

NEW ENERGY NEXUS Thailand

IMPACT REPORT
2022



ABOUT NEW ENERGY NEXUS

New Energy Nexus is the world's leading clean energy ecosystem builder. We provide funding, accelerators, and training to help diverse entrepreneurs build a 100% clean energy future, from emerging tech through to clean energy adoption and distribution.

Our Vision

An abundant world with 100% clean energy for 100% of the population, in the shortest time possible.

Our Mission

To support diverse entrepreneurs to drive innovation and build equity into the global clean energy economy.

Our Goal

To reach 100,000 entrepreneurs by 2030.

Our Impact



Tackling climate change



Building an equitable clean energy economy



Increasing energy access



Creating green jobs



Connecting innovation ecosystems

2022 IMPACT IN NUMBERS

THAILAND

Entrepreneur Data



147

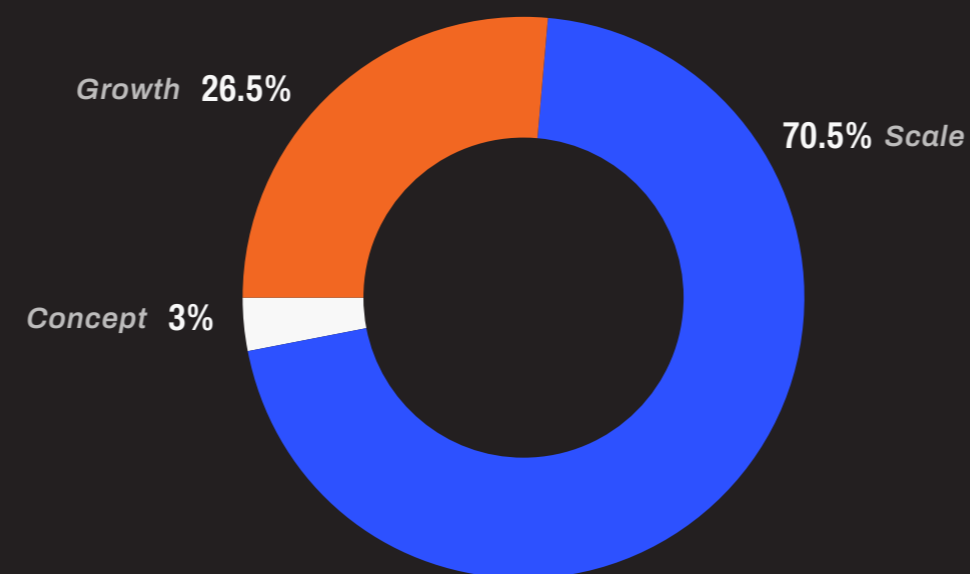
Entrepreneurs supported



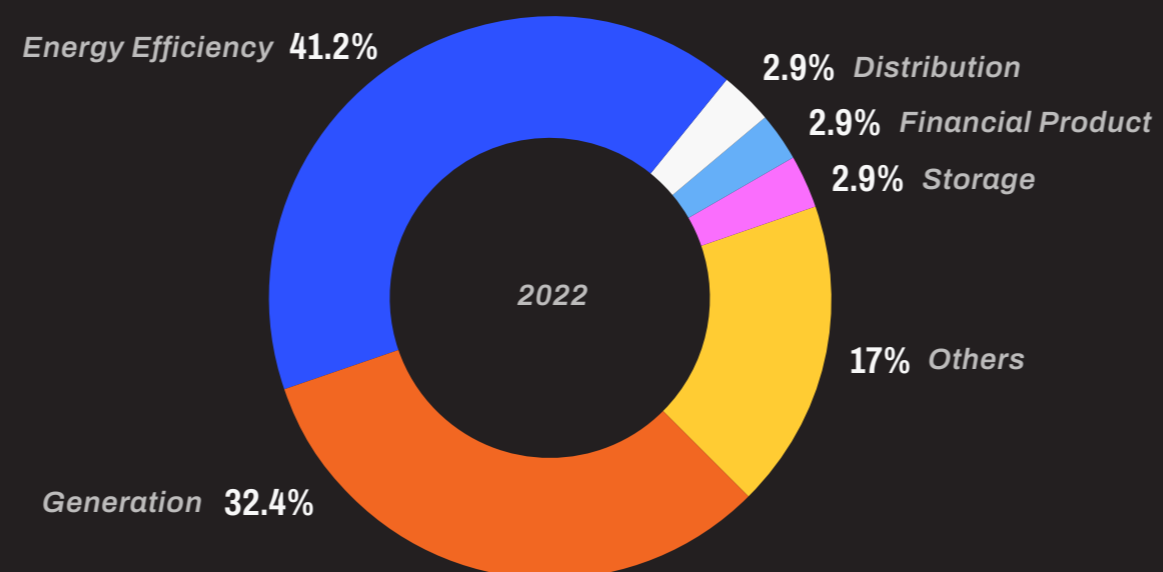
26

Women entrepreneurs

Startups by stages



Startups by sector



Startup Data



34

Portfolio startups

(Number of startups supported through incubator, accelerator, scale or funding programs)

Ecosystem Data



28

Strategic partners engaged



8

Stakeholder events hosted/co-hosted



525

Participants in ecosystem support programs and events



Q&A WITH STANLEY NG

Program Director at
New Energy Nexus Southeast Asia



What are your major achievements of 2022?

One of our biggest achievements was reigniting the climate change and entrepreneur community in Thailand after the pandemic, and launching a large scale program in collaboration with the private sector. After a long freeze, we gathered relevant stakeholders supporting the climate agenda and directly supported eight climate tech startups in a high-touch program called Decarbonize Thailand Sandbox (DTS). Additionally, we expanded our reach to rural areas and communities to train and share know-how on solar technology and entrepreneurship.

What unique role does New Energy Nexus play in Thailand?

New Energy Nexus is a unique player in Thailand's ecosystem. We operate on a local level, understanding the local context and pain points. Our message and mindset to each partner is to turn challenges and pain points into opportunities, where startup solutions can be applied or new innovations generated. We are able to adapt and personalize our support, while leveraging innovations, startups, and

