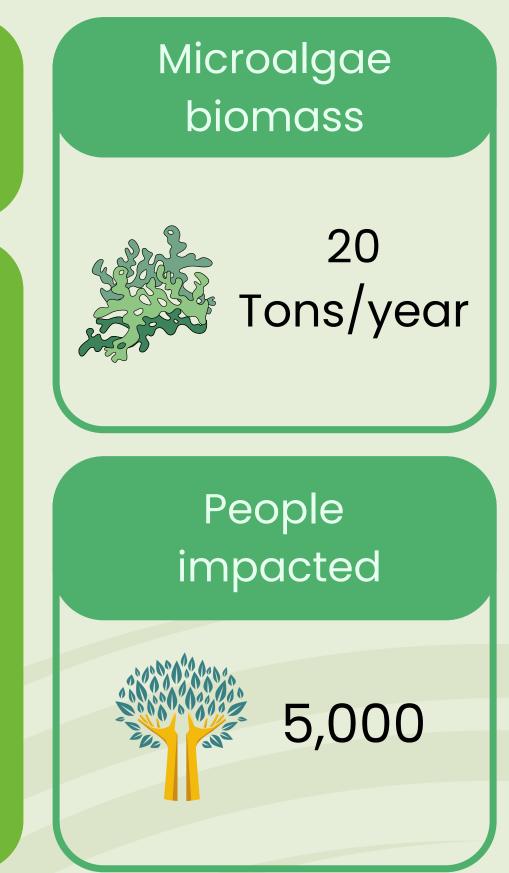












NEXT STEPS

2023

Q3

- Opening P-Seed Round
- Planning with Fraunhofer Inst.
- - Manufacture Biop in Mexico
 - Kick-off Fraunhofer
 - Branch in Germany

2024

- Pilot test in Mexico
- Fraunhofer prototype, Germany
- European funds
- - Soft-landing Germany
 - German Partners Test
 - Real Env. Prototype
- - Opening Seed Round
 - Pilot in Germany
 - Dealing Foster + P

INVESTMENT **PROPOSAL**

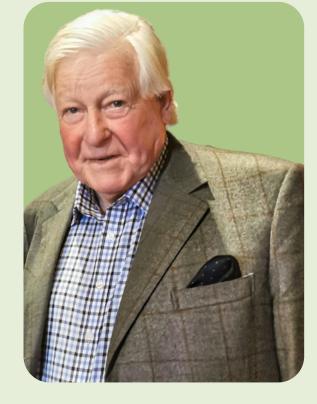
P-Seed Round:

400,000 EUR Minimum

Entry Ticket:

40,000 EUR

EXECUTIVE TEAM



Richard Unwin NEC aer Econsultantly



Adan Ramirez CEO ie we l'if



Miguel Mayorga CDO

UNIVERSITATE BARCELONA



Melisa Monrroy CTO TUDelft Tecnológico de Monterrey



Axel Mendez CFO



different areas

+9

experts in

David Samra CMO Deloitte. Tecnológico de Monterrey FUNO H=RO



ABOUT US

We developed a groundbreaking BIPV (Building Integrated Photovoltaics) solution consisting of a multipurpose polycarbonate sheet integrated with solar cells. This sheet can replace traditional roofing materials and automatically connects without the need for cables to extract collected energy through the final unit.

WHAT WE AIM TO ACCOMPLISH



02. Zero Hunger



07. Affordable & Clean Energy



03. Health & Wellness



09. Industry & Innovation



06. Clean Water



11. Sustainable Cities

OUR EDGE

Our Solar Sheet stands out for its versatility, thanks to its ultra-lightweight, durability, and antidust properties. This makes it ideal for a wide range of applications, including rural housing, greenhouses, and various projects.

We offer an innovative BIPV solution that combines energy efficiency with ease of installation, reducing costs and construction time.



- Light-Weight
- Antidust
- Semi-Transparent
- Low Maintenance
- No Infrastructure required
- Does not damage the soil
- Sustainable life cycle
- Ideal for rural/agro areas







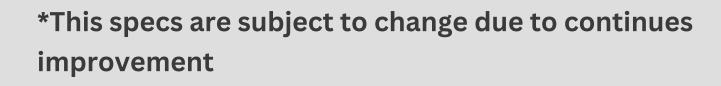
ELECTRICAL DATA

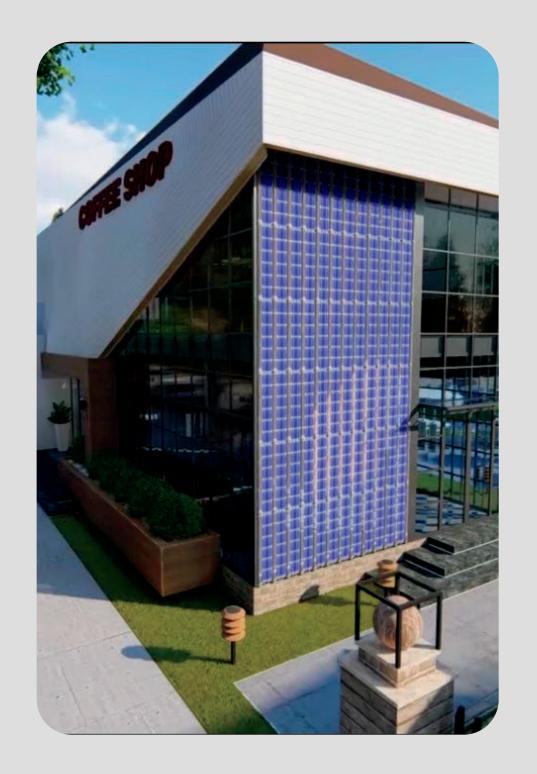
Maximum nominal power. (Pmax)115 W Operating voltage opt. (Vmp) 0.582 V Operating current opt. (Imp) 9.79 A Open circuit voltage (Voc) 0.689 V **Module efficiency** 22.60 % **Operating temperature** -40°C ~ +85°C Max. system voltage 1500V (IEC/UL) Module fire performance Type 1 (UL 1703) o Clase C (IEC 61730) **Application classification class** A Power tolerance 0 ~ + 10 W

* Under standard test conditions (STC) of irradiance of 1000 W / m2, AM 1.5 spectrum and cell temperature of 25 ° C.

