

Green Pulse

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**PIONEERING CLEAN ENERGY AND
AFFORDABLE HOUSING AND COMMUNITIES**



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Pioneering Net-Zero Community Developer BillionBricks Secures Additional Funding from Thakral Corporation and ENGIE

Thakral Corporation joins ENGIE as key investor in Singaporean startup that develops net-zero homes and communities



A BillionBricks' net-zero community prototype, where design and innovation are used as the primary tools to solve the housing and global climate crises (Photo credit: BillionBricks)

BillionBricks, a climate-tech venture that combines clean energy and large-scale affordable housing, announced on December 23rd 2022, it has closed a US\$ 2.45 Million seed funding round which was led by investment from Thakral Corporation Ltd. Thakral Corporation joins ENGIE as cornerstone investors in BillionBricks. The Singaporean start-up was founded in 2013 as a non-profit by architect Prasoon Kumar and venture capitalist Anurag Srivastava to address the global climate and housing crises. At that time, Kumar and Srivastava provided shelters, schools, and emergency relief support to over 15,000 people across nine countries.

To expand its reach and impact, BillionBricks pivoted to become a for-profit company in 2020. By combining clean energy and large-scale affordable housing into a single financially-viable business proposition, BillionBricks presents an extraordinary opportunity for more people to become homeowners while significantly mitigating climate change. The Company's current phase of evolution is focused on disrupting the present and future of housing and renewable energy, through the pioneering of large-scale, net-zero homes and communities. "BillionBricks is taking on multiple sustainability challenges in a single solution, and looking to make a significant impact with each and every project," says BillionBricks CEO Prasoon Kumar.

Since its inception, BillionBricks has won a number of prestigious awards for its mission and innovative designs. These include the 2018 & 2020 President's Design Award (Singapore), the 2021 Global Holcim Commendation Award, the 2018 Smart Fifty Award (India), and the 2022 INDE.Awards (Australia).

BillionBricks' early success led to the investment from Thakral Corporation, a Singapore-listed investment holding company with a growing real estate investment portfolio in Australia and Japan. Its CEO and Executive Director, Inderbethal Singh Thakral shares, "I am very excited to see that BillionBricks' novel approach to tackling multiple sustainability challenges simultaneously has gained significant traction, and is set to disrupt both the renewable energy and housing segments. The investment in BillionBricks is in line with our strategy of expanding our focus to include impact investing and contribute to reducing environmental impact, while helping communities in need."

In the coming months, the first BillionBricks community will be launched in the Philippines. It will cover over 16 hectares of land, 1,600 homes and have 13 MW of electricity generation capacity through a utility-scale rooftop solar facility on top of the housing development. This community alone can offset more than 7,000 tons of CO2 emissions annually. For the initial projects, the homeowners will receive the equivalent of more than 20% of their monthly amortizations in the form of cash backs and free power, increasing their ability to own their first homes. The first housing project will be completed in the next five years with a goal for an additional pipeline of 45,000 homes with a 450 MW solar generation capacity.



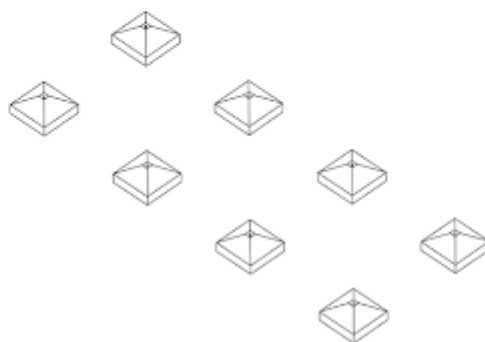
Empowering the Homeless in India: BillionBricks' award-winning designs attributed to its green architecture, sustainable design, and materials innovation (Photo credit: BillionBricks)

ENGIE is a global reference in low-carbon energy and services. With energy projects around the world, ENGIE brings its expertise in carrying out sustainable and renewable energy projects to enhance energy performance for businesses and communities that will accelerate the transition to a carbon-neutral economy.

“ENGIE is focused on accelerating Southeast Asia’s energy transition towards carbon neutrality while ensuring it remains affordable, available, and sustainable. By combining affordable housing and solar energy production, BillionBricks will help to achieve a fair energy transition, and we are proud to support its development goals,” said Thomas Baudlot, CEO for Energy Solutions APAC and Country Head for Southeast Asia.

