

IAPH World Ports Sustainability Awards 2026
Community Building Category

Flora Exhibition Hall

The Use of LNG Cold Energy to Connect People and Country

"What if the coldest point in an LNG terminal could grow tulips in the tropics — and bring an entire nation closer together?"



Submitted by:	PTTLNG Co., Ltd.
Project location:	Map Ta Phut Industrial Estate, Rayong, Thailand
Project status:	Ongoing
WPSP Theme:	Community Building
Date of Submission	20/05/2026
WPSP Focus Areas:	Communities Building Open Port Initiative Port Information & Training Centre Community & Social Engagement.

DIRECTORY

Section	Page
1. EXECUTIVE SUMMARY	3
2. THE THREE PILLARS OF OUR STORY	3
2.1 Breaking Down the Wall: From Hazardous Zone to Open Port	3
2.2 Cold Energy Innovation: A Living Learning Centre	4
2.3 Community Ownership: Shared Benefits for Local People	4
3. MEASURABLE IMPACT & KEY PERFORMANCE INDICATORS	5
3.1 MEASURABLE IMPACT: Visitor of Flora Exhibition Hall [2022 – 2026]	5
3.2 KEY PERFORMANCE INDICATORS: Solar Rooftop Project	6
3.3 KEY PERFORMANCE INDICATORS: Shared Benefits for Local People	7-8
4. UN SUSTAINABLE DEVELOPMENT GOALS ALIGNMENT	9
5. KEY ACTIVITIES & PROGRAMMES	10
6. PHOTO GALLERY	12
7. AWARDS, CERTIFICATIONS & RECOGNITION	13
8. PARTNERSHIPS & STAKEHOLDER COLLABORATION	13
9. FUTURE ROADMAP	14
10. APPENDIX	15
Reference source	15
Project Contact	15

1. EXECUTIVE SUMMARY

Flora Exhibition Hall is PTTLNG's landmark community initiative — a world-first application of **LNG Cold Energy** to cultivate temperate flowers, including tulips, inside a tropical LNG terminal. More than an engineering feat, the Hall transforms a high-security industrial zone into an open, welcoming landmark that educates, inspires, and economically empowers local communities and visitors from across Thailand.

By converting a perceived hazard — the extreme cold generated during LNG regasification — into a public asset, PTTLNG redefines what a 21st-century port can mean to society: not a wall between industry and people, but a **bridge**.

Today, PTTLNG aims to grow alongside not only our neighboring communities but the entire nation. We place a strong emphasis on the following focus areas,

- Education [To provide knowledge of LNG usage and safety control of Chemical Terminals among the communities]
- Public Health and medical services [Fund supporting through Hospital and Medical activities]
- Community Economic Growth [Tourist and work support]
- Environmental Sustainability [CSR activities, green building and MOU with local universities]

Since opening its doors to the public on November 6, 2023, the Flora Exhibition Hall has welcomed over 1 million visitors. This growing number extends far beyond tourism; it serves as a living classroom where students and the public gain invaluable insights into clean energy innovations and advanced agricultural techniques.

PTTLNG is committed to sustaining this bridge between industry and society. Through continuous, eco-friendly growth and the fostering of a vibrant learning ecosystem, we stand dedicated to empowering the public and equipping our youth with the essential knowledge to lead the nation's sustainable journey.

2. THE THREE PILLARS OF OUR STORY

Flora Exhibition Hall's impact is built on three interconnected storytelling pillars, each directly addressing the WPSP Community Building evaluation criteria:

2.1 Breaking Down the Wall: From Hazardous Zone to Open Port

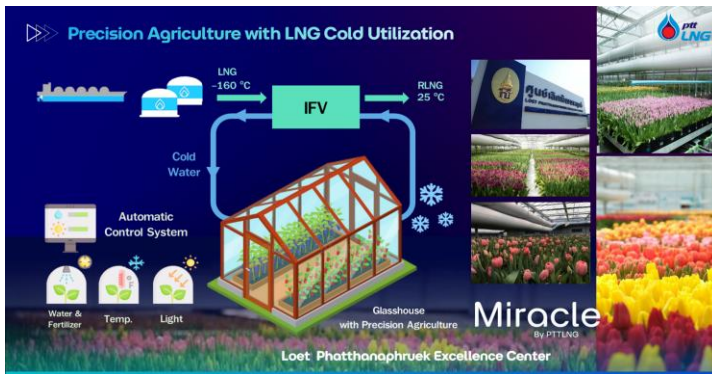
The Challenge:	How Flora Responded:
<p>LNG terminals and gas storage facilities are inherently hazardous areas — legally and operationally closed to the public. This physical barrier reinforces social distance, mistrust, and a sense of exclusion among neighbouring communities in Map Ta Phut, Rayong.</p>	<p>Through rigorous engineering design and safety innovation, PTTLNG created a dedicated public zone within the terminal perimeter. Flora Exhibition Hall is Thailand's first industrial-port landmark open to the general public — turning a 'keep out' boundary into an invitation.</p>