MECHANICAL DATA

Cell type Polycrystalline Cell layout 20 (5 X 4) x mt. **Standard length** 1.00 – 2.00 – 4.00 MTS. Standard width 1.100mm Weight 3.5 kg x sq m **Cover:** 0.8 mm a 1.2 mm J-Box IP68, 3 bypass diodes Cable 4.0 mm² (IEC), 12 AWG (UL) Cable length vertical: 400 mm (15.7 in) Per pallet 30 pieces Per container (40' HQ) 840 pieces









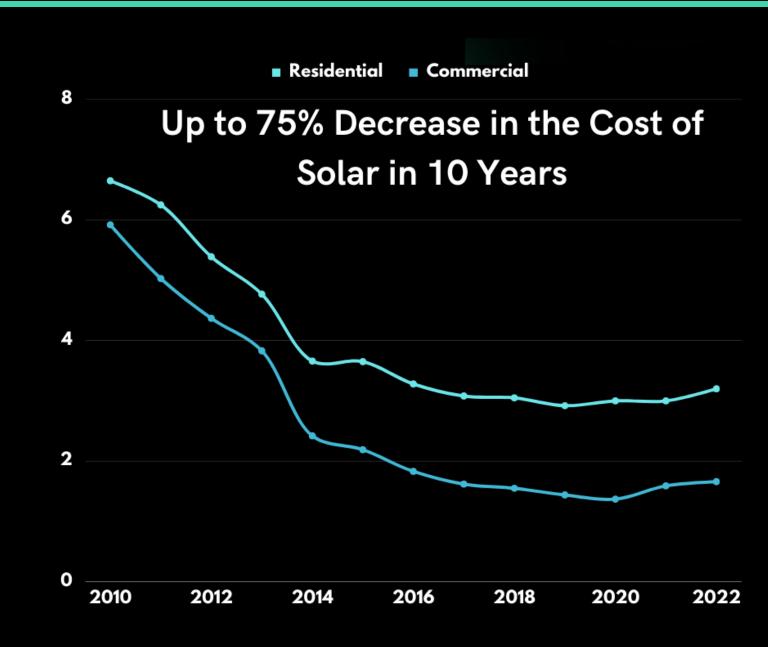






We Turn Every Building Into a Power Plant

The Problem



- We need cheap, clean energy but the grid is unfit for purpose
- Upcoming EPC regulation is stranding assets and millions more by 2025
- Solar energy has never been cheaper and is the best local source of sustainable energy but installing solar is complex and costly for property owners

Our Solution



Remote Site Selection

Property Owners upload their property portfolio. Metris' software remotely assesses properties, forecasts economics and selects the best properties to install.



Financing

We plug into capital providers on the back end to match funders to opportunities, forecast returns and give property owners easy and transparent choice.



Onboard & Install

Our platform streamlines onboarding, where customers invite collaborators and track progress. Once completed we work with 3rd party installers for the final installation piece.



Operations on Autopilot

Project owners use MetrisOS for project monitoring, billing, payments and collections.

MetrisOS also delivers a billing, energy and emissions insights portal to tenants.

Why Choose Metris



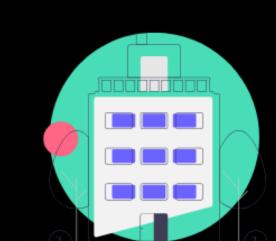
End-to-End Solution We manage quote, design, installation and ongoing

operations - no need for project consultants and inhouse expertise.



Sustainability Made Easy

Landlords improve the ESG credentials of their building and the EPC rating, a whole EPC band on average.



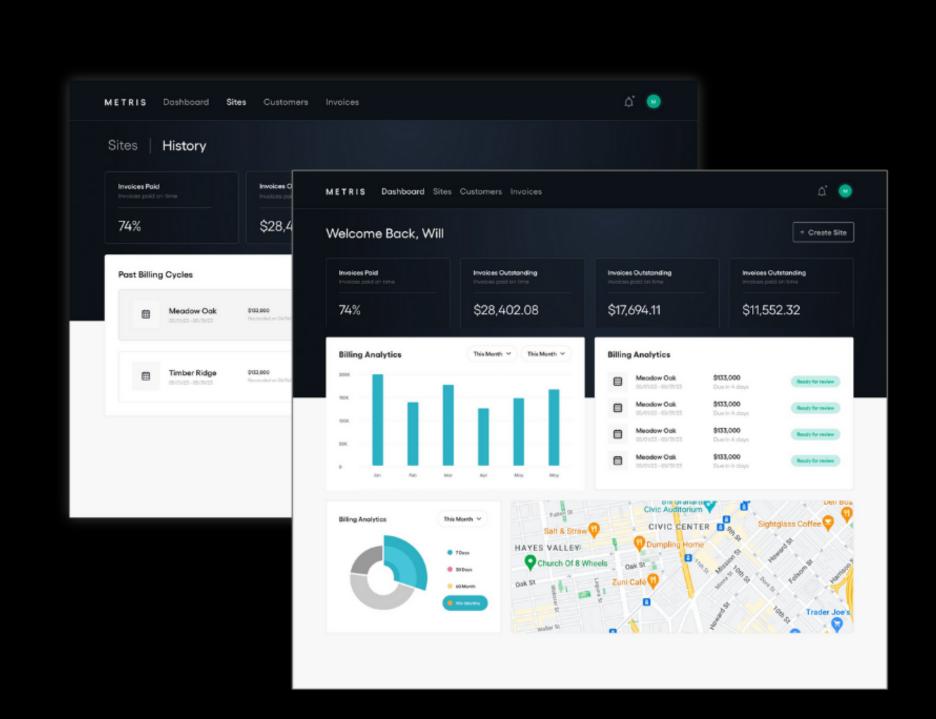
Increased Profit & Value

Property valuation increases
with the green premium and
owners generate extra revenue
or save on energy bills.



Attract & Retain Tenants

Landlords deliver extra value to tenants through reduced energy rates, lower emissions and an energy insight platform.

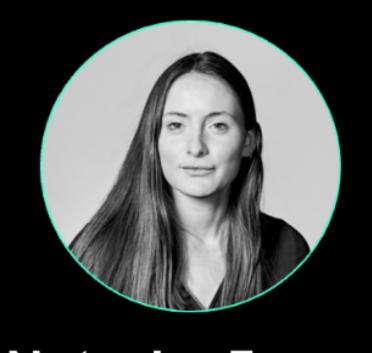


Our Team

- Serial CTO and Founder, scaling up to \$6M ARR
- CTO for Enterprise SaaS Platforms (Chezie, Athena)
- Tech lead for Carbon Monitoring (Treeconomy)
- Hardware Optimisation Expert (Lambda Function)