BillionBricks’ mission and housing projects are strategically aligned with ENGIE’s push for decentralized, asset-based renewable energy solutions. Each BillionBricks’ housing development comes with a utility-scale rooftop solar farm. ENGIE brings strategic know-how and investment for implementation.

Thakral Corporation and ENGIE are joined in BillionBricks by Rumah Group, the Asia Sustainability Angels, Anurag Srivastava, and the CEO of PropertyGuru, Hari V. Krishnan, as pillar investors in BillionBricks. Because of their shared vision and common approach to technology and innovation, the partnership between the key investors and BillionBricks brings much promise in benefiting the future of housing and climate change.



Innovative Technologies of a BillionBricks’ Net-Zero Home: Pre-fabricated, modular, integrated solar roof, affordable, low-energy design, safe and smart (Photo credit: BillionBricks)

About BillionBricks

BillionBricks is a climate-tech venture that is creating the world's first carbon-negative community. BillionBricks is building a future where homes and communities combat climate change, create more resources than they consume and uplift the standard of living in our communities.

BillionBricks communities are designed to address the housing, energy, and climate crises. In addition to that, the rooftops of the houses in a BillionBricks community collectively work as a utility-scale solar farm, providing an essential guarantee to raise financing for the project and generate additional income for homeowners. BillionBricks offers an ecosystem of education, jobs, healthcare, and recreation facilities to foster community development and engagement.

To learn more about BillionBricks net-zero homes and communities, please visit our website at www.billionbricks.org.

About Thakral

Thakral Corporation Ltd is listed on the SGX Mainboard since December 1995. The Group's core business comprises a growing real estate investment portfolio in Australia, Japan and Singapore. Its investments in Australia include the development and management of over-50s lifestyle resorts under the GemLife brand, a joint venture with the Puljich family. Its Japanese investment portfolio comprises landmark commercial buildings in Osaka, the country's second largest city. The Group also makes strategic investments in new economy ventures.

The Group's other investments include the management and marketing of leading beauty, fragrance and lifestyle brands in China, Southeast Asia and India. It also operates an e-commerce retail platform for at-home beauty devices in China under a joint venture with UK-based CurrentBody.com Limited, the leading global at-home beauty device retailer.

For more information, please visit www.thakralcorp.com.

About ENGIE

Our group is a global reference in low-carbon energy and services. Together with our 101,500 employees, our customers, partners and stakeholders, we are committed to accelerate the transition towards a carbon-neutral world, through reduced energy consumption and more environmentally-friendly solutions. Inspired by our purpose ("raison d'être"), we reconcile economic performance with a positive impact on people and the planet, building on our key businesses (gas, renewable energy, services) to offer competitive solutions to our customers.

At ENGIE South East Asia, we are a fast-growing team of nearly 2,000 employees. With a geographical focus in Singapore, Malaysia and the Philippines, we bring efficient energy solutions spanning from integrated facilities management and low-carbon infrastructure (district cooling, EV charging, onsite solar, etc.) to large-scale renewables to our clients across the industry, real estate, and data center sectors. We act throughout the value chain to help our clients decarbonize today, for a better tomorrow.

For more information, please visit us at www.engie-sea.com.

Judy Cheong

Curious about cultures, human behaviours and how it all unlocks for brands, Judy has more than a decade of experience in advertising agencies and start-ups spanning APAC and Global roles. She led strategy and business development in an award-winning team at Ogilvy and created multi-market social campaigns with 100M+ global reach at Uber. With a strong focus on data and executional excellence, she is highly motivated to bring core functional teams together in collaboration to achieve big impactful ideas. She is the Head of Brand for Sustenir now, one of Asia's premier high-nutrition, indoor vertical farming leaders focusing on growing 100% clean superfoods to improve consumer health in super cities. At Sustenir, that means embodying the brand's mission to improve health spans and #LiveLarger in life by eating a bag of Sustenir greens every day and get a million people in South-East Asia to do the same.



Sustenir recently celebrated its 10-year anniversary in February. Does it still see itself as a start up?

Consumers are at the heart of everything we do here at Sustenir. Therefore, innovation never rests. We may be a matured start up at 10 years of age, but we still work with the urgency of a brand-new start-up.

Sustenir's roots began with vertical farming and reinventing the food value chain. And through the pandemic, we saw how we were no longer just a farm supporting food resilience, but an ecosystem player providing positive impact to various communities.

