



A Trusted Renewable Energy Credits Marketplace

The first cross-border RECs Trading platform
that is enabled by Blockchain and A.I.





Company Introduction

What do we do?

T-RECs.ai aims to provide a end-to-end turnkey solution to corporations and individuals who has commitment to be 100% renewable. We offer the following essential services to achieve that goal in our platform



A marketplace for buyers and sellers of renewable energy (RECs)

- Sellers post their available RECs for sale
- Buyers shops for their desired RECs and make their purchase

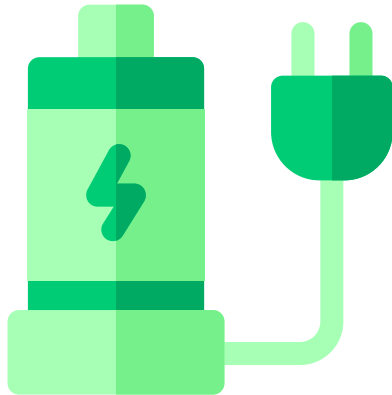


A transactional platform to process the entire RECs transaction

- Registration – Verification and Registration of RECs certificates
- Tracking – Energy generation tracking to ensure transparency
- Retirement – The eventual claims to be 100% renewable

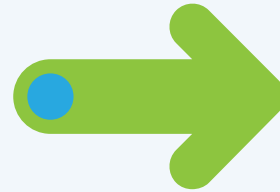
Climate change is a big issue- but how can we do our part?

Before



CO2
Generator

Purchase brown electricity from the National Power Grid which is powered by fossil-based power plants