William Whatley Founder, CTO



Natasha Jones Founder, CEO



- Color Donal Distribution December
- Solar Panel Distribution Researcher













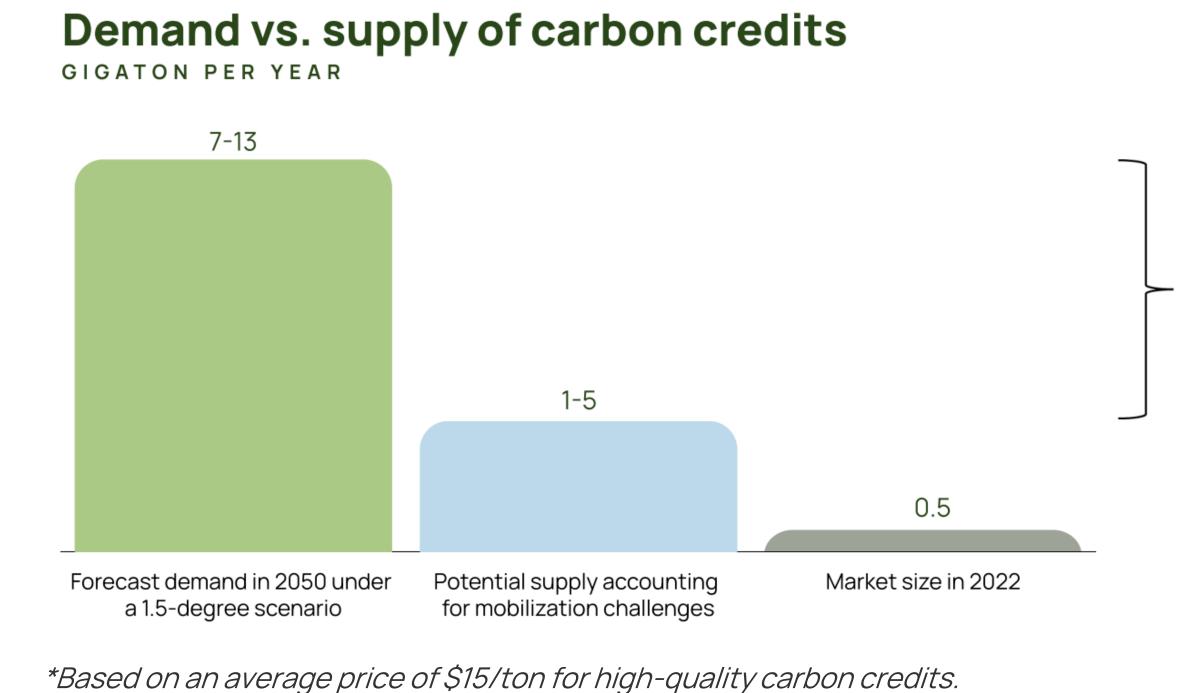


Unlock the full potential of your pro-climate business: carbon credits made easy.

WHO ARE WE?

NetaCarbon is a carbon credit issuance platform that digitizes and streamlines the process of how carbon projects are created and managed, reducing time and cost for project developers to go through the carbon credit registration and verification process.

\$45B supply gap in carbon credits...



Supply gap of 3-11 gigatons per year, translating to \$45B shortage by 2050*

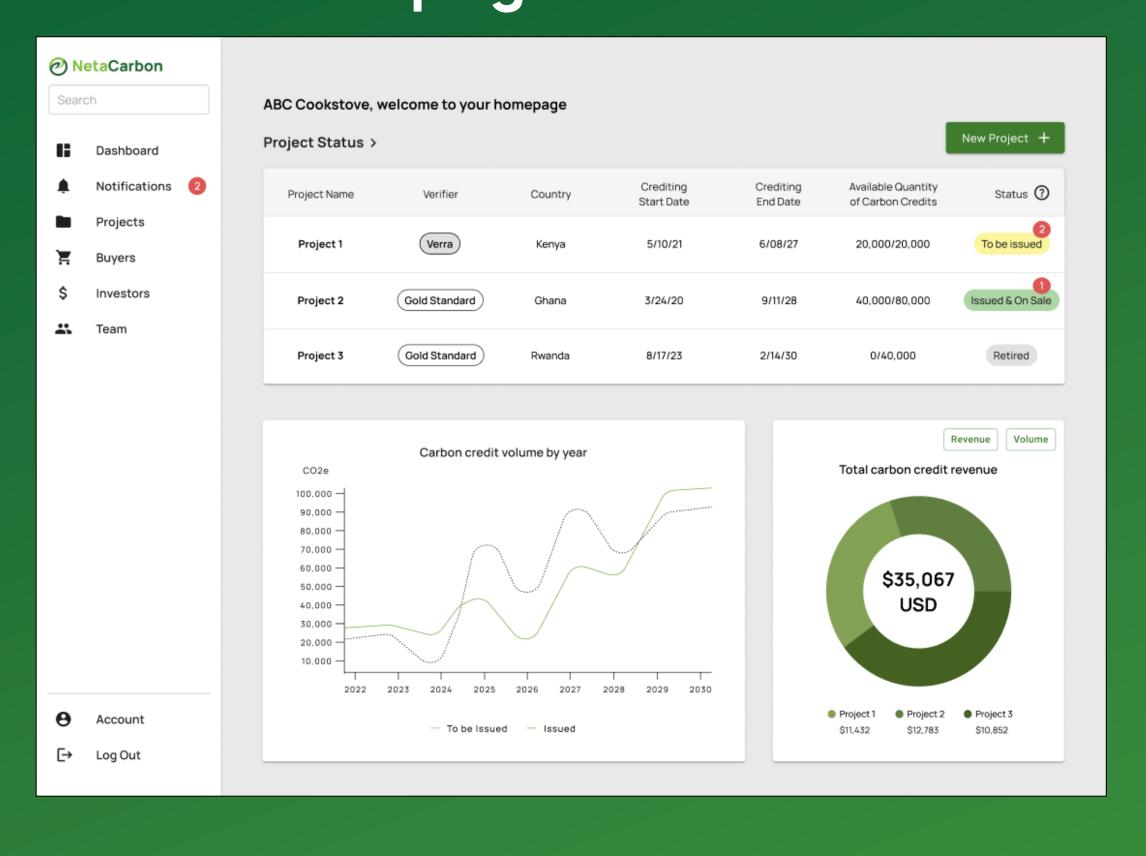
...Due to high barrier of entry



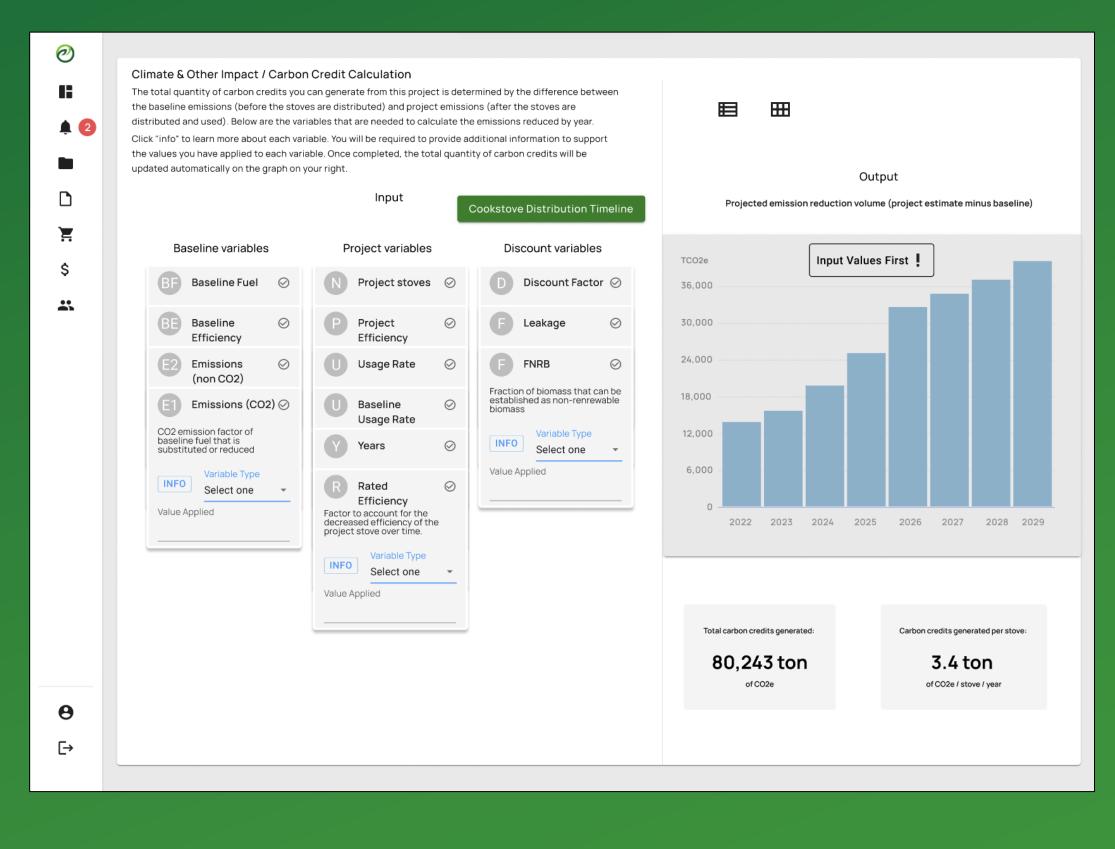
OUR PLATFORM

Source: "A blueprint for scaling voluntary carbon markets to meet the climate challenge, McKinsey & Company."