We focused on creating job opportunities in this new agri-tech industry; strengthened consumer health through fresh nutrition; and worked closely with customers in retail to bring wider awareness to eating better quality, pesticide-free leafy greens. Our long-term vision is to improve consumer health spans, empowering people in cities to add life to their years, not years to their lives, so there is a lot more for us to do.

There are lots of debate on the energy usage and sustainability of CEA, how is Sustenir addressing these two issues?

Sustenir is certified B Corp which means we look at both the human and environmental cost of doing business. We measure

sustainability holistically across five pillars: Governance, Workers, Community, Environment, Customers. We engage with various stakeholders such as schools, customers, and government agencies to ensure that we have a positive ecosystem impact be it job creation, educational programs, or consumer insights.

Our indoor vertical farms grow more with less resources such as using 95% less water, without environmental pollutants and without pesticides. There is an upside to growing our food supply without taking more land, without polluting water sources with toxic runoff, and without contributing further to food loss in the imported food value chain. Implementing energy-efficient technologies and practices maximise our resource usage whilst minimising environmental impact. Agri-tech is a blooming industry and as technology progresses, improvements will follow.

What are the challenges you face in your day-to-day operations?

It may not be obvious but in my role, I work cross-functionally with operations, sales, R&D, finance and HR in the development of our brand. A constant challenge in the organisation is resource management in the face of external pressures.

When lockdown occurred, we were cut off from raw materials in the middle of building

our third and largest farm in Singapore. We bootstrapped solutions and managed to complete construction works in 100 days. Our operations ramped up during COVID and we had to secure talent quickly to support increasing orders. We have big challenges like making sure we are scaling the business effectively and smaller ones like over-communicating between departments. Sustenir's tight-knit teams and unwavering commitment to progress, not perfection, keeps us going.

Can you elaborate a bit more on what you meant by next generation Superfood and how they are different from the normal Kale or lettuce available in supermarkets? How do these superfoods enhance the “food-mood” connection and are key to building long-term health spans of the population?

In the early days of the pandemic someone reminded me of a well-known saying: “eat your food as medicine otherwise you will eat medicines as food”. It's an old saying but the decades of food innovations have yielded more convenience than nutrition. Necessity being the mother of invention, as the world emerged from the pandemic with newfound priorities on health there is an opportunity to relook at what we eat and how we grow it.

A 2019 study by health service company Cigna found that 92 per cent of working Singaporean adults experienced stress. Other than a better workplace environment, we think that our diet could help alleviate this. GABA is naturally found in many food types including kale and is known to work like the body's traffic light system to reduce anxiety and stress.

The Health Promotion Board recommends two servings (or 200g) of vegetables daily. This is slightly more than 1 entire bag of Sustenir Kinky Kale or 2 bags of Mighty Mix daily! We know most people would fall somewhat short of eating this equivalent every day.

Sustenir looks at value-adding through higher nutrition such as our GABA enriched Toscano

Kale, which as a superfood ‘pound for pound’ is more nutrient dense in comparison to other vegetables such as iceberg lettuce. We believe less is more and having what consumers eat count – by growing more nutrient dense versus larger quantities consumed.



A view of how the greens are grown in Sustenir

How do you address the affordability of these superfoods?

We tailor our products based on the needs of consumers in different supermarket chains. You would be able to find our range of superfoods at upmarket retailers such as Little Farms and Cold Storage, specialist stores such as Don Don Donki, all the way to mass supermarkets like FairPrice and Sheng Siong. Our variety of products are curated to fit different needs and preferences across a range of affordability so everyone can enjoy a boost of health in their daily meals.

What is your message to new Agripreneurs who wants to venture into Controlled Environment Agriculture?

The agri-tech industry is vibrant and rapidly growing, combining cutting-edge technology with agriculture to solve some of the world's most pressing problems. It's a chance to be part of a transformative movement that changes the way we produce, distribute, and consume food whilst protecting the environment and creating economic opportunities. It is a positive impact on people and planet. Always think long term. In the hustle of the start-up, it's easy to only prioritise the short term and forget the bigger picture.

