Global Compact Network Singapore

PRIMECH A & P

LowCarbonSG Awardees (2023 – 2025):

Leaders in Action on Decarbonisation

How Primech A & P Delivers Measurable Decarbonisation under Real-World Constraints



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i. Introduction

Across the global business community, climate ambition has become commonplace. Targets have been announced, strategies articulated, and commitments formalised. Yet as expectations rise, so too does scrutiny — stakeholders now ask not only what companies intend to do, but how progress is being made and whether it can be verified. In this context, credibility matters.

Singapore presents a distinctive operating environment for sustainability. As a small, densely urbanised city-state with limited access to renewable energy sources, businesses here cannot rely on the geographic advantages available to larger economies. Instead, they must find low-carbon pathways within tight constraints — navigating strict regulations, high governance standards, and complex supply chains, while maintaining operational efficiency and commercial viability.

This article is part of a series profiling companies recognised under the LowCarbonSG programme, an initiative helmed by the UN Global Compact Network Singapore (UNGCNS) that honours demonstrated, measurable progress in reducing Scope 1 and Scope 2 greenhouse gas emissions over a defined period. Rather than rewarding ambition or aspiration, the programme values disciplined, evidence-based improvement — reflecting a principle that is increasingly important for corporate leaders: climate action must be verifiable, defensible, and repeatable.

The company profiled here represents one such journey. Regardless of sector or scale, what unites the LowCarbonSG awardees is not perfection, but a commitment to progress — anchored in clear boundaries, credible data, management accountability, and sustained operational effort. Their experiences offer practical lessons for organisations across Singapore and beyond that are seeking to move from commitment to delivery, and from ambition to evidence.

The following profile documents the low-carbon journey of **Primech A & P**, a company in the Facilities & Services sector and **2024** LowCarbonSG awardee.

PRIMECH A & P

2024 LowCarbonSG Awardee: Primech A & P — Charting a Low-Carbon Future in Facility Services

1. Introduction

Primech A & P is a Singapore-headquartered, technology-driven facility services and solutions provider dedicated to elevating facility performance across both public and private sectors. With approximately 2,500 employees (2024–2025), the company supports a diverse portfolio through a comprehensive suite of services such as building conservancy cleaning, institutional and industrial cleaning, stewarding, pest control and specialised maintenance.

The company's purpose is anchored in its **Mission: Creating a better environment for everyone** and guided by its **Vision: Through a commitment to excellence and continual investment in our people, we strive to become a leading name in the industry**. These principles shape Primech A & P's approach to service delivery, innovation and sustainability.

Primech A & P's leadership philosophy is reflected in the words of its leadership, who shared with CNA News Asia that *"Primech A & P is the partner of choice for forward-thinking commercial building owners because we combine cutting-edge technology with exceptional service to deliver groundbreaking, high-performing solutions that enhance sustainability and building performance."* This commitment is evident in the company's adoption of autonomous cleaning robots, advanced mechanised equipment and app-based monitoring systems—solutions that address manpower challenges while raising cleaning standards, safety and transparency. Primech A & P's dedication to innovation is demonstrated in its autonomous cleaning robots in its daily operations across complex environments such as Changi Airport, hotels and public facilities.

2. Carbon and GHG Reduction Initiatives and Practices

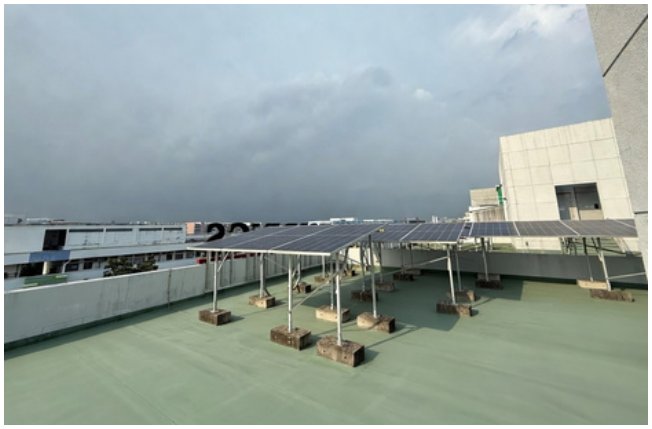
Primech A & P's sustainability strategy is closely aligned with the Singapore Green Plan 2030, reflecting the company's commitment to supporting national climate goals and meeting rising client expectations for environmentally responsible facility services. Its leadership has noted, *"By implementing eco-friendly practices and technologies, we can significantly reduce our carbon footprint, enhance resource efficiency and provide sustainable solutions that align with our clients' environmental goals."*

A key pillar of this strategy is the transition to electric vehicles **(EVs)**. By replacing twenty (20) diesel-powered operational vans with EVs, Primech A & P has significantly reduced greenhouse gas emissions while improving operational efficiency. The installation of EV charging stations at the company's headquarters further supports this transition.





The company has also invested in renewable energy through the installation of solar panels at its headquarters. These panels generate clean electricity and reduce reliance on the national grid. Complemented by LED lighting, and water-efficient fixtures, these measures have helped optimise energy consumption. A dedicated monitoring system tracks solar performance to ensure consistent efficiency.