Homepage dashboard



Carbon credit calculation tool





We are now launching our first pilots with project developers in **Latin America** & Africa!





FOUNDERS



Mar Velasco

- MIT Sloan MBA
- Komaza (forestry startup in Kenya)
- Grupo Bimbo



Grace Lam

- Harvard MBA/MPP
- KawiSafi VC (pan-African climate VC)
- McKinsey & Company

SUPPORTED BY





















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NetaCarbon's LinkedIn Page



Subscribe to our newsletter



Contact us at hello@netacarbon.com if you are interested in learning more!



BAMBOO IS THE NEXT DISRUPTIVE SOLUTION FOR GLOBAL WARMING

"Global Bamboo Market Size | USD 66.20 billion in 2022"

There are more than **1600 species of Bamboo** worldwide Oxygenate Bamboo is developed from "Bambusa Balcooa through Tissue Culture Plants supply"

Oxyegnate: Our Company Offerings

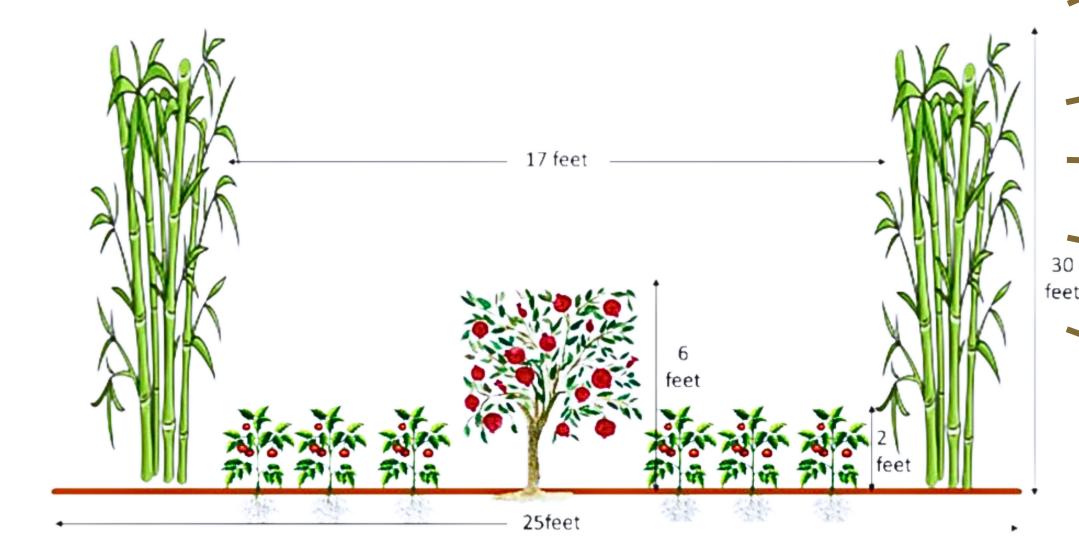
- 1. Bio engineered Tissue Culture Bamboo Trees
- 2. Precision & High Carbon Farming Techniques



Specifications:

- High carbon capture (450 kg CO2 per tree / pa)
- High oxygen generation (300 kg O2 per tree / pa)
- 1.5 ft 3 ft growth rate PER DAY
- Regenerative, replanted only once in 70 100 years
- Reduction of minimum 5 7 °C temperature
- Excellent renewable energy crop for generating bio ethanol, bio coal, green electricity
- Bamboo tree consumes 15L of sewage / waste water per tree, per day
- Permanent replacement to plastic
- 100% biodegradable
- No immediate competition globally
- Stronger than STEEL. Tensile Strength:
- Steel: 23,000 pounds / sq inch | Bamboo: 28,000 pounds

PLEDGE TO PLANT "BAMBOO OXYGEN FORESTS"



Global Warming & Climate Change

(Carbon Sequestration & Humdity)

Bamboo Biomass Renewable Energy
(Ethanol, Bio fuels, Compressed Natural Gas)

Waste Water Management

(bamboo Cultivation with rejected waters)

Agroforestry with Bmaboo

(Food Security & Sustainable Practices)

Biotechnology & Botany Education

(High Carbon Farming, Pecision Farming)

Area	1 acre (4000 sq mtr)	10 acres (40,000 sq mtr)
Oxygenate Bamboo Trees	900	9000
Co2 absorbed (tons)	80	800
Oxygen generated (tons)	60	600
Sewage water per day (litres) "Bio Remediation" Sewage water clearance	40,000	400,000



DR. ARSHI AYUB MOHAMED ZAVERI

CEO & FOUNDER

"LEADING THE VSION OF OXYGENATE GLOBAL"

CONTACT US

www.oxygenategroup.com info@oxygenategroup.com (971) 5092-87786

United Arab Emirates

Empowering Tomorrow: Sustain the World's Green Revolution

Sustain the World's Results

- 2500 Green job opportunities
- Youth-led startups & social enterprises
- > 90+ Cities in Lebanon

Winner of UN Global Climate Action Award at COP26

Top 6

finalist at the World Bank Youth Summit in DC in 2023

Top 50

initiatives for Young Global Changemakers in 2023

TOGETHER, WE ARE EMPOWERING
YOUTH AND WOMEN AS CATALYSTS
OF CHANGE, SHAPING A SUSTAINABLE
AND EMPOWERED FUTURE.

Sustain The World/RISE2030 is dedicated to advancing green energy technologies, enhancing livelihoods in rural areas, and catalyzing change by mobilizing youth and women as catalysts for change through green entrepreneurship and job creation programs.

Sustain the World's Method



Circular Economy Models

Fostering links between water, energy, waste, and food sectors to achieve sustainable social, economic, and environmental objectives.



Empowering women, youth, and refugees

Creating equitable opportunities for marginalized communities through education, skills development, and support.



Climate Action

Mitigating the effects of climate change and promoting environmental sustainability through awareness, policies, and initiatives.



Sustainable education, employment, & entrepreneurship

Fostering long-term economic growth and social development through education and job opportunities that prioritize environmental sustainability.



Rural development

Empowering and uplifting rural communities through green, sustainable practices and initiatives.





Embraces a Zero Carbon Future:

RE100, SBTi, and Topcon Driving Green Transformation





Jinko Solar Co., Ltd. (the "Company", or "Jinko Solar") is a globally renowned and highly innovative solar energy technology enterprise. Adhering to the mission of "Optimize the energy portfolio and take responsibility for enabling a sustainable future", the Company strategically lays out the core links of the photovoltaic industry chain.



