



News Release—For Immediate Release

## **Tertiary Students Present Winning Proposals to Harness Technology to Advance Maritime Sustainability and Enhance the Well-Being of Seafarers at the MaritimeONE Case Summit 2024 Grand Finals and Awards Ceremony**

*Students from NTU, NUS, SMU, SUSS, and SUTD pip the competition in the 5<sup>th</sup> edition of this case challenge organised by the Singapore Maritime Foundation*

**Singapore, 8 November 2024** — At the MaritimeONE Case Summit (MCS) 2024 Grand Finals and Awards Ceremony held last evening, the winning teams for the respective challenge statements issued by sponsoring companies—CMA CGM, Pacific Carriers Limited, Petredec Global and TotalEnergies Marine Fuels—were announced. Following the prize presentation, the champion teams presented their innovative proposals addressing industry challenges that ranged from enhancing shipping’s sustainability related practices to improving seafarer’s well-being.

Mr. Baey Yam Keng, Senior Parliamentary Secretary, Ministry of Sustainability and the Environment & Ministry of Transport, graced the event as the Guest-of-Honour.

Organised yearly in partnership with leading maritime multinationals, the MaritimeONE Case Summit brings together tertiary students from diverse educational backgrounds and institutions to respond to challenge statements at the nexus of business, technology and sustainability, which reflect a global industry on the cusp of transformative change.

This year, the case competition saw the participation of a record 416 students across 127 teams from Singapore’s public universities and polytechnics. The participants come from a spectrum of disciplines including maritime studies, supply chain management, business, chemical and biomolecular engineering, data science and analytics, economics, and more.

The following are the winning teams of the MCS 2024:

COMPANY	CHALLENGE SYNOPSIS	WINNING TEAMS
<a href="#"><u>CMA CGM Group</u></a>	<p>To develop a solution that improves existing policies and practices to better track, report and reduce Scope 3 emissions, by addressing one to two of the following areas:</p> <ul style="list-style-type: none"> <li>▪ Data collection and management</li> <li>▪ Collaborative frameworks for stakeholders in the supply chain</li> <li>▪ Sustainable procurement practices</li> <li>▪ Education and training programmes</li> </ul>	<p><b>Champion</b> Team: Biohazards Institutions: SMU and SUSS</p> <p><b>1<sup>st</sup> Runner-up</b> Team: Oceans 4 Institution: NTU</p> <p><b>2<sup>nd</sup> Runner-up</b> Team: SeaQuesters Institution: NTU</p> <p><b>Merit Prizes</b> Team: Maricon Strategists Institution: NTU</p> <p>Team: Our B3tter Ways Institution: NTU</p>
<a href="#"><u>Pacific Carriers Limited</u></a>	<p>To innovate solutions that will enhance the wellbeing of navigation officers. Solutions should incorporate the use of technologies and focus on being user-friendly and people centric. Expected outcomes include enhanced operational practices on the bridge, improved fatigue management, and better operational efficiency.</p>	<p><b>Champion</b> Team: Green Elephants Institution: NTU</p> <p><b>1<sup>st</sup> Runner-up</b> Team: 4 Peas in a Pod Institutions: NTU and NUS</p> <p><b>2<sup>nd</sup> Runner-up</b> Team: Tidal Titans Institution: SUSS</p> <p><b>Merit Prizes</b> Team: Glint</p>

