Team #70

AInergize

A solution to optimize current systems and support a transition towards renewable energy.

Meet the Team

Ashutosh Verma

Ashutosh is a 3rd-year undergraduate student studying International Business and Economics at The University of British Columbia

Adeoluwa Adegboye

Adeolu is a 4th year undergraduate student studying computer science at Covenant University, Niheria.

Becca Zhu

Becca is a 1st-year graduate student studying Public Administration and Social Innovation at the University of Southern California.

Renewable energy in 2021 saw the fastest-year-on-year growth since the 1970s.

Policy deadlines have accelerated the development of renewable energy infrastructure.

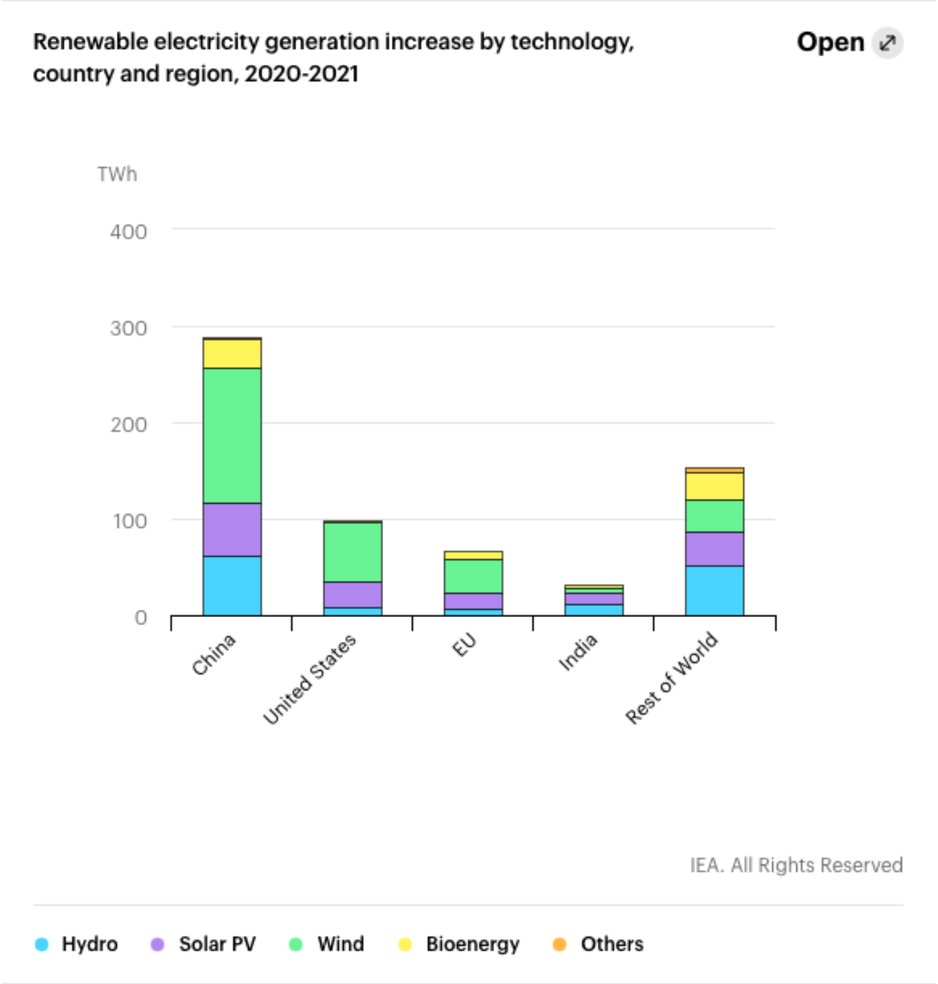
(IEA, 2021)

Renewable Energy Trends

Renewable electricity generation in 2021 was set to expand by more than 8% to reach 8 300 TWh

Global and solar wind generation was expected to increase by at least 17%

China and India's renewable energy sectors are growing rapidly and account for more than half of the year's increase



(IEA, 2021)

Meet Lalita

A single mother of 4 who runs a local dairy

The previous summer was brutal. With frequent power outages, her dairy shop could barely hold any refrigerated goods. She worries that she may have to start searching for odd jobs if she is to pay for her children's education.

But most of all, she fears that the lack of stable energy will disrupt her cooking and force her children into a season of hunger.

$150 Billion

The annual cost of power outages in the US

$2.5 Billion

The per-hour cost of power outages for large companies

570 Million

The number of people with *zero* access to energy sources in the developing world

Our Solution

We aim to address energy efficiency by increasing the transparency of activity in neighboring grids with real-time data and allowing partners to trade excess renewable energy through a block-chain enabled platform.

How it works

View real-time data

Access real-time energy supply and demand data of neighboring grids.

AI powered Insights

View insights on how to improve energy efficiency and better energy management.

A blockchain trading platform

Buy and sell excess energy at affordable prices.

https://htg70.my.canva.site/

Sign up

Real-time data and energy offers are just a few clicks away.