RE100: Achieves Green Transformation in Internal Operations

Jinko Solar joined the RE100 initiative in 2019 and released the RE100 roadmap in 2020, with plans to achieve 100% renewable energy use in all plants and global operations by 2028. The energy consumption and carbon emissions in Jinko Solar's business process mainly source from production and operation. The types of energy involved chiefly include purchased electricity, natural gas, etc. To better promote energy conservation and emission reduction, the Company adopts methods such as optimizing energy structure, exploring energy conservation potential, strengthening technological transformation, and conducting energy conservation and emission reduction training. Jinko Solar thus continuously increases the proportion of clean energy and further improve energy utilization efficiency. As of the end of 2022, solar photovoltaic power generation systems of a total of 102.07MW have been built on the roofs of Jinko Solar' plant buildings. In 2022, the rooftop power generation reached 45,401.45MWh, which was consumed internally. In 2022, Jinko Solar has saved approximately 57.54 million kWh of electricity through 95 technological transformation projects such as the introduction of waste heat recovery system and the conversion of air compressor cooling system. It is equivalent to reducing carbon dioxide emissions by approximately 32,800 tons.

SBTi: Assists Supply Chains in Achieving Green Transformation

The Science Based Targets initiative (SBTi) plays a vital role in driving green transformation throughout our supply chain, complementing the internal efforts demonstrated by RE100. Our SBTi journey, initiated in late 2021 with the establishment of ambitious emission reduction targets. We are currently on track and anticipate official verification by SBTi by the conclusion of 2023. These targets, aligned with the long-term objectives of the Paris Agreement, specifically aim to limit the temperature increase to 1.5 ° C above pre-industrial levels. By closely adhering to scientific recommendations, Jinko Solar not only leads but advocates for sustainability throughout our supply chain. Furthermore, our commitment to achieving "net-zero emissions" across the entire value chain by 2050 underscores our unwavering determination to make a substantial contribution to a sustainable future. Emission reduction is gradually integrated into the supplier management system. Jinko Solar focuses on supplier empowerment. The Company builds a supplier capability development system from the dimensions of professional training and experience sharing, promoting supplier environmental self-assessment, and supply chain emission reduction action plans, to work and grow together with suppliers.

In 2022, the Company launched the "Supply Chain Carbon Emission Management Empowerment Plan" to empower partners to promote energy conservation and emission reduction. This plan allows over 200 suppliers to participate in empowerment learning and 55 suppliers to conduct carbon inventory. This is conducive to promoting green and low-carbon transformation of the supply chain and further reducing the carbon footprint of the industrial chain.



Topcon Technology: Facilitates Customer, Community, and Planetary Green Transformation

Jinko Solar is committed to providing clean, safe, affordable, and intelligent photovoltaic power globally through innovating TOPCon photovoltaic technology and reliable photovoltaic products, in order to address global climate change with economic, green, and feasible solutions.

The Company's terminal product is solar photovoltaic modules, and intermediate products in the production process include silicon rods / ingots, silicon wafers, and solar cells. While developing intermediate and terminal products, the Company continues to expand the diversified scale application scenarios of photovoltaic technology. Active layout has been made in BIPV, photovoltaic hydrogen production, energy storage, etc., thereby providing carbon reduction solutions for various industries.



Results & Data Analysis

Jinko Solar joined the RE100 initiative in 2019 and released the RE100 roadmap in 2020, with plans to achieve 100% renewable energy use in all plants and global operations by 2028. Jinko Solar joined SBTi in November 2021, committed to achieving "net zero emissions" of GHG among the value chain by 2050. So far, Jinko Solar has completed the internal planning of emission reduction targets in accordance with the 1.5°C emission reduction path and the requirements of the SBTi Corporate Manual. The relevant data has been submitted to SBTi.

The targets submitted to SBTi are:

Jinko Solar Co., Ltd. commits to reduce absolute Scope 1 and 2 GHG emissions 50.4% by 2032 from a 2022 base year. Jinko Solar Co., Ltd. commits to reduce Scope 3 GHG emissions from purchased silicon, glass, frame, cell, solar EVA, back-sheet, solder strip 58.2% per MW of solar modules, solar cells and silicon wafers produced by 2032 from a 2022 base year. In addition, Jinko Solar is active in participating in various mainstream industry exhibitions and forums, to showcase product strength while boosting industry technology exchange. In 2022, Jinko Solar mainly participated in industry activities such as the 27th United Nations Climate Change conference (COP27), the Group of Twenty Finance Ministries and Central Bank Governors (G20), and the G20 Finance Minister and Central Bank Governor Climate Transformation and Sustainable Financing Seminar (as the only representative of the photovoltaic industry). Together with domestic and foreign practitioners, the Company probed in cooperation and development strategies for the photovoltaic industry.





Jinko Solar's Participation in Industry Organizations (Examples)		
Organization	Jinko Solar's Role	
the Executive Committee of the Asian Photovoltaic Industry Association	Executive Director	
the China Photovoltaic Industry Association	Vice Chairman	
the China New Energy Chamber of Commerce(CNECC)	Executive Director	
the Chinese Renewable Energy Industries Association (CREIA) of the China Association of Circular Economy	Member	
the International Chamber of Commerce	Director	
the Global Solar Council	Member	
the Solar Power EU	Member	
the Clean Energy Council	Member	



In conclusion, JinkoSolar, as a global leader in innovative solar energy technology, stands at the forefront of sustainable energy solutions. With a steadfast commitment to optimizing energy portfolios and championing a sustainable future, the company has strategically positioned itself in the core segments of the photovoltaic industry chain.