Primech A & P's commitment to sustainable cleaning extends to the use of Singapore Green Label-certified cleaning products.



Primech AI, produces an automated toilet-cleaning robot (Hytron) which generates electrolyzed water—a chemical-free approach that minimize water and energy usage while maintaining high hygiene standards.



The company also deploys the Tersano Lotus PRO Stabilized Aqueous Ozone **(SAO)** Generator, which converts tap water into a powerful, chemical-free disinfectant. SAO effectively removes dirt, grease and germs while remaining free from harsh chemicals and toxins, making it ideal for sensitive environments such as classrooms and childcare facilities.



Beyond technology, Primech A & P has implemented operational practices that further reduce its environmental footprint. These include paperless workflows, energy-saving measures during lunch hours—such as switching off non-essential air-conditioning—and hybrid working arrangements that reduce commuting emissions. The company also actively engages clients on sustainable cleaning options and the use of environmentally friendly products.

3. GHG Performance

Primech A & P's sustainability initiatives have delivered measurable improvements in carbon and energy performance, reflecting a strong commitment to operational decarbonisation.

The transition to twenty (20) electric vehicles has resulted in reduction in carbon emissions, demonstrating the tangible impact of fleet electrification. Following the initial rollout phase, performance has stabilised, with incremental improvements achieved through better fleet utilisation, route optimisation and operational efficiencies.

Meanwhile, the installation of solar panels and the adoption of energy-efficient systems have contributed to **energy savings**, with continued improvements expected as optimisation efforts mature.

These results highlight Primech A & P's ability to integrate sustainability into its core operations, delivering consistent and measurable environmental benefits while supporting long-term goals.

4. Transferrable Technologies and Practices

Primech A & P's experience shows that many of its sustainability initiatives can be adopted by other organisations looking to improve environmental performance and operational efficiency. The company's use of technology-enabled cleaning solutions—such as autonomous cleaning robots, robotic scrubbers, mechanised sweepers and app-based monitoring systems—demonstrates how digital tools can raise cleaning standards while easing manpower pressures. Primech A & P also uses sustainable cleaning technologies like Stabilized Aqueous Ozone (SAO) systems and its electrolytic-water cleaning robot, Hytron, both of which reduce the need for harsh chemicals and support safer, greener cleaning practices.

The company's low-carbon operational practices offer another set of practical, scalable solutions. Fleet electrification, solar energy adoption, energy-efficient fixtures and scheduled energy-saving measures have all contributed to lower emissions and reduced energy use. These are described as "low-carbon operational practices, such as fleet electrification, solar energy adoption, energy-efficient fixtures and scheduled energy-saving measures." Workforce development is also a key part of Primech A & P's model. By training staff to operate robotic and mechanised equipment, handle specialised cleaning tasks and respond to safety situations, the company ensures that its sustainability efforts are supported by a capable and confident workforce. The report emphasises this through "workforce upskilling, particularly in the operation of robotic and mechanised equipment, specialised cleaning for hospitality environments and safety response training."

Finally, Primech A & P's organisational practices—such as paperless workflows, hybrid work arrangements and client engagement on environmentally friendly cleaning options—show how sustainability can be embedded into everyday operations. These practices are simple to implement and can help organisations reduce waste, cut emissions and strengthen their environmental culture.

5. Challenges, Actions Taken and Conclusion

Primech A & P faced several practical and organisational challenges as it advanced its sustainability efforts. One of the most persistent difficulties was data collection. Tracking emissions across a large, distributed workforce and numerous client sites required time, coordination, and the development of consistent processes. Alongside this, shifting employee mindsets proved equally demanding. Habits such as adopting paperless workflows or switching off non-essential systems during lunch hours may appear simple, but embedding them across the organisation required sustained communication and cultural reinforcement.

Upfront investment in technology also posed a significant hurdle. Committing to fleet electrification, solar panel installation, and robotic cleaning systems demanded confidence in long-term value before returns became visible. These decisions required leadership conviction and a workforce that genuinely believed in the organisation's sustainability direction. Ultimately, this shared commitment became a key factor in maintaining momentum.

Primech A & P's experience shows that meaningful sustainability progress emerges from a balanced combination of technology adoption, practical operational improvements, and thoughtful organisational habits. By integrating renewable energy, robotics, chemical-free cleaning systems, fleet electrification, and continuous staff training, the company has developed a model that is both effective and replicable. Its journey demonstrates that sustainability does not depend on dramatic transformations; rather, consistent, well-chosen steps can deliver real gains in environmental performance while strengthening service quality and operational resilience.

Global Compact
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UN Global Compact Network Singapore (UNGCNS) is the local chapter of the United Nations Global Compact. As the leading voice on corporate sustainability in Singapore, UNGCNS drives multi-stakeholder action to forge a more sustainable future, founded on the Ten Principles of the United Nations Global Compact and the Sustainable Development Goals. Through various platforms and partnerships, UNGCNS advances the stewardship of sustainable business practices and Singapore's national agenda of becoming a regional sustainable business hub.

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