2. THE THREE PILLARS OF OUR STORY

2.2 Cold Energy Innovation: A Living Learning Centre

The Challenge:	How Flora Responded:
<p>In a tropical country like Thailand, growing cold-climate plants such as tulips requires enormous energy consumption through conventional refrigeration — making it environmentally costly and economically unviable for most communities and farmers.</p>	<p>Flora Exhibition Hall repurposes the natural Cold Energy (approximately -162 degrees C) released during LNG regasification to maintain a specialised growing environment. Students, farmers, and researchers observe and learn firsthand how industrial by-products can be converted into agricultural innovation.</p>



2.3 Community Ownership: Shared Benefits for Local People

The Challenge:	How Flora Responded:
<p>Industrial ports in developing regions often generate economic activity that bypasses local communities, creating a perception that large facilities benefit corporations and the national economy — but not the neighbors who live closest.</p>	<p>Flora Exhibition Hall is designed so that local communities are co-beneficiaries: local vendors sell community products to visitors, local residents are employed in facility operations, and school and university groups gain free educational access. The Hall's tourist footfall directly stimulates the local economy of Rayong province.</p>



3. MEASURABLE IMPACT & KEY PERFORMANCE INDICATORS

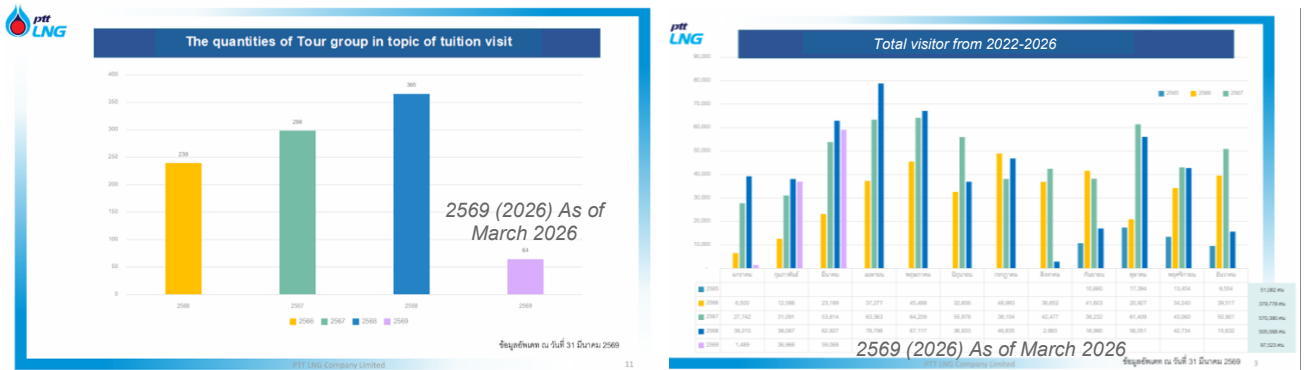
3.1 MEASURABLE IMPACT: Visitor of Flora Exhibition Hall [2022 – 2026]

The following indicators demonstrate the Hall's concrete, verifiable impact as of 2022 until 31 March 2026.

1,604,331 + Total Visitors (Cumulative)	100++ Schools & Universities Engaged	50++ Community CSR Activities Hosted since 2023
108,919 tons PTTLNG Carbon credits have accumulated since 2021.		