TOYOTA ASIA'S MULTIPLE PATHWAYS TOWARDS CARBON NEUTRALITY

Mr. Akio Toyoda, President & CEO of Toyota Motor Corporation (“Toyota”), and founder and team owner of ROOKIE Racing, participated under the driver name “Morizo” in the 25-hour endurance race in Thailand over December 17th and 18th 2022 in Toyota’s hydrogen-powered Corolla. This was the first time that this technology has been used in a race outside Japan. This was also an opportunity for Toyota to demonstrate its multiple pathway approach to accelerate actions towards Carbon Neutrality, by displaying and demonstrating various clean technologies, including Hybrid Electric Vehicles (HEV), Plug-in Hybrid Electric Vehicle (PHEV), Battery Electric Vehicles (BEV) and Fuel Cell Electric Vehicles (FCEV) that offer diverse environmentally friendly choices to customers across Asian markets. Mr. Hao Quoc Tien, CEO of Asia Region, and other senior executives from Toyota, joined Mr. Toyoda over the 2 day program.

Developing and showcasing the Hydrogen powered internal combustion engine vehicle (HiCEV) marks another step in Toyota’s technological efforts towards achieving global commitment of Carbon Neutrality by 2050.

Toyota believes that ‘carbon is the enemy’, and hence Toyota believes in a Multiple Pathway approach by offering customers the choice of various vehicle powertrain technologies, including HEV, PHEV, BEV, FCEV, HiCEV, or even bio-fuel vehicles. This allows every customer to select cleaner and greener mobility options that are suitable for their economic circumstances, energy source, charging infrastructure readiness, industrial policies and usage needs. This multiple pathways approach allows decarbonization to start immediately, without waiting for the maturity of all the enablers such as infrastructure and affordability, and hence can gain scale through accessibility. This is in line with Toyota’s “Mobility for All” objective and allows everyone to participate in the decarbonization journey. Toyota believes that the impact of clean technology can be felt only with its wide adoption across global markets. Beyond new vehicles, Toyota also believes in appropriate life-cycle action to truly decarbonize mobility and its ecosystem, and earnestly tackle climate change from cradle to grave.

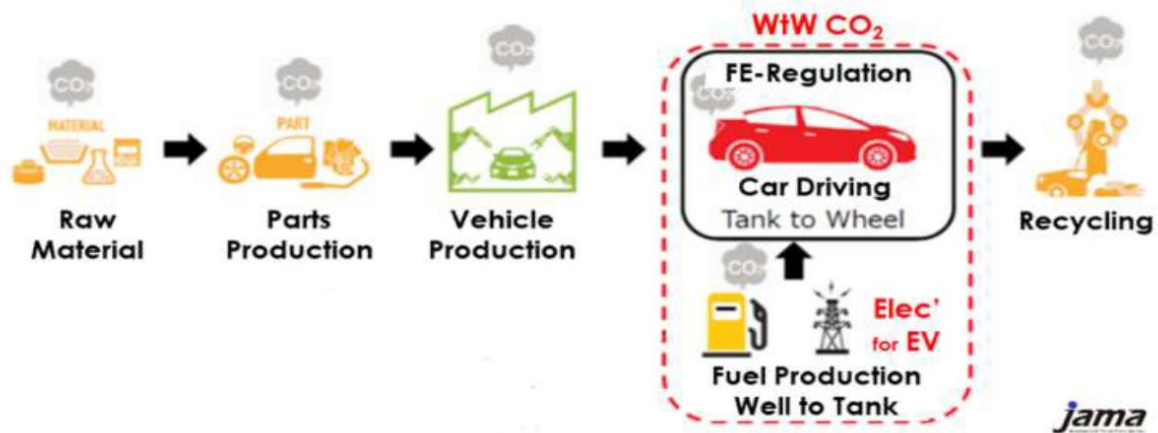
Toyota has carefully considered the best way to move to mass and accessible electrification in each market, through a ‘3 Lens’ approach that allow the company to best understand the enablers to accelerate carbon neutrality and electrification. These are 1) Emission Reduction, through well to wheel and lifecycle actions, 2) Economic Impact, including for the customer, government and industry, and most importantly 3) Customer Acceptance

3 Lens towards Carbon Neutrality in Asia



Specifically, for Emission Reduction, the consideration is to evaluate the total emissions, including tailpipe (tank-to-wheel) power generation (well-to-tank; e.g. fuel, electricity, etc.) and life cycle emission (from manufacturing and life-time usage).