References

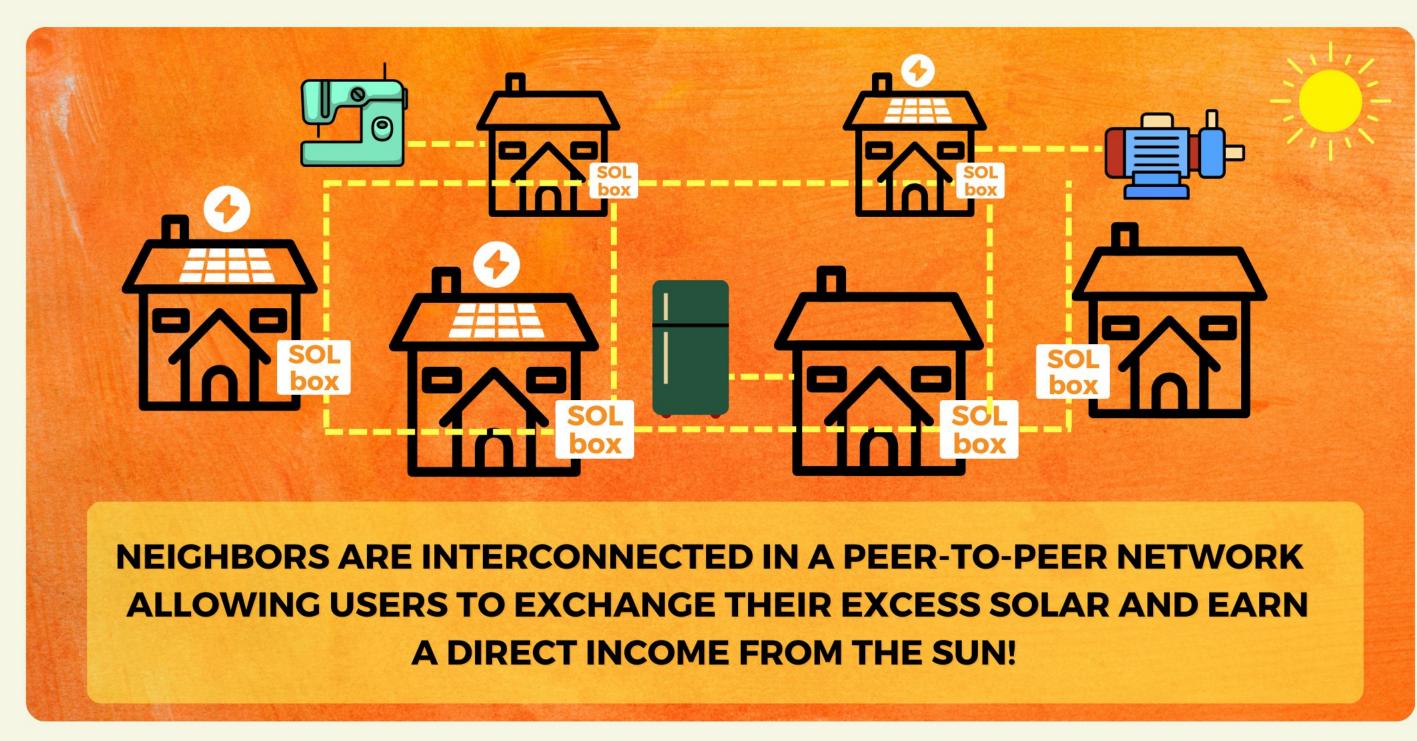
Lee, M., Lee, P., Jeong, D., Han, M. and Jung, S.P., 2023. RE100 for 100% Renewable Electricity: Status and Prospects. J. Korean Soc. Environ. Eng, 45(3), pp.161-169. Moreno, P., 2023. SBTi CORPORATE NET-ZERO STANDARD CRITERIA.

Zeng, Y., Tong, H., Quan, C., Cai, L., Yang, Z., Chen, K., Yuan, Z., Wu, C.H., Yan, B., Gao, P. and Ye, J., 2017. Theoretical exploration towards high-efficiency tunnel oxide passivated carrier-selective contacts (TOPCon) solar cells. Solar Energy, 155, pp.654-660.

CREATE A NETWORK. SHARE ELECTRICITY, BRIGHTEN THE FUTURE

SOLGRID

PEER-TO-PEER SOLAR MICROGRIDS POINT OF COMMON COUPLING (PCC)