		<p>Institution: NTU</p> <p>Team: S.F.G Institution: NTU</p>
<a href="#"><u>Petreded Global</u></a>	<p>To quantify the reduction in carbon emissions arising from the substitution of biomass with LPG as a cooking fuel in the developing world through 2050, and evaluate LPG's credentials as a transition fuel.</p>	<p><b>Champion</b> Team: Captain Crunch Institution: NTU</p> <p><b>1<sup>st</sup> Runner-up</b> Team: Ship Institution: NUS</p> <p><b>2<sup>nd</sup> Runner-up</b> Team: Across Seven Seas Institution: NTU</p> <p><b>Merit Prizes</b> Team: Anchorage Institutions: SMU and NTU</p> <p>Team: The Four Beavers Institution: SMU</p>
<a href="#"><u>TotalEnergies Marine Fuels (TEMF)</u></a>	<p>To propose a robust framework that will enable:</p> <ul style="list-style-type: none"> <li>▪ TEMF to leverage on its existing LNG supply chain to deliver bio-methane produced in the region to ships in the Singapore port, while avoiding additional emissions linked to a physical supply.</li> <li>▪ Shipping companies to claim carbon savings from the use of such bio-methane within their carbon accounting frameworks along with the use of fossil LNG.</li> </ul>	<p><b>Champion</b> Team: SENDIT Institution: NTU</p> <p><b>1<sup>st</sup> Runner-up</b> Team: Zero Energy Institution: NTU</p> <p><b>2<sup>nd</sup> Runner-up</b> Team: Nogo Institution: NTU</p> <p><b>Merit Prizes</b> Team: Jurong Regional Port Institution: NTU</p> <p>Team: StarLNG</p>

		Institutions: NTU and SUTD
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**Quote from SMF Chairman**

“Each year, the MaritimeONE Case Summit promotes innovation and interdisciplinary collaboration amongst our tertiary students by encouraging them to apply their problem-solving skills to complex challenges in the maritime industry. I thank CMA CGM, Pacific Carriers Limited, Petredec Global, and TotalEnergies Marine Fuels for your support in nurturing our youth through experiential learning opportunities and mentorship,” said **Mr. Hor Weng Yew, Chairman, Singapore Maritime Foundation.**



*Team Biohazards from Singapore Management University and Singapore University of Social Sciences- Champion Team for the CMA CGM Group*

**Quotes from the CMA CGM Group and Champion Team**

“Congratulations to the winning teams and thank you to all participants for bringing forward innovative ideas to address the challenge of reducing Scope 3 emissions. We’re inspired by the creativity shown and look forward to exploring how some of these

proposed solutions can further enhance our existing practices. As a sponsor of the MaritimeONE Case Summit for the third year, we're particularly encouraged to see a really strong female lineup among the top three teams this year. We're proud to support and nurture these bright minds for the future of the maritime industry," said **Mr. Bo Wegener, Chief Executive Officer, CMA CGM Asia Pacific**.

"Our passion for ensuring sustainability and survivability of the future motivated us to participate in MCS 2024, as it offers a unique platform to address pressing environmental challenges. This competition not only sharpens our problem-solving and collaborative skills, but also encourages Singapore youths to engage with sustainability, fostering a generation of innovative thinkers dedicated to shaping a more resilient and eco-conscious future," said **Team Biohazards, champion team of CMA CGM Group**.



*Team Green Elephants from Nanyang Technological University- Champion Team for Pacific Carriers Limited*

### **Quotes from Pacific Carriers Limited and Champion Team**

"We are thrilled by the overwhelming and enthusiastic response from students at this year's MaritimeONE Case Summit. It's truly inspiring to see future leaders of the maritime industry engaging with one of our sector's most pressing challenges—supporting the welfare of seafarers. We hope they carry forward this passion, developing people-centered solutions that enhance both safety and efficiency in shipping operations,

recognizing crew well-being as essential to achieving operational excellence," said **Captain Chubasco Monteiro, Deputy Chief Executive Officer, Pacific Carriers Limited.**

"People are the driving force behind a company's success, and seafarers play a pivotal role in shipping operations as the backbone of all activities. We believe that their welfare is an often-overlooked aspect of the maritime industry. This case summit gave us the opportunity to focus on the well-being of crew members by prioritizing mental health and onboard safety," said **Team Green Elephants, champion team of Pacific Carriers Limited.**



*Team Captain Crunch from Nanyang Technological University- Champion Team for Petredec Global*