Well-to-Wheel vs Tank-to-Wheel Concept



In multiple markets, it is recognized that power generation mix, including renewable energy ratio, plays a critical role in defining levels of emission in each market. Enabling mass adoption of electrified vehicles (xEVs) also needs Economic Impact enablers. xEVs are typically costlier due to the cost of the battery, and other advanced technology. It is believed that to improve accessibility, there should be incentives to promote all xEVs adoption fairly based on emissions. BEV and PHEV will also need charging infrastructure, where investment and incentives are required. Governments' incentives and subsidies are needed to accelerate xEV adoption and infrastructure roll-out, while also balancing the transition throughout the overall supply chain and ancillary industry.

Finally, and perhaps most importantly, the mass adoption of clean mobility options depends on Customer Acceptance. Especially in emerging markets in Asia, customers are very diverse in terms of their mobility needs, usage conditions, purchasing power, societal contexts etc. Considering that Mobility provides Opportunity for education, employment, trade, healthcare etc., Toyota aims to provide clean and green "Mobility for All" and in line with the Sustainable Development Goal of 'Leave No One Behind'. Under this condition, there is a need to address customer expectations towards electrification, including convenience and accessibility to infrastructure, price, safety, range and charging time. Unlocking such conditions would support a quicker and broader electrification shift.

There is a need to move from words to actions. During the race in Thailand, Toyota emphasized that a diverse market needs diverse choice wherein we can achieve carbon neutrality and mobility for all at speed and scale. The HiCEV, though in its early stages of development and usage, represents yet another action on our pathway to a cleaner and greener planet.

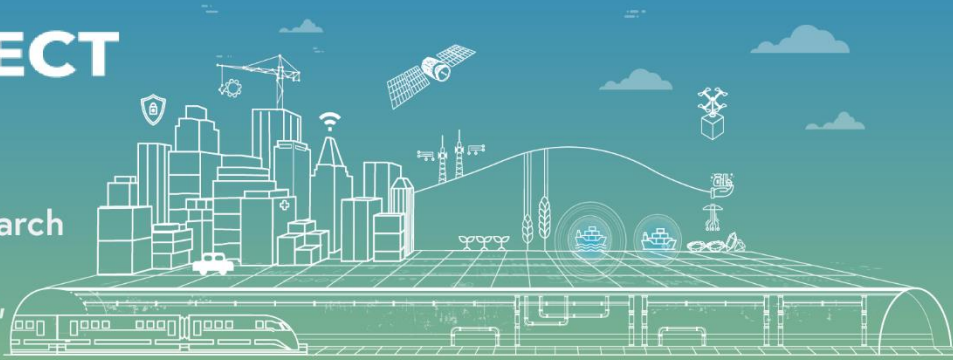


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The two-day Geo Connect Asia returns to Singapore on the 15th and 16th of March presenting more than 100 companies in the geospatial, location intelligence, digital construction and UAV industries.

Geo Connect Asia celebrates the return to a normal meeting environment.

The Main Stage Conference theme, **Advancing sustainable & resilient geospatial solutions for an interconnected world**, reflects the need to respond to sustainability goals with the pressing challenges associated with climate change, urban growth and a digitalised world, amongst many others. The programme also includes Expert Stages for *Digital construction*, *Digital Underground* and *Digital Rail*, Tech Talks and the UAV Innovation Theatre. Geo Connect Asia incorporates Digital Construction Asia and is co-located with the inaugural Drones Asia Show.

The combined event is expected to attract more than 3000 delegates and visitors from Singapore and the Asian region.

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Schneider Electric releases independent research studies that reveal sustainability action gap

- Reports and studies by three independent research firms indicate most of the IT and data centre industry is at the beginning stage of a sustainability journey
- 73% of organisations in one study rank sustainability as their #2 business priority, but only 33% say they have created a strategic sustainability plan
- Schneider Electric commissioned the papers to help the industry better understand the maturity of sustainability initiatives

Schneider Electric™, the leader in digital transformation of energy management and automation, is today sharing the results of three commissioned reports by independent research firms, which focused on sustainability in IT and data centre operations and the results reveal a disconnect between intent and action, indicating most of the industry is still at the beginning stage of its sustainability journey.

The three commissioned studies were conducted, separately, by industry leading analysts at 451 Research, a part of S&P Market Intelligence, Forrester Consulting, and Canalys. They collected data from nearly 3,000 global participants, including the largest colocation and cloud providers, IT solution providers, and IT professionals across many segments and organisation sizes.

The 451 Research paper revealed a perception-versus-reality dilemma with enterprise organisations believing their sustainability programs are more advanced than they are as “the maturity evaluations of nearly half (48%) of respondents did not match a previous answer.”