technical knowledge from across the global New Energy Nexus network. Our outreach and program design strongly applies inclusivity especially of underrepresented communities and groups.

What are you most excited about for 2023?

We plan on growing considerably in 2023. A key challenge and priority will be streamlining our communication and engagement with our audience and partners to expose them to our work and mission.

The majority of infrastructure and business activity in Thailand is centralized around Bangkok and its surrounding area. To support startups and potential entrepreneurs the Thailand team will focus on including underrepresented communities outside of Bangkok especially through our Solar Step program.



WHAT WE DO

New Energy Nexus Thailand was initially developed in partnership with GIZ Thailand, Germany's federal international cooperation agency in 2016. Since then, we have leveraged our global network and partnerships with universities, corporations and government bodies to build a clean energy startup ecosystem from the ground up. Our first startup acceleration program started in 2020 and followed by three climate innovator bootcamps to support young entrepreneurs at ideation stage in the same year.

Decarbonize Thailand Sandbox

This year we launched the Decarbonize Thailand Sandbox (DTS) program - a program for selected startups to pair with corporate partners including B.GRIMM, CP Group, IRPC, PTT and ad True Corporation over a 3-months sandbox period. Startups receive guidance and mentorship from an expert community and are backed by their corporate partner to test and scale their business model in the Thai market. In 2022, eight international and Thai startups were selected to develop a Proof of Concept (PoC) showcasing their decarbonization solutions for specific industrial sectors.

Decarbonize Thailand Symposium 2022

Decarbonize Thailand Symposium 2022 was the year's most significant clean energy seminar in Thailand. More than 400 participants joined the Symposium on 24 November for panel discussions, hands-on workshops, and a showcase from 24 climate startup teams.