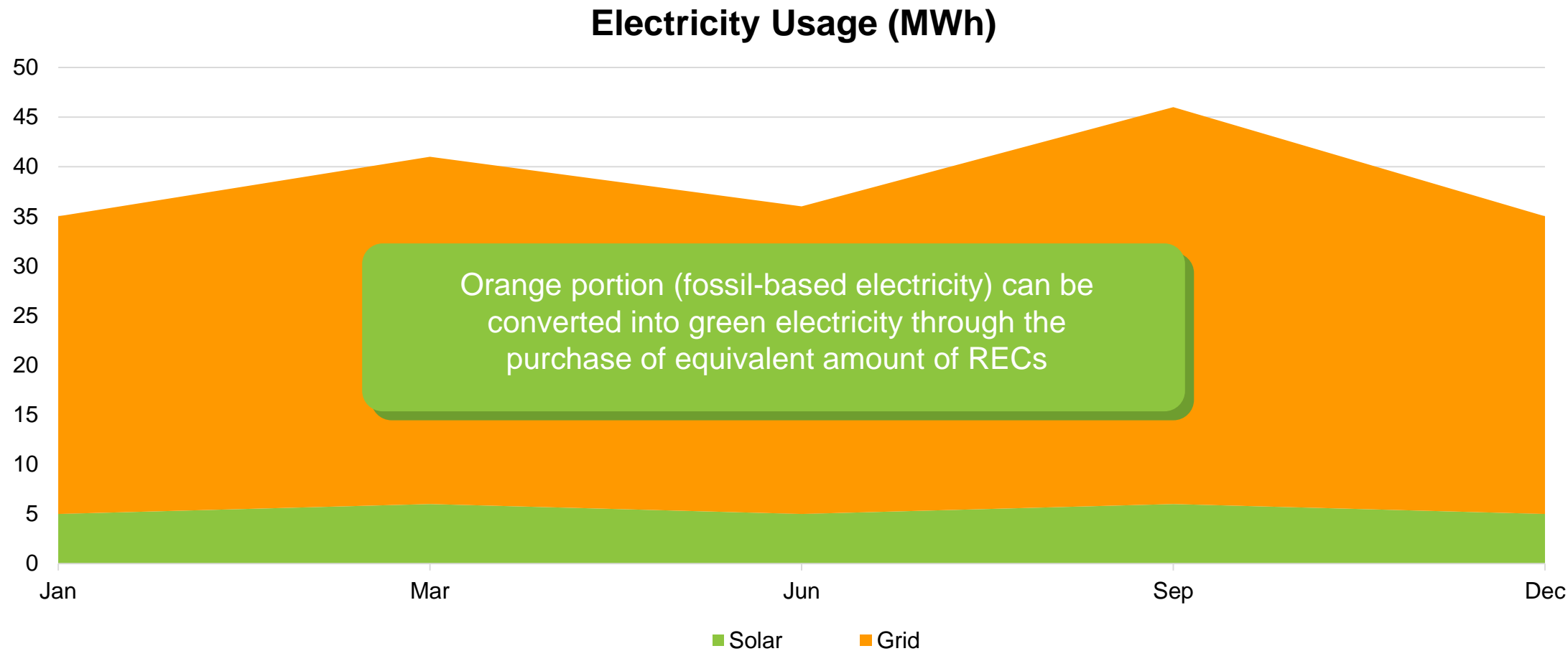
After



100%
Green

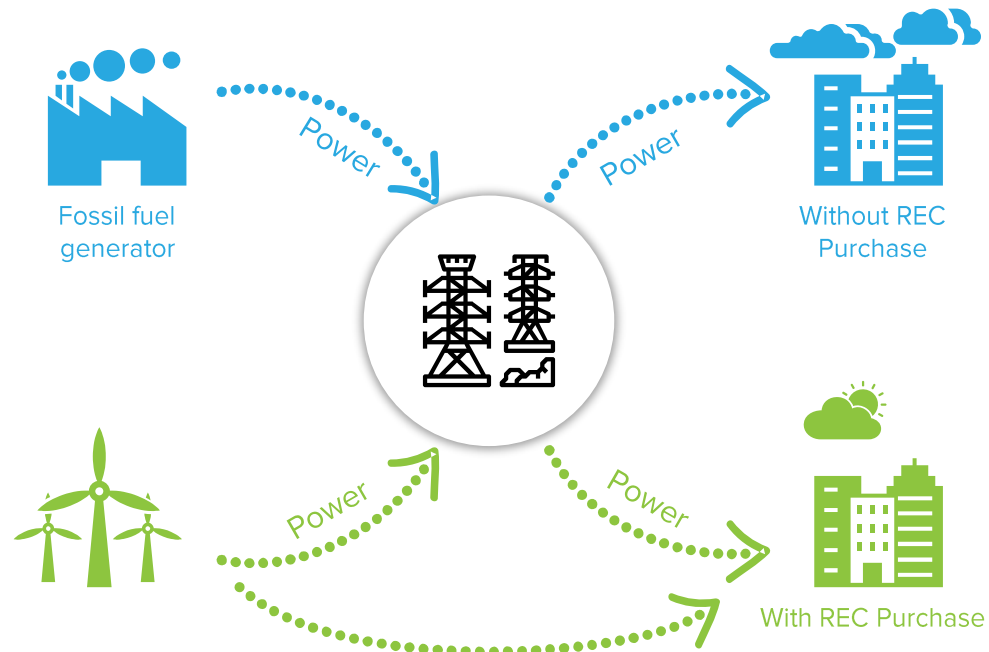
Install solar system on your own rooftop use and start using your self-generated green electricity

What if my usage way exceeds my solar generation ?



Purchase RECs as an alternative against physically consuming renewable electricity

What is a Renewable Energy Credit (REC)?



Owning RECs achieves the same result as being on carbon-neutral without having to physically consume renewable electricity



Like traditional coal and gas-fired power plants, renewable power plants (Solar, Wind, Hydro) send their power to the same electric grid



When you buy power from the grid, you are buying mixed power (green and brown)