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2022									10,680	17,394	13,454	9,554	51,082 pax
2023	6,500	12,586	23,189	37,277	45,488	32,606	48,993	36,852	41,603	20,927	34,240	39,517	379,778 pax
2024	27,742	31,091	53,814	63,363	64,209	55,978	38,104	42,477	38,232	61,409	43,060	50,901	570,380 pax
2025	39,210	38,087	62,927	78,798	67,117	36,933	46,835	2,883	16,990	56,051	42,734	15,632	505,568 pax
2026	1,489	36,966	59,068										97,523 pax

Figure 3.1 Annual growth in educational tour groups and total visitor volume at the Flora Exhibition Hall (2022–2026).




Since the opening of the “Flora Exhibition Hall”, the number of educational tour groups has steadily increased each year. This sustained growth reflects a rising public interest in LNG terminal operations and innovative agricultural applications derived from cold energy utilization.


Socio-Economic Impacts on Local Communities through “Flora Exhibition Hall”.

- **Enhancing Local Livelihoods:** Generating sustainable employment opportunities and improving the quality of life for neighboring communities.
- **Boosting the Grassroots Economy:** Driving nationwide tourism to the area, thereby increasing direct revenue for local markets and grassroots vendors.
- **Empowering Youth:** Inspiring the next generation through hands-on exposure to clean energy innovations and advanced agricultural technology.
- **Establishing a Community Hub:** Serving as a central, accessible landmark for public engagement, knowledge sharing, and social gatherings.
- **Elevating Regional Identity:** Transforming Rayong province from a mere industrial transit corridor into a renowned destination for sustainable eco-tourism.

3.2 KEY PERFORMANCE INDICATORS: Solar Rooftop Project

WORKSHOP Reduced Carbon: 2,540 tCO2e Saved Energy: 5,083.640 kWh	CAR PARK ZONE 1+2+3 Reduced Carbon: 124,210 tCO2e Saved Energy: 248,477.470 kWh	CAR PARK 4 (FIRE STATION) Reduced Carbon: 7,000 tCO2e Saved Energy: 14,002.250 kWh	 GLASS HOUSE OPTIMIZATION Reduced Carbon: 86,250 tCO2e Saved Energy: 172,541.205 kWh
GUARD HOUSE 1 Reduced Carbon: 2,700 tCO2e Saved Energy: 5,378.600 kWh	GUARD HOUSE 2 (+ NURSERY) Reduced Carbon: 11,930 tCO2e Saved Energy: 23,885.600 kWh	PUBLIC WC Reduced Carbon: 3,190 tCO2e Saved Energy: 6,388.710 kWh	

Beyond the innovative glass dome of the Flora Exhibition Hall, PTTLNG has installed solar rooftops across visitor car parks and auxiliary buildings. This comprehensive integration significantly reduces operational energy consumption and minimizes the facility's overall carbon footprint.



Hospital Solar Rooftop

For real-time (dynamic) data

โรงพยาบาลตากแดง Pluak Daeng Hospital Reduced Carbon: 25,150 tCO2e Saved Energy: 50,304.480 kWh	โรงพยาบาลบ้านดง Ban Chang Hospital Reduced Carbon: 8,130 tCO2e Saved Energy: 16,270.600 kWh	โรงพยาบาลระยอง Rayong Hospital Reduced Carbon: 3,080 tCO2e Saved Energy: 6,171.030 kWh
โรงพยาบาลบ้านค่าย Bankhai Hospital Reduced Carbon: 9,420 tCO2e Saved Energy: 18,847.730 kWh	โรงพยาบาลตะกั่วทุ่ง Takuathung Hospital Reduced Carbon: 11,280 tCO2e Saved Energy: 22,583.720 kWh	โรงพยาบาลวังจันทร์ Wangchan Hospital Reduced Carbon: 11,900 tCO2e Saved Energy: 23,805.930 kWh
โรงพยาบาลคลองเขื่อน Klongkruen Hospital Reduced Carbon: 10,060 tCO2e Saved Energy: 20,119.330 kWh	โรงพยาบาลสมเด็จพระสังฆราชญาณสังวรเพื่อผู้สูงอายุ Somdej Phra Sangharaj Nganasamvara Geriatric Hospital Reduced Carbon: 11,770 tCO2e Saved Energy: 23,545.560 kWh	

Extending sustainable innovation beyond corporate boundaries, PTTLNG funds and constructs solar rooftop systems for regional hospitals across Rayong province and underserved remote areas. This community-focused initiative supports essential healthcare services while actively advancing regional carbon reduction goals.

To date (13th May 2026), these external hospital installations have collectively saved 181,648.38 kWh of energy and reduced carbon emissions by 90.79 tCO2e.