SolarSTEP

We hosted 45 community representatives, mechanics, and engineers from every region of Thailand for the second SolarSTEP. Over a two-day training session, participants learned about solar panel design, Open Solar software, battery and inverter installation, and different types of solar business models. Our goal is to strengthen reliable energy access in rural areas by conducting technical training sessions for communities outside of Thailand's major urban area.

Energy NEX Young Innovators Bootcamp 2022

This ideation bootcamp was hosted with Thammasat University and included 50 students with 10 startup teams from 10 universities. The aim is to support young entrepreneurs to develop innovative ideas to tackle the climate crisis through an intensive two-day bootcamp, including workshops, lectures, mentoring, and team pitching. New Energy Nexus took students through problem identification, solution ideation, and business model development to identify three of the best teams who will work with New Energy Nexus and partners in the future.



SOLUTION SPOTLIGHT



PAC Corporation

Energy efficient air conditioners and water heating

Emissions from air conditioning units are accelerating climate change. On hot days, they suck tons of electricity from the grid, and their chemical refrigerants are dangerous pollutants and more harmful than carbon emissions. This is why researchers and startups are hoping to create new, cutting-edge AC units.

PAC Corporation is the producer and developer of energy saving water heaters and air conditioners in Thailand. Their products minimize environmental impact while reducing energy costs by recycling waste heat.



Support from New Energy Nexus

PAC Corporation participated in the Decarbonize Thailand Sandbox and was matched with corporate partner B. Grimm to scale its business. They also met other partners that are helping them scale their technology in Thailand.



ATCHARA POOME, FOUNDER AND CEO AT PAC CORPORATION

SOLUTION SPOTLIGHT



ReJoule

Making EV batteries last even longer

ReJoule enhances the value of each battery by allowing used EV batteries to power and store energy on the grid. With real-time data, ReJoule has developed technology that delivers insights into a battery's status (of health, charge, and power) to simplify testing and enhance the longevity, safety, and energy efficiency of batteries.

ReJoule's prototype is a lightweight, desktop computer-sized device that can diagnose in less than five minutes, and as little as 30 seconds, whether a battery is suitable for a second life.



Support from New Energy Nexus

ReJoule took part in the Decarbonize Thailand Sandbox (DTS), during which they were able to collaborate with PTT, Thailand's largest petrochemical conglomerate. They also met other partners that are helping them scale their battery health assessment technology in Thailand.

Rejoule has previously taken part in three other New Energy Nexus programs, demonstrating the value of our global reach for startups looking to expand. ReJoule was able to develop and test their prototype with US\$600,000 in non-dilutive funding from CalSEED and an additional US\$154,540 in testing vouchers from CalTestBed - two programs we run in California. ReJoule is also a Third Derivative alum - a program founded by New Energy Nexus and RMI to support emerging climate tech innovations.

WHO WE ARE



STANLEY NG
Program Director



JERRY HORESAENGCHAI
Program Manager



STEFANIE (STEFFI) MAYR
Project Manager



THITIN (PEEM) HANSMUTR
Program Associate

**NEW
ENERGY
NEXUS**
Thailand

For more information about
New Energy Nexus,
please contact us by email:

elizabeth.andrews@newenergynexus.com



Thank you to our partners

*OpenSolar
Sunolar Technology
True Digital Park
Tact Social Consulting
Charoen Pokphand Group
PTT
IRPC
B.Grimm Power
Banpu
Denso
US Embassy Thailand
EGS-Planning
TIE Solutions
Atlas Capital
South Pole
PxP Sustainability
Chula Engineering
Thammasat University
Chulalongkorn University
Mahidol University
King Mongkut's University of Technology Thonburi (KMUTT)
King Mongkut's University of Technology North Bangkok (KMUTNB)
Thai-Nichi Institute of Technology
Sripatum University
Bangkok University
Assumption University
Dhonburi Rajabhat University*