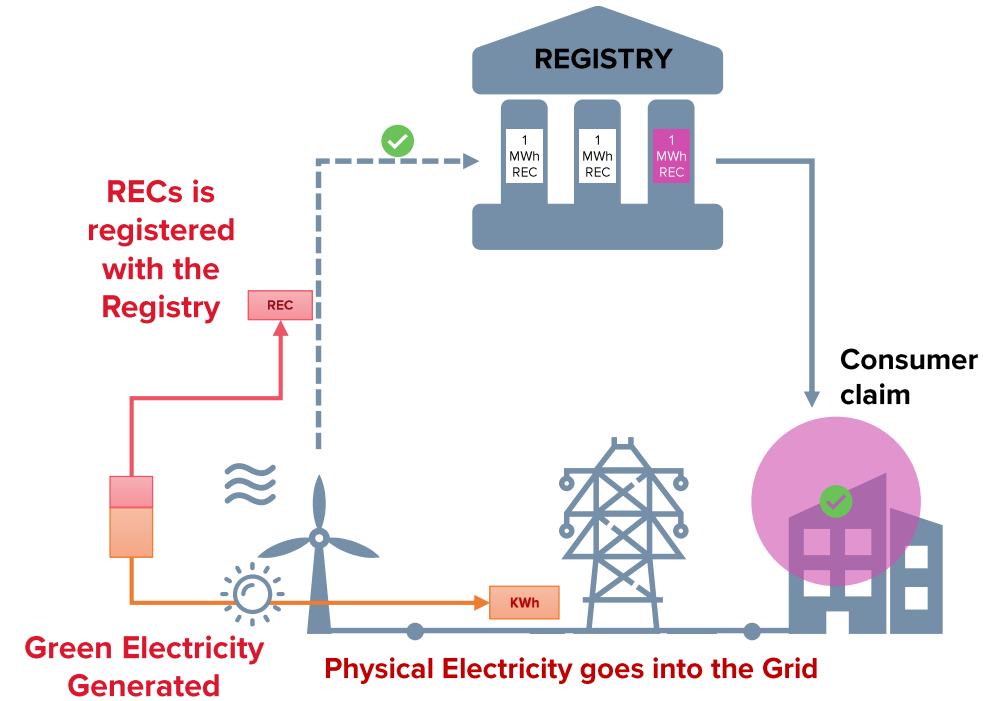
Buying RECs allows you to notionally segregate that power, such that you are buying green power



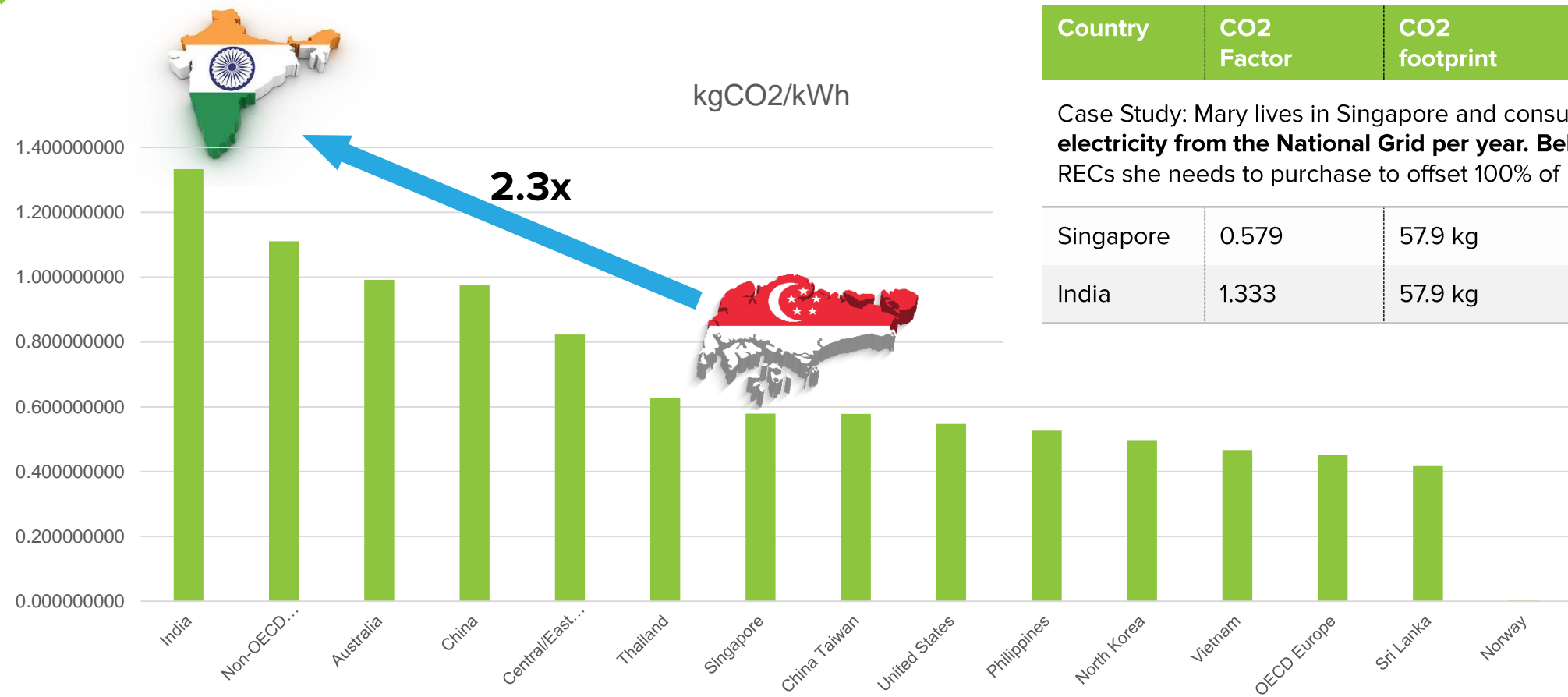
Each REC is independently tracked and verified