The Forrester Consulting paper focused on colocation and found that 73% of respondents reported sustainability as a business priority for their organisation, their #2 priority overall, but only 33% say their organisations have created a strategic sustainability plan.

The Canalys research determined that IT Channel partners are investing in sustainability strategies but are struggling to translate the investment into action and lack a clear answer on how to accomplish this goal. With 61% of partners having dedicated personnel for sustainability, only a third have set ESG targets.

“The research clearly demonstrates that across the data centre and IT industry, there is a sustainability action gap – the intention appears to be there, but action is lacking,” said Natalya Makarochkina, Senior Vice President, Secure Power Division, International Operations for Schneider Electric. “Of course, IT professionals understand and have taken steps to address sustainability. But what we lack, with some exception, is comprehensive and supported sustainability action plans and measurable targets to create the change required to address the climate crisis. These three research papers have documented a sustainability action gap and that is our collective challenge to address.”



WWF-Singapore's Sustainable Banking Assessment 2022 finds that despite increasing net-zero commitments, Asian banks also need to focus on nature-related risks

WWF-Singapore's 2022 Sustainable Banking Assessment (SUSBA), which now includes 36 ASEAN banks and 10 major Japanese and Korean banks, finds that more than double the number of banks from 2021's assessment have committed to achieving net-zero financed emissions by 2050. However, the report also finds that although leading banks continue to enhance their E&S risk management policies and processes, half of the banks assessed have made little or no progress since 2021. Equally, when it comes to nature risks, banks need to go beyond recognition and commitment and expand their capacity to manage these risks within their policies.

"The SUSBA 2022 assessment is a testament to WWF-Singapore's continuous efforts to rally financial institutions to recognise their role to tackle climate change. It echoes WWF-Singapore's tagline - 'Together Possible'. We look forward to deepen our engagement with regional banks and see them make meaningful progress towards our net-zero ambitions," said Mr R. Raghunathan, Chief Executive Officer at WWF-Singapore.

Kristina Anguelova, WWF-Singapore's Head of Asia Sustainable Finance, said "while net zero commitments among the assessed banks have increased to 39% in 2022 from 15% in 2021, it is imperative for the remaining banks to also make these commitments. Equally momentous, for all banks, is to develop science-based targets that guide the decarbonisation of their portfolios aligned with 1.5-degree pathways, along with credible transition plans, that go beyond climate and start to incorporate nature ambitions."

Banks need to develop capabilities to manage nature-related risks

Singaporean, Indonesian, and Malaysian banks, on average, meet at least 70% of the criteria for recognising nature-related risks. However, this recognition of risk is not reflected within client expectations and policies on nature-related issues. Only 40% of the criteria is met by Singaporean banks for setting client expectations on nature-related risk while other assessed countries meet only 20% of the criteria or lower.

"Developing capacity to identify, assess and manage nature-related risks will be crucial for banks given the targets set by the recent Kunming-Montreal Global Biodiversity Framework (GBF) and the Taskforce on Nature-related Financial Disclosures (TNFD) framework." Said Kristina Anguelova.

Sector-specific assessment amplifies banks' critical role against climate change

Financial institutions play an important role in safeguarding ecosystems and set client expectations to move towards sustainably sourced commodities. Of the 46 assessed banks, 11 banks disclosed palm oil policies, an improvement from 2021 when only three banks reported the same. Likewise in the energy sector, 49% of banks developed and disclosed specific energy sector policies, an increase from 29% in 2021.

However, despite increased coverage of bank policies within the palm oil sector, greater traceability is emphasised with the need for increased requirements of certification and supply chain traceability

solutions, and compliance from palm oil exporters to ensure commodities are deforestation-free. The gaps within the supply chains present opportunities for financial institutions to help clients with portfolio risk assessments and to minimise bank exposure to upcoming regulatory risks.

An analysis of the energy sector, the source of three-quarters of global greenhouse gas emissions, emphasised a greater need for more banks to set science-based targets to transition their energy portfolio, regardless of current incentives from regulators. In addition, an analysis of energy transition-related regulations also suggests that most regulators from the countries assessed are not yet requiring banks to set science-based targets and develop transition plans.

