

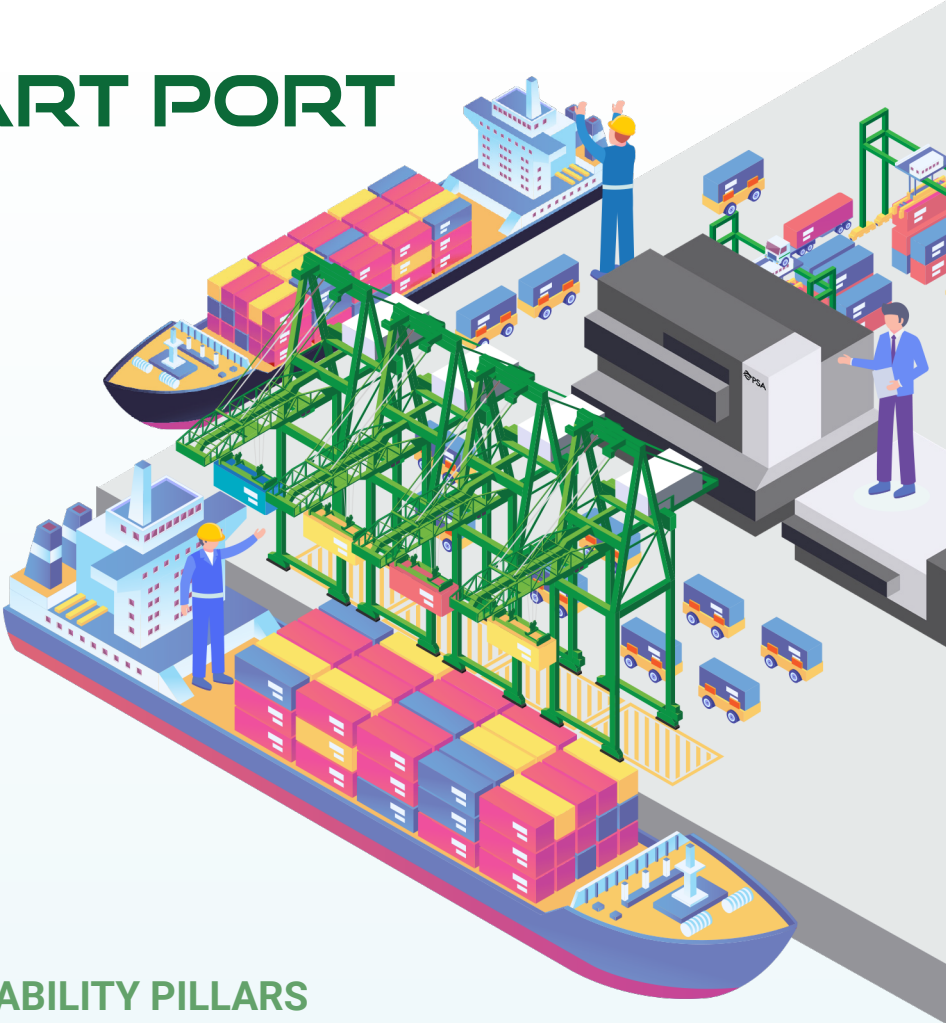


FORGING A SUSTAINABLE SMART PORT

PSA is cognisant of the impact we have on the environment. We stay committed to reducing our carbon footprint and developing a circular economy to battle climate change and global warming. We believe that a sustainable and greener workplace will effectively reduce our business’ impact on the environment.

Sustainability is at the heart of PSA’s business ethos and our decarbonisation efforts cover the entire value chain. Our present actions will impact future generations.

WHAT DIFFERENCE WILL YOU MAKE TODAY?