How does RECs work ?

Purchasing each unit of REC is as if you have offset a similar unit of dirty (non-renewable) energy that you have consumed



Local RECs vs Cross Border RECs



Country	CO2 Factor	CO2 footprint	RECs to buy
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Case Study: Mary lives in Singapore and consumes 10MWh of **electricity from the National Grid per year**. Below shows the RECs she needs to purchase to offset 100% of her CO2 footprint

Singapore	0.579	57.9 kg	10.00
India	1.333	57.9 kg	4.34

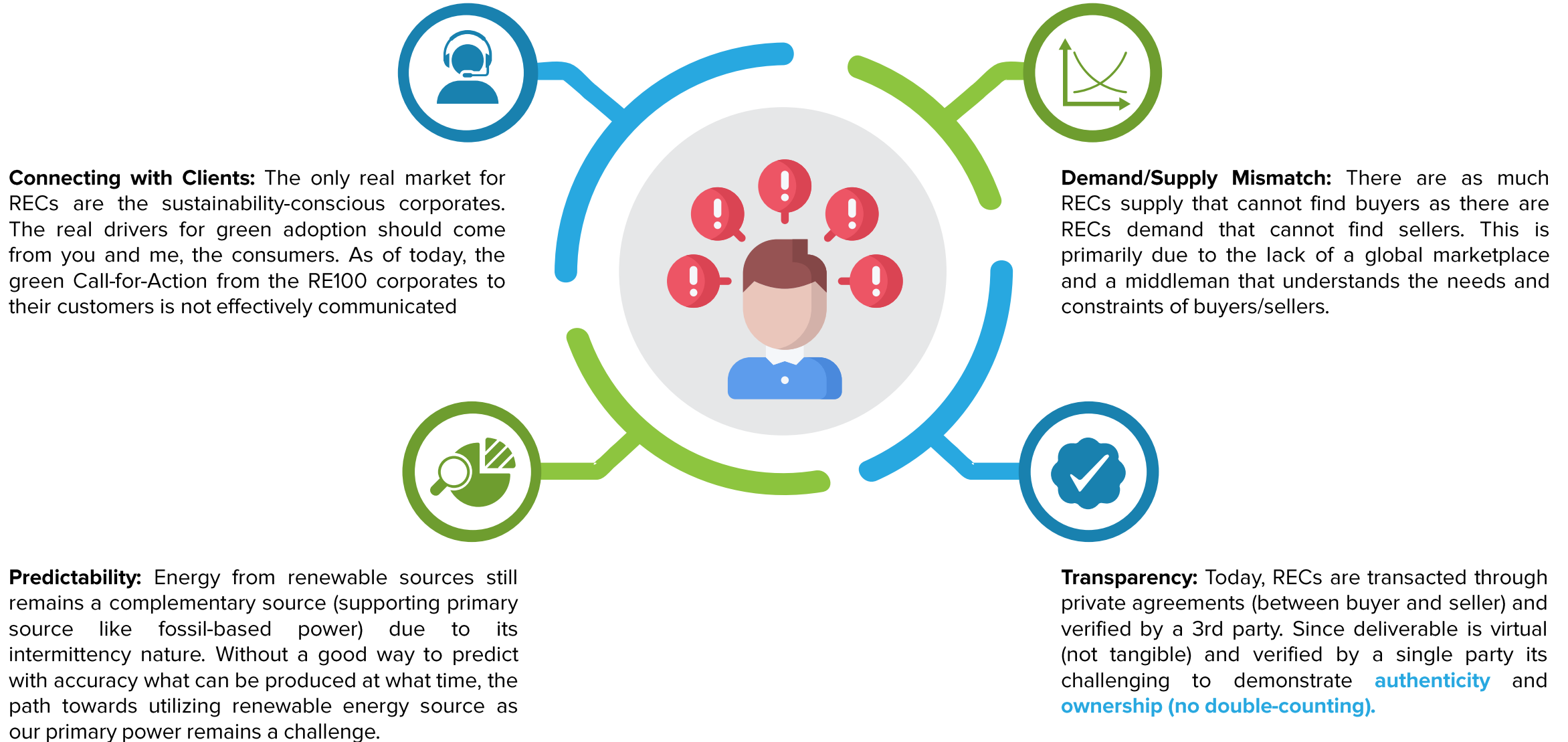


T-RECs.ai platform enables buyers and sellers from different countries to execute the RECs transactions seamlessly



A client in Singapore can opt to purchase a REC that is produced in India since the same REC offsets more CO2 (2.3x) in India than in Singapore

Problems of the current RECs marketplace





Our Differentiators

Addressing RECs market mismatch – T-RECs.ai creates a global marketplace for RECs

- T-RECs.ai is a marketplace that hosts global renewables generators with available RECs for sale
- We also enable Developers/IPP's to source for potential RECs buyers so that they can get their projects off the ground (RECs revenue streams helps boost IRR)
- RECs buyers can source for projects to suit their additionality requirements