### **Quotes from Petredec Global and Champion Team**

"Petredec Global is proud to partner with the Singapore Maritime Foundation on this innovative project that offers students the opportunity to provide solutions to timely, real-world problems in a professional setting. The students' experience will serve them well as they prepare to enter the workforce while also addressing many of the crucial skills they will need to cultivate throughout their careers, such as critical thinking and presenting distilled findings to decision makers with a view to influencing outcomes. The level of preparation and analytical rigour exhibited by the students was tremendously

encouraging and we look forward to highlighting excerpts of their presentations in connection with raising awareness for the pivotal role LPG can play as a cooking fuel in the developing world,” said **Mr. John Papaioannou, Group Chief Financial Officer, Petredec Group.**

“As Singaporeans, we enjoy easy access to affordable and reliable energy, and we often take this for granted. However, close to 30% do not have access to clean cooking fuel, leading to negative social and environmental outcomes. Our team hopes to spread awareness that greater effort is needed to drive greener energy supply to meet the growing demand, especially in lower middle-income countries,” said **Team Captain Crunch, champion team of Petredec Global.**



*Team SENDIT from Nanyang Technological University- Champion Team for TotalEnergies Marine Fuels*

### **Quotes from TotalEnergies Marine Fuels and Champion Team**

“We are incredibly impressed by the dedication and creativity of the finalist teams at this year's MaritimeONE Case Summit. They have taken a complex challenge on building a chain of custody model for low-carbon fuels and made it relatable to a broader audience, exceeding our expectations. We are grateful to the Singapore Maritime Foundation (SMF) for providing this platform, which has given students a valuable opportunity to tackle real industry challenges and offered us fresh perspectives. Congratulations to all participants

and thank you to SMF for making this engagement possible,” said **Mr. Stéphane Basset-Chercot, Deputy Vice President of TotalEnergies’ Aviation and Marine Fuels Division.**

“What led us to participate in MCS 2024, was the opportunity presented to us to tackle real-world challenges faced in the maritime industry. In the case of our challenge statement from TOTALEnergies Marine Fuels, the proposal for a chain of custody mechanism in Southeast Asia as part of the industry’s efforts to decarbonise, intrigued us and spurred us to take it up. Like TOTALEnergies Marine Fuels, the other challenge statements from the participating companies provide students a platform to demonstrate their creativity and engage with industry leaders to solve these pressing issues. The MCS remains crucial for Singapore’s youths to broaden our thinking and inspire us to contribute to a greener, more equitable future,” said **Team SENDIT, champion team of TotalEnergies Marine Fuels.**

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### **About the Singapore Maritime Foundation**

Established in 2004, the Singapore Maritime Foundation (SMF) is a conduit between the public and private sectors to accomplish the twin mission of developing and promoting Singapore as an International Maritime Centre (IMC); and to attract, engage and grow a talent pipeline to position Maritime Singapore for continued growth.

SMF galvanizes the industry to drive a holistic suite of talent development programmes such as scholarships, internships, case competitions, campus seminars, company visits, a career portal, and more, to support the educational pursuits of young talent and to equip them with skills for the maritime sector.

For details, visit [www.smf.com.sg](http://www.smf.com.sg).

### **About the CMA CGM Group**

Led by Rodolphe Saadé, the [CMA CGM Group](https://www.cma-cgm.com), a global player of sea, land, air and logistics solutions, serves more than 420 ports around the world across five continents, with a fleet of around 620 vessels. In 2023, it carried a total of 21.8 million TEU (twenty-foot equivalent unit) containers. With its subsidiary CEVA Logistics, a global logistics provider that delivered 522,000 tonnes of air cargo and more than 22 million tonnes of inland freight cargo, and its CMA CGM AIR CARGO division, the CMA CGM Group is constantly innovating to offer its customers a comprehensive, increasingly efficient range of new maritime, overland and air shipping and logistics solutions.

Firmly committed to the energy transition in shipping and a pioneer in the use of alternative fuels, the CMA CGM Group has set a Net Zero Carbon target for 2050.



