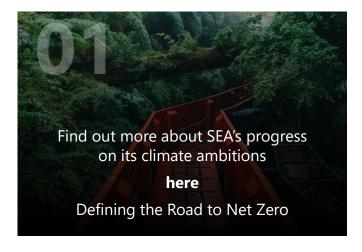
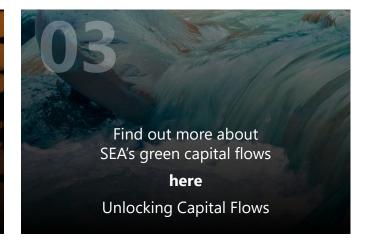


Read the main report here SEA's Green Economy 2021 Report: Opportunities on the Road to Net Zero







Country insights













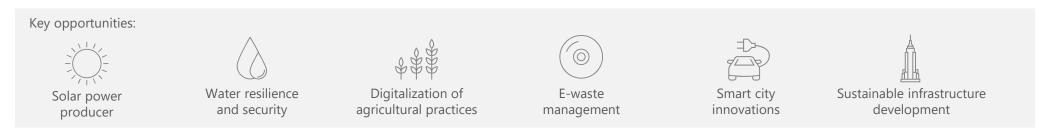
Find perspectives on Brunei, Cambodia, Laos, and Myanmar here



Key takeaways

Thailand can develop its green economy while building up climate resilience

Thailand's location offers it regional connectivity, but also exposes it to high risks of climate events such as flooding and drought. It can build up its climate resilience, ramp up waste management, and export energy and agriculture.



Sustainability policies rising to the top of mind for government and businesses, and conditional absolute annual emissions are projected to decrease in 2030 from 2018 levels

Thailand is pushing to install renewables and restore forest cover as part of its efforts to cut emissions (compared to business-as-usual levels). In line with government commitments, businesses are also answering the call with 4 Science Based Targets initiative (SBTi) signatories since 2020 (5 total) and multiple others with Net Zero targets as soon as 2030. Based on the latest conditional nationally determined contributions (NDC), Thailand's 2030 absolute annual emissions, emissions per capita, and emissions intensity for GDP are expected to decrease compared to 2018, though unconditional NDC targets imply that absolute emissions and emissions per capita will keep increasing.

Capital increasingly being deployed into the green economy, with a focus on energy

Thailand's green investment space shows strong promise. It leads the region in green initial public offerings (IPOs) and corporate investments, but private equity/venture capital (PE/VC) deals and infrastructure spending are still catching up.



Thailand could develop its green economy while building up climate resilience Key opportunities:



Solar power producer

The recently completed hydro-floating solar hybrid project at Sirindhorn Dam is proof of Thailand's domestic demand for solar power. Due to its proximity and anti-dumping duties, Thailand has also become an export hub for Chinese photovoltaic (PV) players. Ramping up PV production capacity is a priority, while ensuring social responsibility towards workers and local communities.



Electronic waste (e-waste) management

With >400,000 tons of e-waste, Thailand's waste-management sector deal with hazardous metals like lead, mercury and cadmium frequently. Yet the current system is too labor-intensive to handle them quickly and safely. Smart sensors and AI sorting systems would be a huge boost to the industry.



Water resilience and security

Climate change exacerbates Bangkok's vulnerability to flooding and Thailand's propensity for extreme heat. Two of its largest sectors, agricultural and hightech manufacturing, are also water-intensive. Advanced water management solutions that address both water resilience and security, such as predictive analytics and treatment plants, have huge latent potential.



Smart city innovations

As one of the key foci of Thailand's 20-year national development plan, the smart city concept has and will continue to receive strong governmental backing. In 2020, 39 cities committed to pursuing smart city development. Ways to more effectively handle climate issues like pollution, droughts and floods, like digital twin technologies, would be impactful.



Digitalization of agricultural practices

Thailand's smart farming market is forecasted to be \$270 million by 2022, and credit is available - foreign investments topped \$250 million in 2020. However, for the potential of intelligent agriculture to be unleashed, the technological, economic, and social hurdles for its many smallholder farmers must be addressed.



Sustainable infrastructure development

Thailand has committed to revamping its transportation system by building more motorways, double-track trains, and high-speed rail to link airport connectivity. In all, improvements to public transportation are expected to draw \$43 billion and promise to cut emissions.