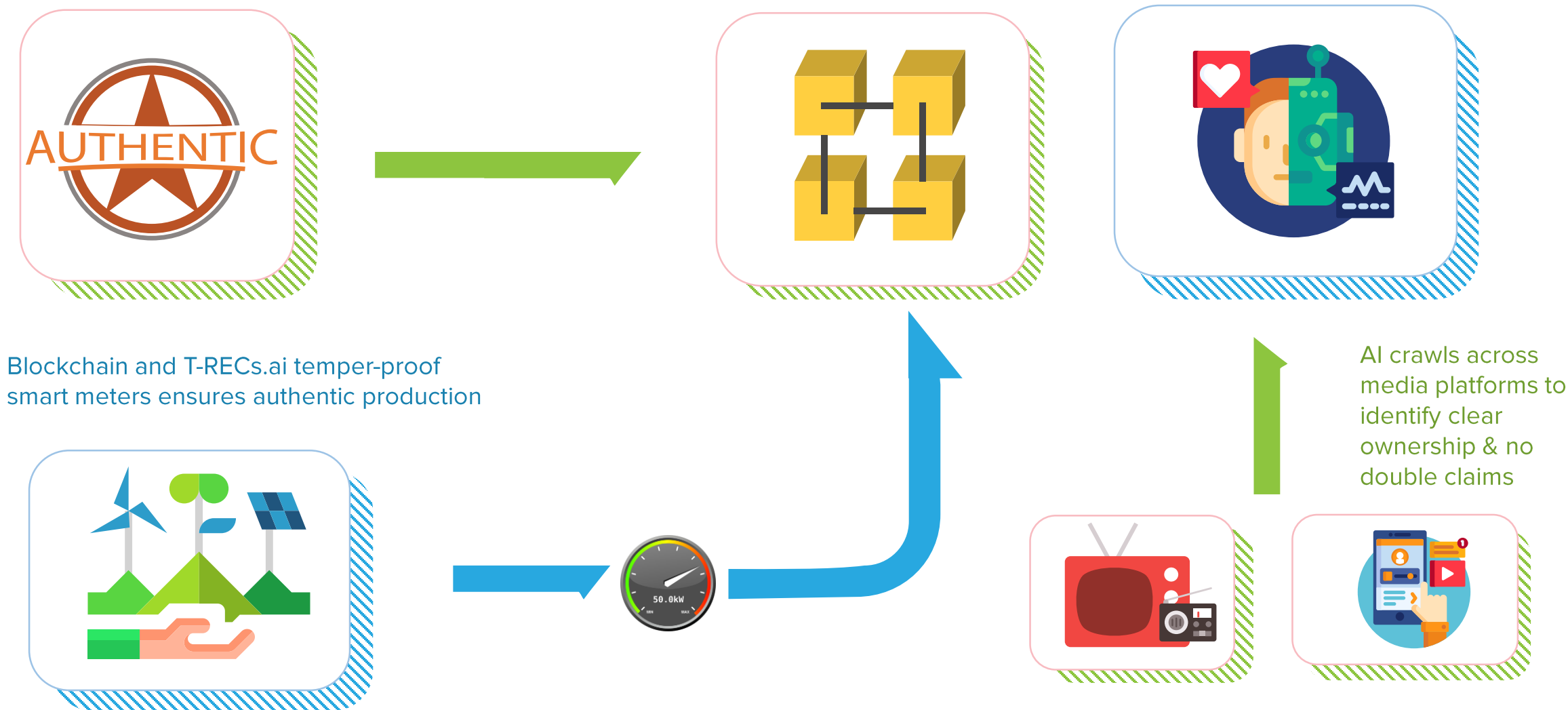
RECs Certification with Green-E – Meeting the RE100 standard

1. RECs certification is critical towards fulfilling the requirements of RE100
2. Our Platform utilizes the **Green-E certification program**
3. However, to further enhance the authenticity of the RECs and to ensure the elimination of double-counting, we have incorporated the BlockChain and A.I. Technology to our tracking system

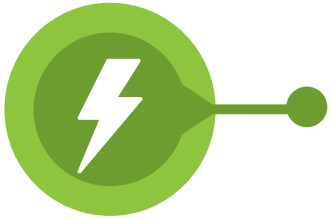
Green-e is the global leading independent consumer protection program for the sale of renewable energy and greenhouse gas reductions in the retail market. **Green-e** offers certification and verification of renewable energy and greenhouse gas mitigation products.



BlockChain and A.I. offers transparency for RECs transactions



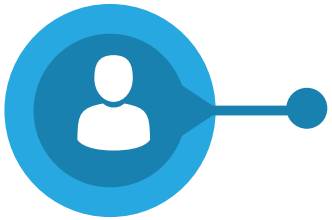
Building a community of green believers – The Green Pledge



T-RECs.ai believes in engaging beyond the big electricity user corporations to reach out to the consumers

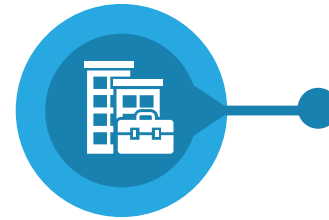


A strong community of green individual believers to be built on T-RECs.ai platform, and the clear impact of the pledge can be seen through the realization of new renewable projects (through the purchase of RECs)



We want individuals to pledge to be green – T-RECs.ai will encourage and reward all green ambassadors

- A forum page for members to post their own and share others sustainability acts
- Deploy our AI bots to crawl members social media postings to identify sustainability acts



Green corporations (Apple, Google, Facebook etc) who are T-RECs.ai corporate buyers can tap on this community to drive the green message. We encourage big corporations to leverage on our platform to influence the public to sign up the T-RECs.ai Green Pledge

Addressing intermittency of Renewables

Renewables has an intrinsic problem of intermittency. You can never have certainty on when you can have your desired amount of electricity at any point in time



With renewable generators from different parts of the world, the platform will be able to offer a RECs portfolio that matches the buyer's load profile

One of our AI bots will also be able to provide predictive analysis on the RECs generation and thereby adjusting the allocation to meet the buyers needs



RE100

What is RE100 ?