Regulators are pivotal in guiding the future

The 2022 assessment further highlights the pivotal position of regulators within the finance sector to implement and align E&S risk management requirements and to ensure financial stability for banks. The report shows that there is still wide variation in assessed banks' E&S integration performance both across the region and within most countries. Regulators are uniquely positioned to raise the bar, and level the playing field, by both aligning and enhancing ESG risk management and disclosure requirements throughout the region. They can further help banks to meet these requirements by supporting capacity-building and by initiating implementation task forces. With nearly half of the planet's biodiversity hotspots located in Asia Pacific, preserving this region will be critical in meeting global climate and nature ambitions.

About the report

WWF's 2022 Sustainable Banking Assessment (SUSBA) is an update of WWF's 2021 Sustainable Banking in ASEAN' report. The SUSBA framework was developed to provide a decision-useful assessment framework that incorporates E&S issues most relevant to the Asian region, and aligns with existing international frameworks, standards and initiatives, including Global Reporting Initiative (GRI) Sustainability Reporting Guidelines, UNEP-FI Principles for Responsible Banking (PRB), Task Force on Climate-related Financial Disclosures (TCFD) recommendations, and Sustainability Accounting Standards Board (SASB).

The report benchmarks 36 ASEAN banks and 10 major Japanese and Korean banks against a set of indicators that represent the robust ESG integration pillars (Purpose, Policies, Processes, People, Products and Portfolio). In addition, sector specific assessments are added to the SUSBA framework as a deeper dive into the Policies pillar, benchmarking bank commitments and expectations of clients. The results are presented in an online interactive platform (www.susba.org) which allows users to compare selected banks and indicators based on their preferences.

Only publicly available disclosure in the English language in the form of fiscal year 2022 annual reports, sustainability reports and information posted on corporate websites such as company policies, statements, and press releases.

About WWF-Singapore

World Wide Fund for Nature (WWF) is one of the world's largest and most respected independent conservation organisations. WWF's mission is to stop the degradation of the earth's natural environment and to build a future in which humans live in harmony with nature.

As one of WWF's international hubs, WWF-Singapore supports a global network spanning over 100 countries. WWF Singapore works closely with local stakeholders towards a greener and more sustainable Singapore and the region around us. We work to address key conservation areas, such as climate change, sustainable finance, deforestation, illegal wildlife trade, marine conservation, and sustainable production and consumption, through collaboration, education and outreach efforts involving the community, businesses, and governments.

For more information, please visit wwf.sg.

Abraclean launches Singapore's first recycled glass abrasive plant

Minister for Sustainability and the Environment, Ms Grace Fu, inaugurated ABRABLAST™ Singapore's first recycled glass abrasive manufacturing plant in Abraclean (Asia Pacific) Pte Ltd at 46 Pioneer Sector 2, on 31st January 2023. Present for the launch were Gurmit Singh, Chairman- Abraclean and Colonel (Ret) Lau Kee Siong- Director.

ABRABLAST™ is a proprietary and a registered trademark in Singapore. Abraclean holds a General Waste Disposal Facility licence issued by the National Environment Agency (NEA), to receive, store, process or treat glass waste. The facility is licensed with a design capacity of 50 tonnes per day. We are a "Social Enterprise" moving towards building a Circular Economy.

Gurmit Singh, Chairman, Abraclean said, "Sustainability is not just a vertical but also a horizontal layer that cuts across various industries. We are supporting Singapore's circular economy to ensure we recycle the glass and put it to use without harming Gaia (earth). We advocate for Singapore's Zero Waste Masterplan and believe this move will benefit the country such as contributing to raise recycling glass waste. We can process 40 tonnes daily, approximately 1,000 tonnes a month and 12,000 tonnes per year. This represents, about 16% of glass waste generated in Singapore. By recycling glass in this way, we will save on energy and reduce the carbon footprint. With a zero-waste solution we further aspire to lower the landfill burden."

About Abraclean (Asia Pacific) Pte Ltd

Incepted in the year 2017, Abraclean is a one stop solution company for Blasting and Coating Services. We partner with International Brands of Protective coatings to meet the standards of industry. The company has considerable experience in blasting and coating, corrosion protection by providing proper surface preparation and utilizing various coatings. ABRABLAST™ represents our first step towards zero waste.





Green In Future is a novel venture of like-minded professionals with achieving a sustainable future as the target. Among the many services provided, the diffusion of technology to as many as possible and as far as possible, educating and generating awareness by being the link between the producer and the user, giving adequate training to the interested to adopt an innovation in Urban Landscaping, Urban farming, Education, Environmental issues and Health etc. are in the forefront.

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