Every year, the Group supports thousands of children through its CMA CGM Foundation, with initiatives to promote education and equal opportunity for all. The CMA CGM Foundation also responds to humanitarian crises requiring urgent action by calling on the Group's shipping and logistics expertise to deliver humanitarian supplies around the world.

Present in 160 countries through its network of more than 400 offices and 750 warehouses, the Group employs 180,000 people worldwide, of which around 6,000 in Marseille where its head office is located.

### **About Pacific Carriers Limited**

Pacific Carriers Limited (PCL), established in 1973, is a leading global shipping operator, with strong commitment to maritime excellence. Over the past five decades, PCL has built a robust reputation by providing shipping services and comprehensive maritime supply chain solutions to a diverse clientele worldwide.

PCL operates a diversified fleet that includes bulk carriers, tankers, and specialized vessels. This versatility enables us to efficiently transport and deliver a wide spectrum of bulk and specialized cargoes globally, catering to the unique needs of the commodities, energy, and industrial markets.

Headquartered in Singapore, PCL leverages its industry expertise and global track record to ensure that clients receive tailored solutions that meet their specific requirements. PCL is also staffed by a team of highly skilled professionals that are committed to maintaining the highest standards of safety, reliability, and environmental stewardship, positioning PCL as a trusted partner in the maritime sector.

Driven by its core values of integrity, excellence, and innovation, PCL continues to navigate the ever-evolving landscape of global shipping, consistently striving to exceed expectations and deliver exceptional value to its stakeholders.

For more information, please visit [www.pclsg.com](http://www.pclsg.com).

### **About Petredec Global**

[Petredec Global](#) is the world's leading VLGC shipping & trading company. We connect our clients around the world through logistics optimization. Our visibility across the entire LPG ecosystem allows us to cultivate and maintain dependable, yet flexible, floating infrastructure networks everywhere that LPG is supplied and in demand.

Focused solely on LPG, one of the planet's cleanest burning energy sources, Petredec Global comprises the world's youngest and second largest VLGC fleet and one of the leading physical products and derivatives trading platforms. Our six dual fuel new builds

emit 25% less CO2 than their non-eco equivalents while also returning 25% higher earnings.

It is through this fully integrated model and 360-degree market view that Petredec Global provides industry-leading logistics to our clients, superior profitability to our shareholders, and is best placed to benefit from growing US production and rapidly increasing global LPG demand.

We pride ourselves on our extraordinary growth over the last four decades. We remain focused on expansion throughout the LPG value chain, specifically by unlocking logistical bottlenecks and providing clean-burning and life-changing energy alternatives to existing and emerging markets.

### **About TotalEnergies Marine Fuels**

With over three decades of market experience, TotalEnergies Marine Fuels is the dedicated business unit of TotalEnergies that oversees the Company's worldwide bunkering activities. A long-term partner to the global shipping industry, TotalEnergies Marine Fuels serves more than 200 shipping customers across over 130 ports in Europe, Asia Pacific and Africa. Its headquarters is located in Singapore, with two satellite offices in Paris and Geneva.

To help its shipping customers adopt the cleanest available marine fuels today, TotalEnergies Marine Fuels has made key commitments to supply marine LNG, bioLNG and biofuels at strategic bunker hubs. As part of its ongoing work in various maritime coalitions and cross-industry R&D initiatives, TotalEnergies Marine Fuels is also helping to shape the production of decarbonized future fuels for shipping.

Its parent company, TotalEnergies, is a global integrated energy company that produces and markets energies: oil and biofuels, natural gas and green gases, renewables and electricity. Its ambition is to be a major player in the energy transition and to achieve carbon neutrality by 2050, together with society. With more than 100,000 employees, the Company is committed to provide as many people as possible with energy that is more reliable, affordable, and sustainable. Active in about 120 countries, TotalEnergies places sustainability at the heart of our strategy, projects, and operations.

Read more on [TotalEnergies.com](https://www.TotalEnergies.com) and on [Marinefuels.TotalEnergies.com](https://Marinefuels.TotalEnergies.com).

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