1. RE100 is a collaborative, global initiative uniting more than 100 influential businesses committed to 100% renewable electricity, working to massively increase demand for - and delivery of - renewable energy.
2. RE100 is brought to you by The Climate Group in partnership with CDP. Both organizations are part of the We Mean Business coalition, working with leading businesses around the world.
3. RE100 shares the compelling business case for renewables, such as greater control over energy costs, increased competitiveness, and delivery on emissions goals. We also showcase business action on renewables and encourage supplier engagement, while working to address barriers that will enable many more companies to reap the benefits of going 100% renewable.
4. Companies joining RE100 set a public goal to source 100% of their global electricity consumption from renewable sources by a specified year. They disclose their electricity data annually, and RE100 reports on their progress.

Requirements of RE100 companies

Companies joining RE100 make a global, public commitment to **100% renewable electricity**.

To achieve this goal, they must match 100% of the electricity used across their global operations with electricity produced from renewable sources – biomass (including biogas), geothermal, solar, water and wind – either sourced from the market or self-produced.

RE100 companies can achieve 100% renewable electricity through:

- **Production of renewable electricity** from their own facilities. These can be grid-connected and onsite or offsite, or entirely off the grid. A company may consume its own renewable electricity or decide to make production-only claims.
- **Purchased renewable electricity** sourced from generators and suppliers in the market. This includes direct purchases from specific generators (e.g. power purchase agreements), which can be located onsite or offsite. It also includes retail purchases from suppliers and utilities, and the purchase of stand-alone (“unbundled”) energy attribute certificates (also commonly known as RECs).

RE100 Companies



Global companies are making strides in their commitment towards renewables



154 RE100 companies have made a commitment to go '100% renewable'



Most of them adopted the strategy of purchasing RECs to meet their 100% renewable goal



The IKEA Group is a home furnishing company with 336 stores in 28 countries. The company has committed to produce as much renewable energy as the total energy it consumes in its buildings by 2020. Alongside Swiss Re, IKEA Group is a founding partner of the RE100 campaign.



Apple leads the world in innovation with iPhone, iPad, Mac, Apple Watch and Apple TV. In April 2018, Apple achieved 100% renewable electricity powering its global facilities across 43 countries. Apple is also helping its manufacturing partners lower their carbon footprint, working with them to install more than 4 gigawatts of new clean energy worldwide by 2020.



Coca-Cola European Partners manufacture, market and distribute Coca-Cola products in Western Europe. The company has committed to power all of its operations with 100% renewable electricity by 2020.



Citi is the leading global bank, with approximately 200 million customer accounts and business in more than 160 countries, and a mission to responsibly provide financial services that enable growth and economic progress. The bank has set a target to go 100% renewable by 2020.