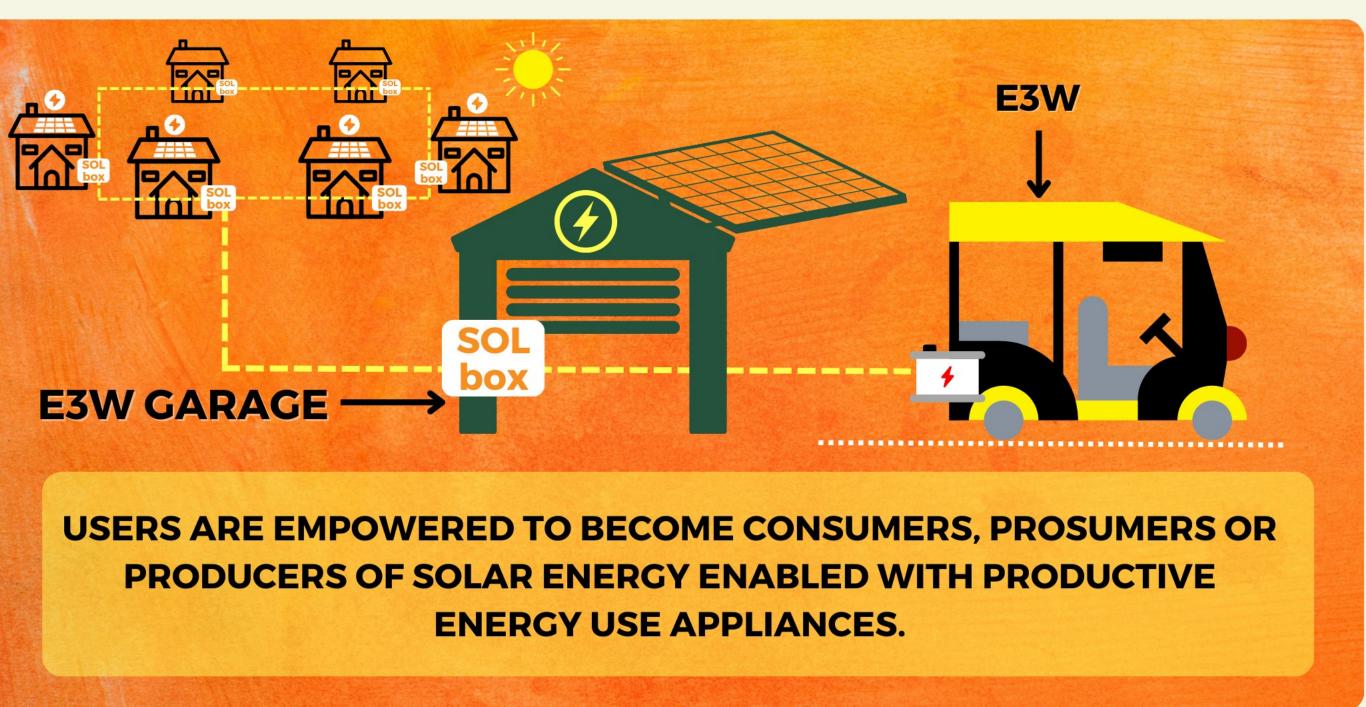


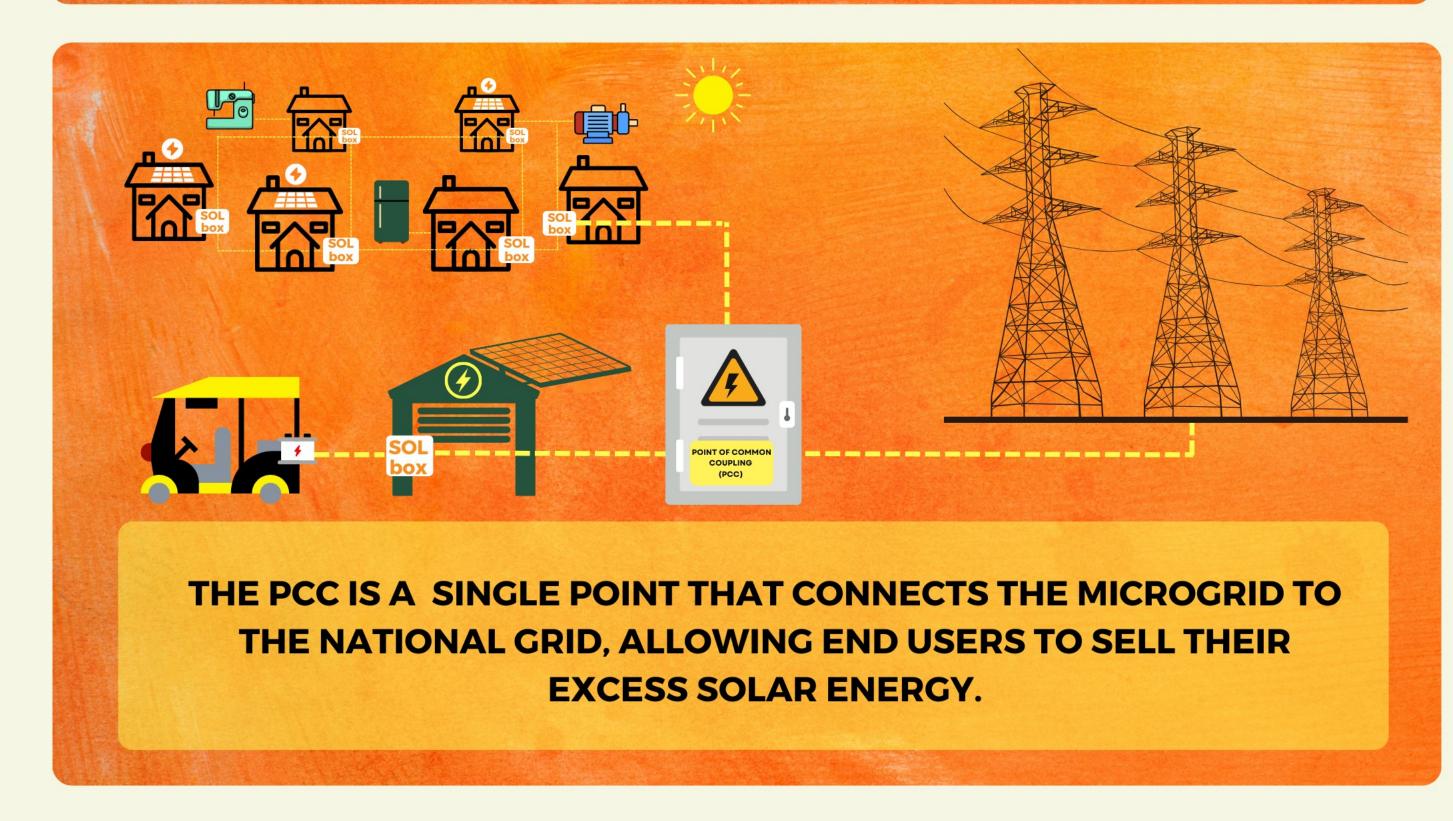
118 **MICROGRIDS**

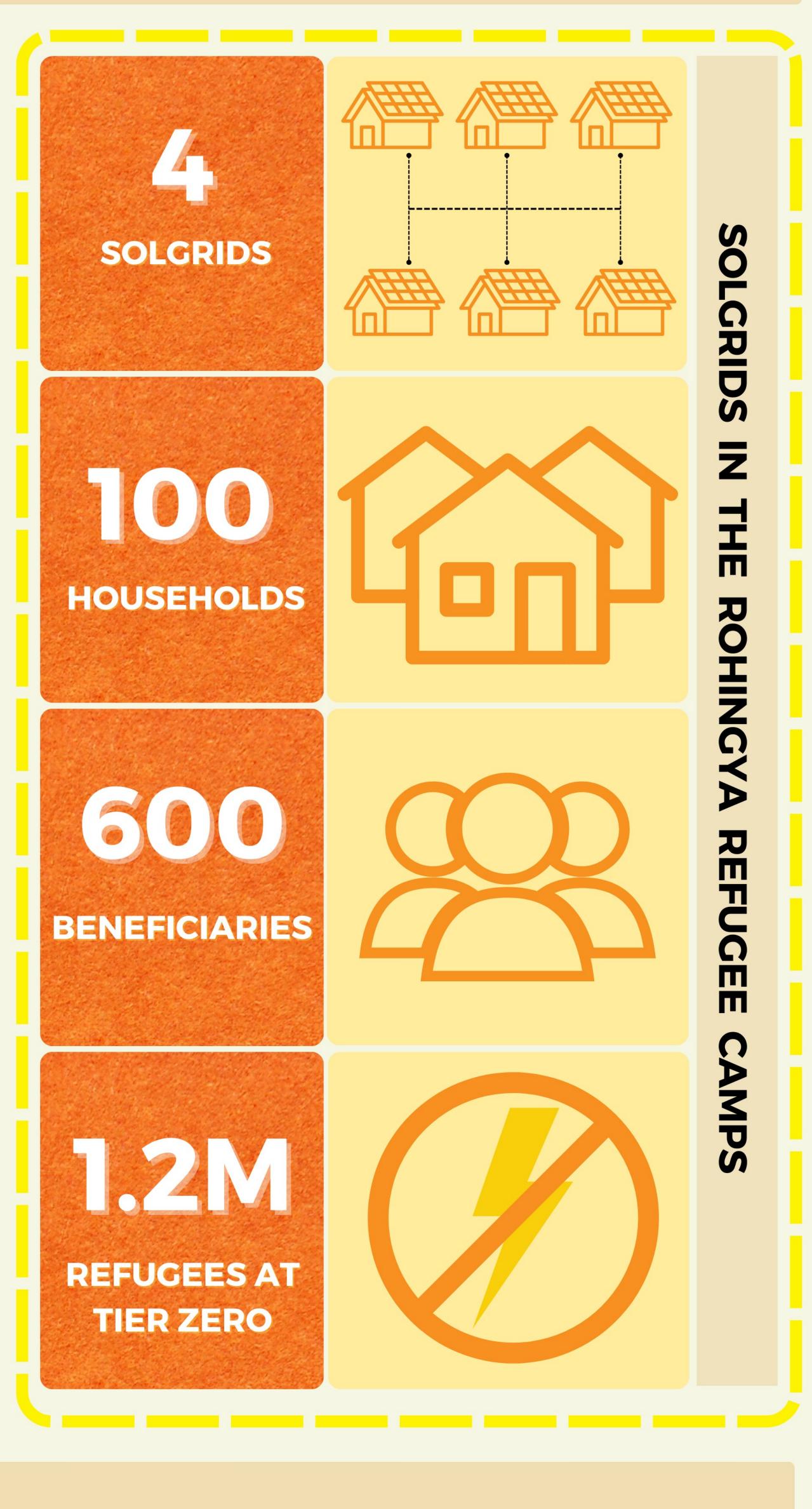
3,500

HOUSEHOLDS & MICROBUSINESSES

22K+ **BENEFICIARIES**

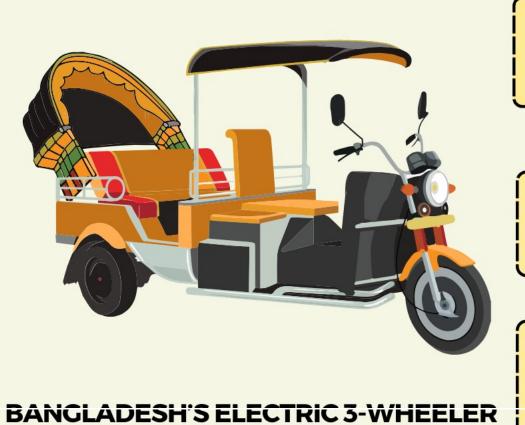






SOLMOBILITY

SMART STORAGE TECH FOR E3WS VIRTUAL POWER PLANTS (VPP)

