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**

**Decarbonisation and Energy Reset**

- Achieved 50% reduction in absolute emissions by 2030
- **Net Zero** emissions by 2050

Decarbonising our port operations and working towards carbon neutrality through:

- Conversion of diesel-powered equipment to electric-powered equipment lowers our carbon intensity by at least 30%
- Double our solar energy production to 13 GW by 2022
- Smart grid and Battery Energy Storage System (BESS)
- Fully electric port equipment like battery-powered automated guided vehicles
- Conversion to LNG harbour tugs to reduce carbon emissions and lower noise levels

**Transforming Supply Chains**

PSA seeks to digitally transform the maritime and port industry, harnessing sustainability as a competitive advantage.

- Spearhead the drive to transform the industry
- Orchestrates to decarbonise the global supply chain
- Continued commitment to innovation and digitalisation

**Sustainable Barging**

- Daily bargeing of containers from Jurong Island to our mainland terminals reduces up to 37% emissions
- PSA

**Calista** and Sea-Air transfer for e-commerce platforms that optimise trade routes and reduce carbon emissions.

**SmartBooking**, an online single-end-to-end platform provides users with higher visibility of entire logistics flow.

PSA continues to play a vital role in keeping global supply chains open and trade flux moving.

**Green Hub Port**

Green values of a transhipment hub:

- Network optimisation with shipping lines
- Optimize vessel utilization and fuel efficiency
- Carbon efficient container handling operations

Our transhipment optimization engine, ACE™, maximized vessel utilization across shipping lines and better manages our yard inventory. A 20% improvement in vessel utilization will have a 25% reduction in carbon footprint.

- PSA Liveable City development awarded BCA Green Mark Platinum Award

**Green Port Culture**

Empower and equip all PSA staff to be ‘green-minded’, green-skilled and green-motivated through outreach and training.

And to enhance community engagement through:

- PSA SG in Bloom Programme
- Go Green Corporate Responsibility Programme

Bring repute into the port through tree-planting, creation of food & recreational gardens

50 trees planted in the terminals since 2016

- 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.

The park connects to a public viewing deck which overlooks Pasir Panjang Terminal, bringing the port close to the community.

- 4 Food Gardens with more in the pipeline to encourage support for local produce and highlight the importance of Singapore’s food security.

500kg of produce harvested in 2 years with more than 140 types of vegetables.

**Sustainable Business**

Our green business practices are integrated into our corporate strategies and work processes, such as:

- Sustainable Procurement
- Circular economy incorporated into our day-to-day operations

In 2020, our waste recycling rate is 62%

- 6 rainwater collection tanks within the port

- Tuas Port Maintenance Base will save 37,200 m³ of potable water annually by using NEWater, the first facility in PSA to do so

- PSA Horizons and Pasir Panjang Terminal

- Tuas Port is built at least 5m above sea levels