Name of Organization

Password

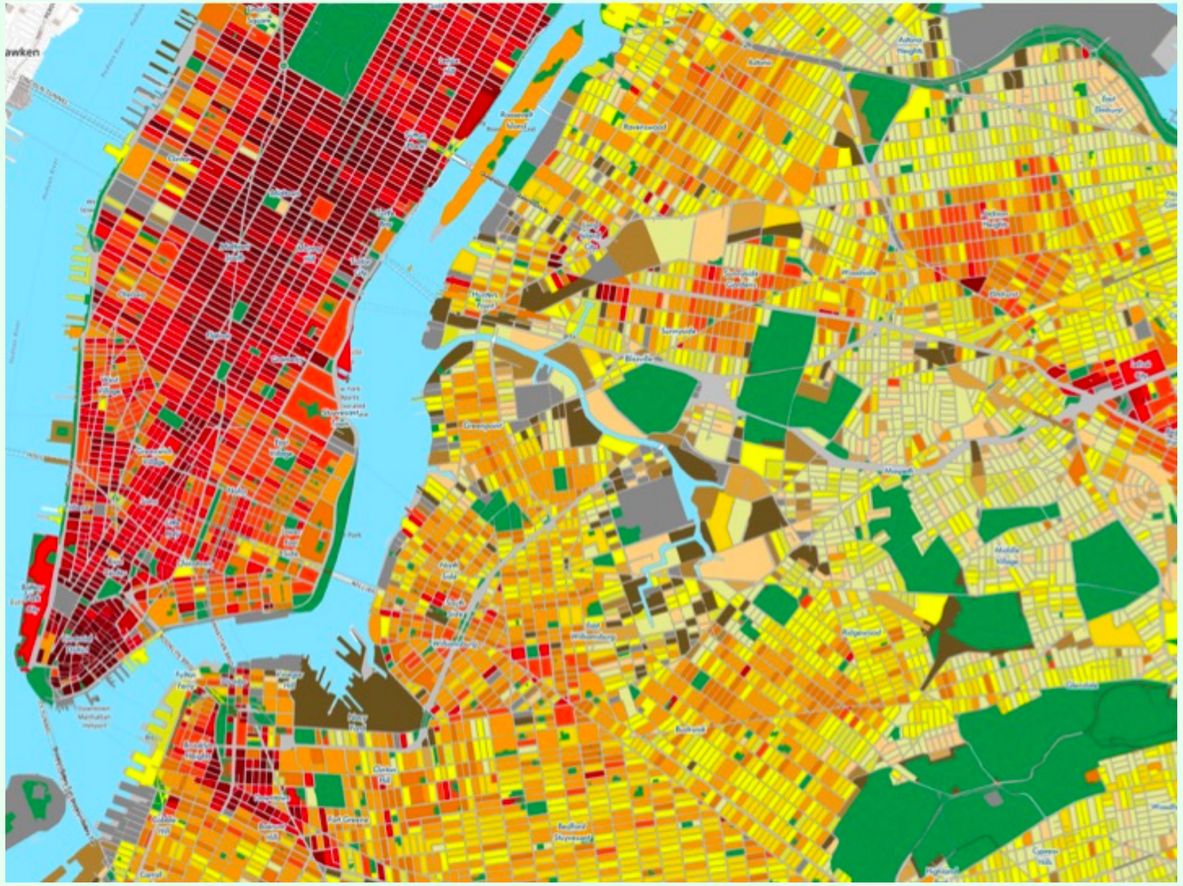
Type of Organization

Confirm Password

BECOME A PARTNER TODAY

CONTINUE

Partner Dashbaord



Impact

Efficiency

Greater transparency of neighboring grids would allow our partners to better match the supply and demand of energy/

Reliability

Our platform and AI-powered insights will help alleviate transmission congestion and thus increase grid reliability.

Affordability

Our solution will search all available offers of energy to find the most affordable price and save costs associated with energy storage.

Stage 1

Research & Development for back-end product design and UI/UX

Stage 2

User test runs for verifying data and quality assurance

Stage 3

Establish partnerships with utility companies, collect data on energy usage patterns, use AI to optimize processes

Stage 4

Market testing of our product followed by continuous R&D on backend design

Stage 5

Scale-up from a B2B to a B2C solution allowing for increased revenue generation

Stage 6

Shift from energy consumers to energy prosumers!

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Please let us know what
questions you have.

Thank you
for your time!

References

- https://www.iea.org/data-and-statistics/data-product/energy-efficiency-indicators-highlights#
- https://www.iea.org/reports/global-energy-review-2021/renewables
- https://www.youtube.com/watch?v=xhxo2oXRiio&t=4s
- https://foreignpolicy.com/2021/02/10/is-germany-making-too-much-renewable-energy/
- https://www.degruyter.com/document/doi/10.1515/rmeef-2020-0011/html?lang=en
- https://cri-world.com/publications/qed_dp_4523.pdf
- https://www.sciencedirect.com/science/article/pii/S014098832030222X
- https://www.vox.com/energy-and-environment/2019/6/18/18681591/renewable-energy-china-solar-pv-jobs
- Assessing the Costs of Major Power Outages (lbl.gov)
- https://www.bcg.com/publications/2021/maximizing-value-from-scale-renewable-energy
- Assessing the Costs of Major Power Outages (bloomenergy.com)
- India wastes 15-20% of its renewable energy due to lack of storage: Panasonic Energy head - The Hindu