3.3 KEY PERFORMANCE INDICATORS: Shared Benefits for Local People

Expanding our impact not only on the Flora Exhibition Hall, PTTLNG drives sustainable community growth through strategic CSR investments, we actively invest in youth empowerment and public healthcare infrastructure across Rayong's communities.

NO.	Project	Area	Category	Region	Amount (Baht)
2022					
1.	Marine Habitat Development Project (Sea Fan) Year 5	Saeng Ngoen Beach Small Fishing Boat Group	Environment	East part of Thailand	200,000
2.	13th Annual Aquatic Animal Release Project	Kao Yod Small Fishing Boat Group	Environment	East part of Thailand	150,000
3.	Community Open House Program	25 communities within 5 km radius & 10 fishing groups	Stakeholder Engagement	East part of Thailand	240,000
4.	Solar Rooftop Installation (40 kWp)	Ban Chang Hospital, Rayong	Environment	East part of Thailand	2,000,000
2023					
1.	Marine Habitat Development Project Annual year 6	Saeng Ngoen Beach Small Fishing Boat Group	Environment	East part of Thailand	200,000
2.	14th Annual Aquatic Animal Release Project	Ban Phayun Small Fishing Boat Group	Environment	East part of Thailand	165,000
3.	Solar Rooftop Installation (40 kWp)	Rayong Hospital, Rayong	Environment	East part of Thailand	2,000,000
4.	Solar Rooftop Installation (40 kWp)	Takua Thung Hospital, Phang Nga	Environment	Southern Thailand	2,000,000
5.	Community Open House Program	25 communities within 5 km radius & 10 fishing groups	Stakeholder Engagement	East part of Thailand	300,000
6.	School Open House Program	4 Local Schools (Ban Ta Kuan, Wat Krok Yai Cha, Ban Payoon)	Stakeholder Engagement	East part of Thailand	100,000

3.3 KEY PERFORMANCE INDICATORS: Shared Benefits for Local People

NO.	Project	Area	Category	Region	Amount (Baht)
2024					
1.	Marine Habitat Development Project Years 7	Saeng Ngoen Beach Small Fishing Boat Group	Environment	East part of Thailand	450,000
2.	15th Annual Aquatic Animal Release Project	Pak Klong Ta Kuan Small Fishing Boat Group	Environment	East part of Thailand	170,000
3.	Solar Rooftop Installation (60 kWp)	Ban Khai Hospital, Rayong	Environment	East part of Thailand	2,000,000
4.	Solar Rooftop Installation (40 kWp)	Khlong Khuean Hospital, Chachoengsao	Environment	East part of Thailand	2,000,000
5.	Senior Citizen Open House Program	Map Ta Phut Municipality Senior Club	Stakeholder Engagement	East part of Thailand	200,000
6.	School Open House Program	5 Local Schools (Wat Prachummit, Wat Chak Luk Ya, etc.)	Stakeholder Engagement	East part of Thailand	100,000
7.	Makuted Noi' Youth Guide Initiative	Ban Nong Fab School	Education	East part of Thailand	40,000
2025					
1.	16th Annual Aquatic Animal Release Project	Phala Beach Small Fishing Boat Group	Environment	East part of Thailand	150,000
2.	Solar Rooftop Installation (40 kWp)	Wang Chan Hospital, Rayong	Environment	East part of Thailand	2,000,000
3.	Solar Rooftop Installation (40 kWp)	Somdet Phra Sangkharat Hospital, Chonburi	Environment	East part of Thailand	2,000,000
4.	Senior Citizen Open House Program	Map Ta Phut Municipality Senior Club	Stakeholder Engagement	East part of Thailand	157,000
5.	Makuted Noi' Youth Guide (English Edition)	Map Ta Phut City Municipality School	Education	East part of Thailand	60,000
6.	LNG Winter Garden Challenge (Cultivating Dreams with Cold Energy)	3 High Schools (Map Ta Phut Phanpittayakharn, etc.)	Education	East part of Thailand	92,000