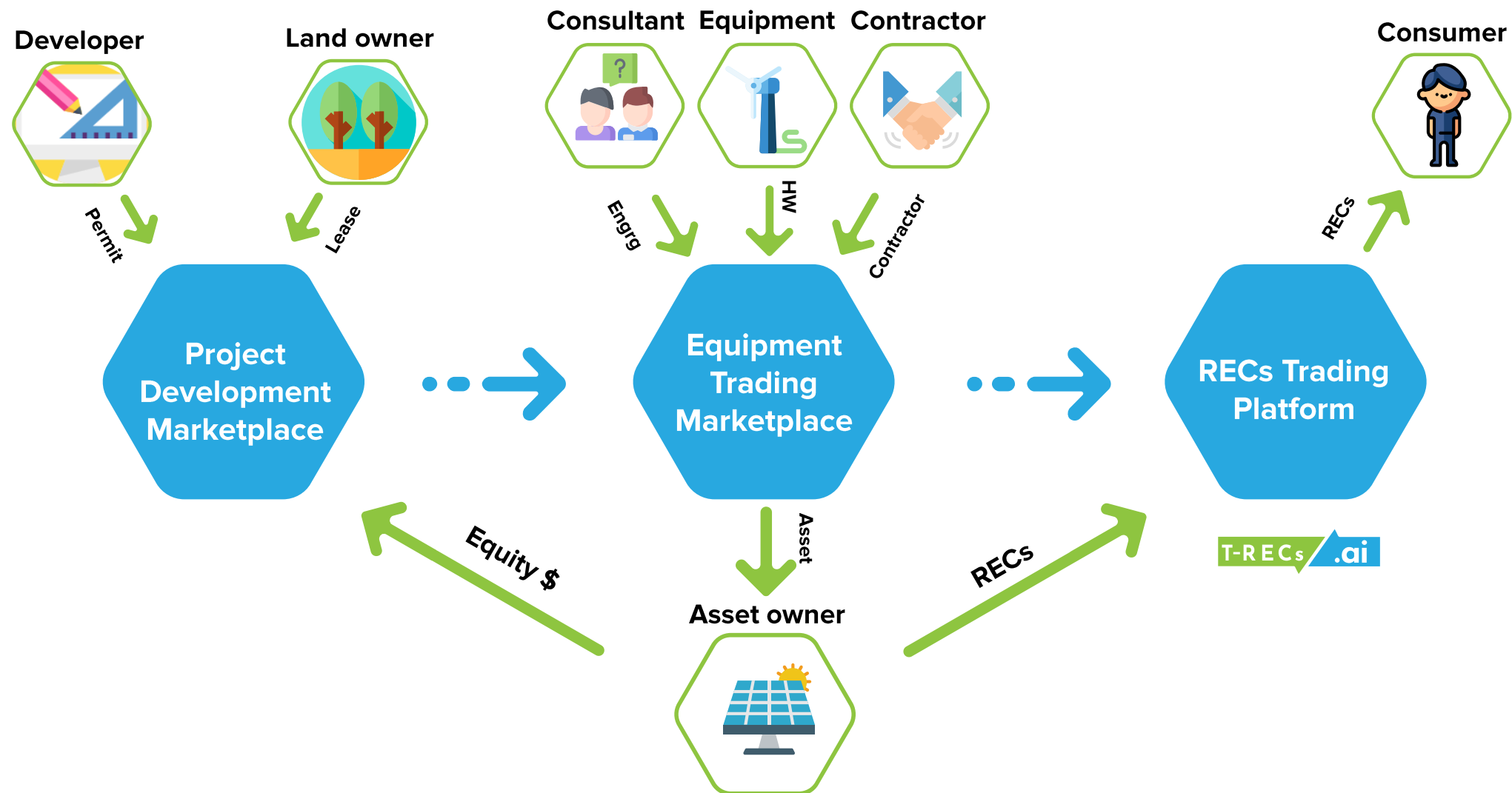
Growth Plans

T-RECs.ai Growth Strategy – The Renewable Energy Ecosystem

- Phase 1
 - RECs Trading platform Go Live
 - Build up green community (Sellers and Buyers of renewable electricity)
- Phase 2
 - Renewable Project platform Go Live
 - Leverage on the community built up in Phase 1 to build another ecosystem
 - Project Developers, Equity Investors, Land/Roof Owners, Debt Financier
- Phase 3
 - Upstream equipment supply platform Go Live
 - Leverage on the community built up in Phase 2 to build the 3rd ecosystem for project construction
 - Equipment makers (solar panels, wind turbines, inverters, structures)
 - Contractors (M&E subcontractors, System Designers, Consultants)

Building a marketplace to cut off the middleman, bringing value to the entire renewable energy ecosystem, ensuring Best Quality at Lowest Cost

The Renewable Energy Ecosystem



A photograph of two men in business suits sitting at a desk in a modern office. They are both smiling and looking at a tablet computer. The man on the left is wearing glasses and a striped tie. The man on the right is holding a pen. On the desk, there is a laptop, a glass of water, and some papers with charts. A large window in the background shows a cityscape. A semi-transparent dark blue banner is overlaid across the middle of the image, with the text 'Thank You' in white.

Thank You