PSA’s 5 SUSTAINABILITY PILLARS

<div></div> <div>DECARBONISATION AND ENERGY RESET</div> <div>Achieve 50% reduction in absolute emissions by 2030</div> <div>Achieve NET ZERO emissions by 2050</div> <div>Decarbonising our port operations and working towards carbon neutrality through</div> <div><ul style="list-style-type: none">Conversion of diesel-powered equipment to electric-powered equipment lowers our carbon intensity by at least 30%Double our solar energy production to 12 GWh by 2022</div> <div></div> <div><ul style="list-style-type: none">Smart grid and Battery Energy Storage System (BESS)</div> <div></div> <div><ul style="list-style-type: none">Fully electric port equipment like battery-powered automated guided vehiclesConversion to LNG harbour tugs to reduce carbon emissions and lower noise levels</div>	<div></div> <div>TRANSFORMING SUPPLY CHAINS</div> <div>PSA seeks to digitally transform the maritime and port industry, harnessing sustainability as a competitive advantage.</div> <div><ul style="list-style-type: none">Spearhead the drive to transform the industryOrchestrate to decarbonise the global supply chainContinued commitment to innovation and digitalisation</div> <div>Sustainable Barging</div> <div><ul style="list-style-type: none">Daily barging of containers from Jurong Island shippers to our mainland terminals reduces up to 37% GHG emissions</div> <div>PSA’s CALISTA™ and Sea-Air transfer for e-commerce are platforms that optimise trade routes and reduce carbon emissions.</div> <div>SmartBooking, an online single end-to-end platform provides users with higher visibility of entire logistics flow.</div> <div>PSA continues to play a vital role in keeping global supply chains open and trade flows moving.</div>	<div></div> <div>GREEN HUB PORT</div> <div>Green values of a transshipment hub:</div> <div><ul style="list-style-type: none">✓ Network optimization with shipping lines✓ Optimize vessel utilization and fuel efficiency✓ Carbon efficient container handling operations</div> <div>Our transshipment optimization engine, ACET™, maximizes vessel utilization across shipping lines and better manages our yard inventory. A 20% improvement in vessel utilisation will have a 25% reduction in carbon footprint.</div> <div><ul style="list-style-type: none">PSA Liveable City development awarded BCA Green Mark Platinum AwardThe Administrative Building of Tuas Port Maintenance Base receives the BCA Green Mark Platinum for Super Low Energy - a first in PSA, with energy savings of up to 58% compared to a standard buildingTuas Port is a fully electrified facility and will have a 50% reduction in operational carbonThe berths and yard for Tuas Port are constructed using environmentally friendly concrete, Ground Granulated Blast-Furnace Slag (GGBS). The use of GGBS reduces construction carbon footprint by 72%Solar panels are installed on the rooftops across the port</div>	<div></div> <div>GREEN PORT CULTURE</div> <div>Empower and equip all PSA staff to be green-minded, green-skilled and green-motivated through outreach and training.</div> <div>And to enhance community engagement through</div> <div><ul style="list-style-type: none">PSA SG in Bloom ProgrammeGo Green Corporate Responsibility Programme</div> <div>Bring nature into the port through tree-planting, creation of food & recreational gardens.</div> <div>50 trees planted in the terminals since 2016.</div> <div>Co-create 2.5km stretch of Pasir Panjang Park, next to PSA Horizons and Pasir Panjang Terminal and to support Singapore’s “One Million Trees” movement.</div> <div></div> <div>The park connects to a public viewing deck which overlooks Pasir Panjang Terminal, bringing the port closer to the community.</div> <div>4 Food Gardens with more in the pipeline to encourage support for local produce and highlight the importance of Singapore’s food security.</div> <div>500kg of produce harvested in 2 years with more than 140 types of vegetables.</div> <div></div>	<div></div> <div>SUSTAINABLE BUSINESS</div> <div>Our green business practices are integrated into our corporate strategies and work processes, such as</div> <div><ul style="list-style-type: none">Sustainable ProcurementCircular economy incorporated into our day-to-day operationsRecycling programme for industrial, e-waste & office waste. In 2020, our waste recycling rate is 62%Water and electricity conservation efforts<ul style="list-style-type: none">» 6 rainwater collection tanks within the port allows PSA to harvest 6,300m³ annually, equivalent to 2.5 olympic-sized swimming pools» Tuas Port Maintenance Base will save 37,200m³ of potable water annually by using NEWater, the first facility in PSA to do soPasir Panjang Terminal and Tuas Port are built at least 5m above sea levels</div>
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