Sustainability policies rising to the top of mind for government and businesses

Governmental policies for climate change

No	Net Zero target
20% unconditional ¹	emissions reduction from business-as-usual by 2030 (25% conditional)
ETS ²	under consideration
30% of total installed capacity	to be renewables by 2030
55%	of total area to be restored as forest cover by 2037

Landmark moves in the past year



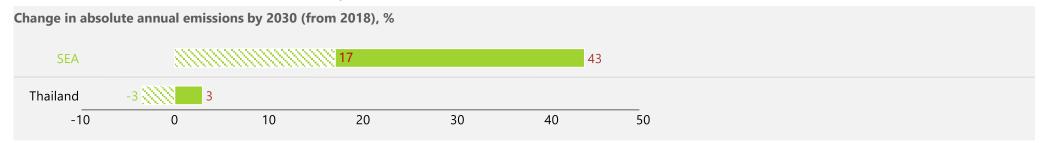
Business commitments to Net Zero **5** SBTi signatories Joined in... 2021 2020 2019 **Multiple others** with Net Zero targets Non-exhaustive Ву... 2030 banachak 2050 **B.GRIMM POWER**



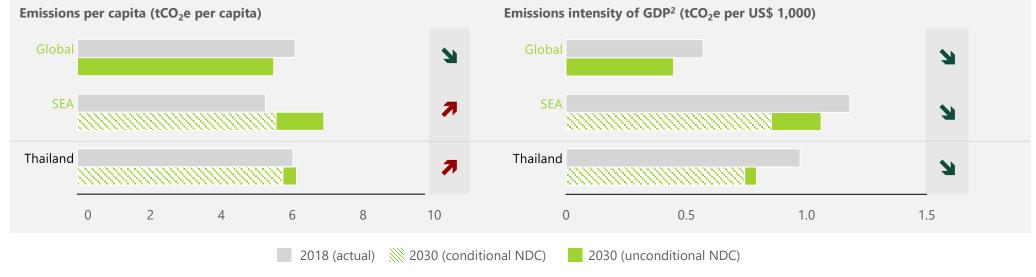
From 2018 to 2030, Thailand's unconditional absolute annual emissions expected to increase, but less than SEA overall, and conditional emissions to decrease

Based on latest NDC targets

Thailand's unconditional absolute annual emissions set to increase from 2018 to 2030, but conditional emissions to decrease; in both cases, Thailand outperforms SEA¹ overall



Thailand's unconditional emissions per capita set to increase while conditional emissions decrease from 2018 to 2030; unconditional and conditional emissions intensity of GDP set to decrease. Both metrics are lower than SEA overall in 2030



THAILAND Notes: 1. Includes funds raising capital for environmental and social sustainability objectives Assets under management (AUM) 2. Compounded annual growth rates; 3. Total value of asset category and GDP only includes SEA countries with available data 4. Excludes investments <\$15 million; 5. Excludes investments <\$10 million Sources: Climate Bonds; Asia

Assets Domicile: Dealogic: Pitchbook; Capital IQ; AVCJ;

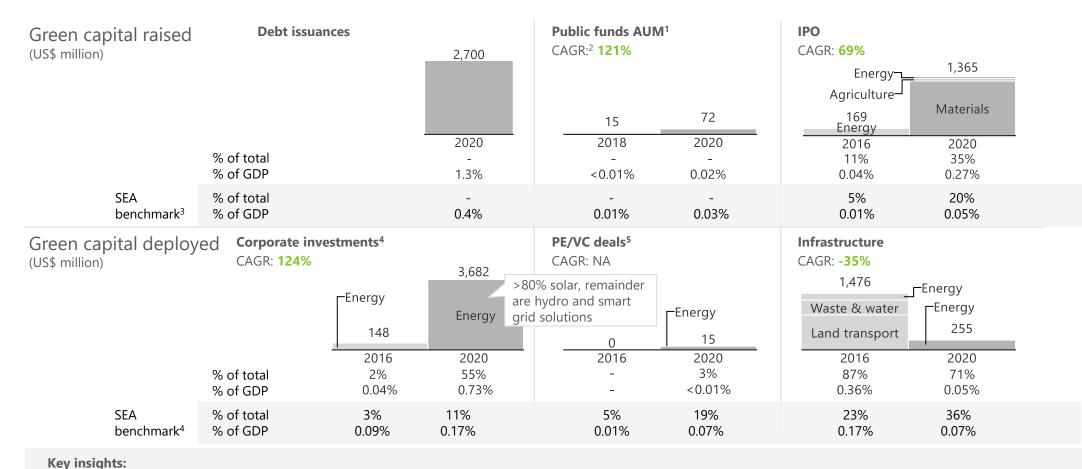
Pregin; World Bank

Capital increasingly deployed in green energy sector

Green fundraising on rise though from low base; spike in IPO in 2020 was due to a single fundraise by SCG Packaging

Increasing share of capital flowing into green corporate and PE/VC investments, but slight dip in infrastructure in 2020

In 2020, most attractive sector was **Energy** and **Materials**



Three asset categories have more than one-third of capital raised or deployed in green assets (all above SEA benchmarks)

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