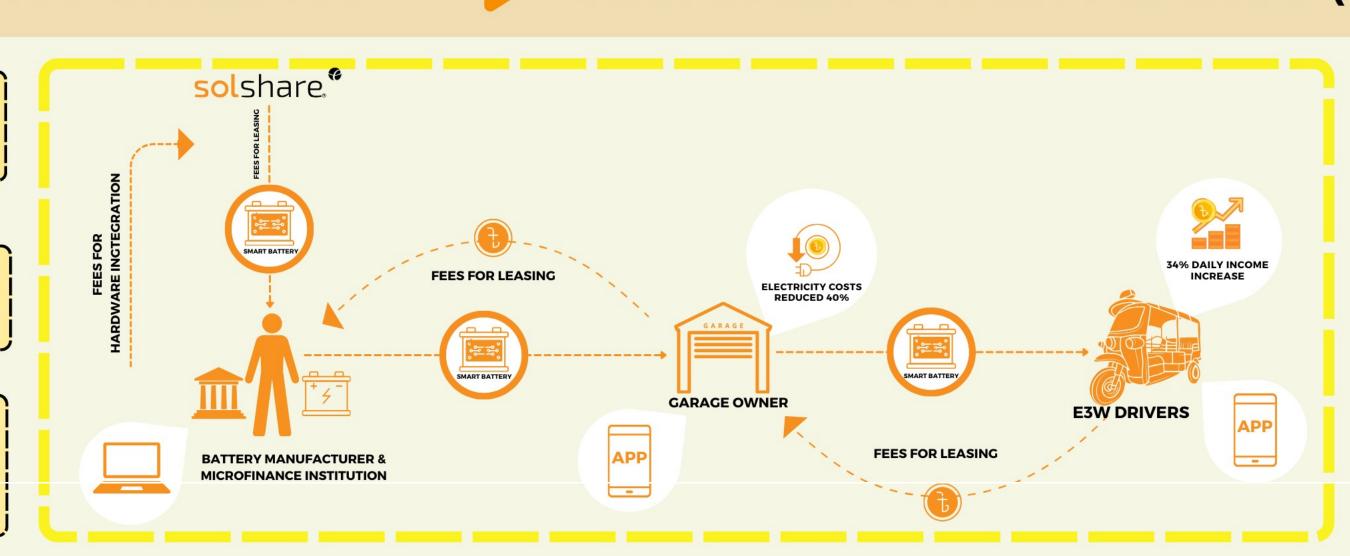


(E3W) VEHICLES

REMOTE CONTROL BATTERY FOR **ASSET-BACKED FINANCING MODELS**

FLEXIBLE STORAGE TECHNOLOGY FOR A VIRTUAL POWER PLANT

TRADITIONAL TOXIC LEAD ACID BATTERIES SWAPPED WITH SMART, **PAYG LITHIUM ION BATTERIES**



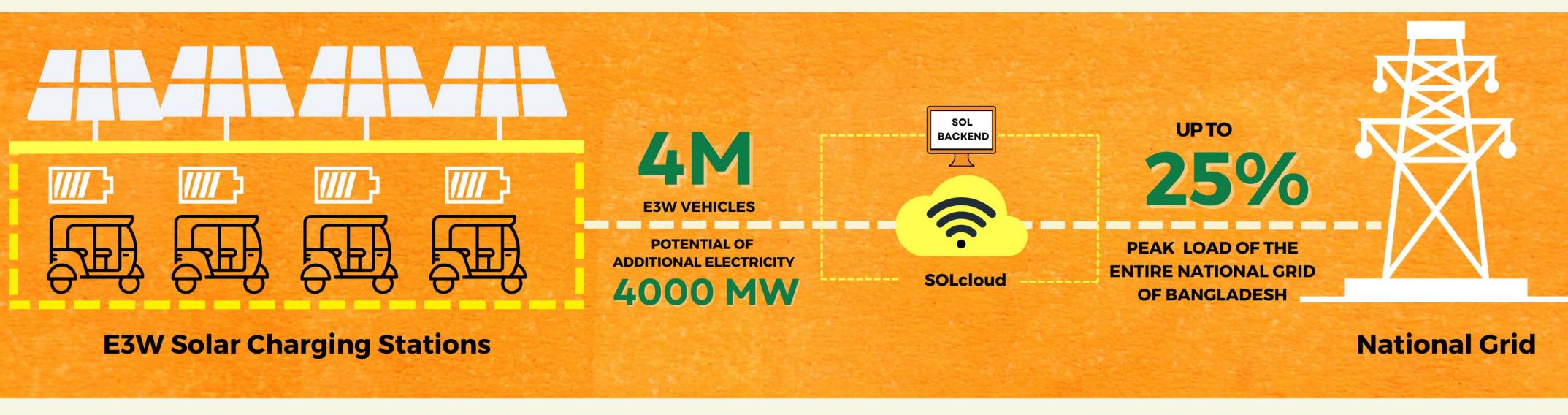
350K+

KMS DRIVEN USING SOLMOBILITY

REDUCTION IN ENERGY CONSUMPTION

100K+ KGS OF CO₂ EMISSION

REDUCED























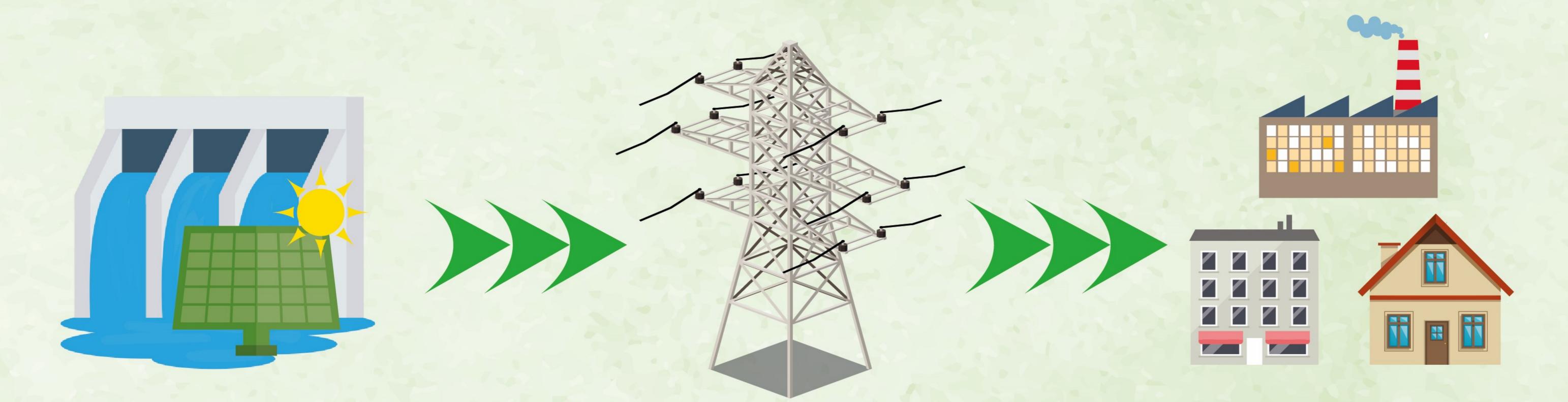


Malaysia aspiration to achieve net-zero greenhouse gas (GHG) emissions as early as 2050

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