4. UN SUSTAINABLE DEVELOPMENT GOALS ALIGNMENT

SDG	Goal	Flora Exhibition Hall Contribution
SDG 3	Good Health and Well-being	Beyond a community hub, PTTLNG utilizes the Flora Exhibition Hall as a dynamic space for social impact. By uniting people through annual blood charity and a landmark “Tulip Run” we translate responsibility into human connection. Ultimately, we aspire to inspire the next generation by building a compassionate heritage of mutual support.
SDG 4	Quality Education	LNG Cold Energy Learning Centre for students, teachers, and farmers; structured STEM field trips; agricultural knowledge transfer programmes.
SDG 7	Clean Energy	Live demonstration that industrial cold energy — a by-product of LNG regasification — can be repurposed productively, reducing waste and raising energy literacy
SDG 8	Decent Work & Economic Growth	Direct local employment in Hall operations; income generation for local vendors; tourism-linked economic activity in Rayong province.
SDG 10	Reduced Inequalities	PTTLNG actively bridges socio-economic divides by expanding clean energy infrastructure directly into public healthcare. Through the strategic provision of Solar Rooftop systems to regional and remote hospitals, we systematically alleviate operational burdens, enabling medical facilities to reallocate critical funds toward enhancing equal access to quality healthcare for underserved grassroots communities.
SDG 11	Sustainable Cities & Communities	Open Port Initiative integrating industrial infrastructure with community life; green landscaped public space within port boundary.
SDG 13	Climate Action	Public awareness on energy transition and LNG's role as a bridge fuel; PTTLNG's broader decarbonization commitment communicated directly to communities.
SDG 17	Partnerships for the Goals	<p>Government</p> <ul style="list-style-type: none"> -Ban Chang Hospital, -Pluak Daeng Hospital, -Rayong Hospital, -Bankhai Hospital, -Wangchan Hospital, -Somdej Phra Sangharaj Nganasamvara Geriatric Hospital, -Takuathung Hospital, -Klongkluen Hospital. -Office of the Royal Development Projects Board <p>University</p> <ul style="list-style-type: none"> -Kasetsart University, -Mahidol University. <p>Private Sector</p> <ul style="list-style-type: none"> -(Local) Ban phla fishing communities, -(Local) Ban chang fishing communities.

5. KEY ACTIVITIES & PROGRAMMES

● Open Port Public Access — Breaking the Barrier

Flora Exhibition Hall hosts structured public visiting days, guided industrial tours, and open-house events where members of the public can enter the terminal safely and witness LNG operations firsthand.



Fig. 5.1 The schedule of opening and close of "Flora Exhibition Hall" which announcing in public.



Fig. 5.2 PTTLNG Provided the booking channel to public visitor to book the schedule in visiting "Flora Exhibition Hall".



Fig. 5.3 Accessible facilities provided by PTTLNG for international visitors and persons with disabilities.

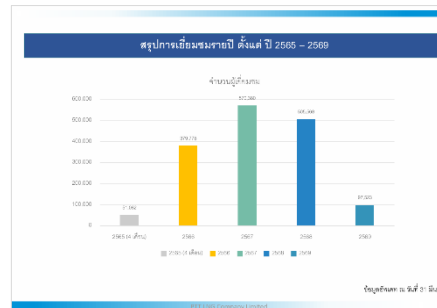


Fig. 5.4 visitor demographics at "Flora Exhibition Hall" since 2022-2026.



Fig. 5.5 Activities and Facilities inside the PTTLNG's "Flora Exhibition Hall".

5. KEY ACTIVITIES & PROGRAMMES

● Cold Energy Agricultural Learning Centre

The Hall's Cold Energy zone enables the cultivation of tulips and other temperate flora in Thailand's tropical climate. University research teams and agricultural extension officers use the facility to develop and test cold-chain horticultural techniques that can be shared with Thai farmers.

- Revolutionizing Tropical Agriculture: Harnessing LNG cold energy to successfully cultivate temperate flowers including [Tulips / Daffodils / Hydrangeas / Peonies] year-round, establishing a new paradigm for agricultural innovation in tropical country such as Thailand. [2023–2026]
- By collaborating with Mahidol University to upcycle fallen tulip petals into premium moisturizing hand creams. This initiative actively minimizes agricultural bio-waste while generating high-value, innovative products for the local economy. [2025]

● Community CSR & Cultural Engagement

Committed to fostering sustainable shared value, PTTLNG actively integrates corporate social responsibility with grassroots empowerment. Through targeted community initiatives and environmental stewardship, we drive robust regional development while demonstrably enhancing local livelihoods.

- Hosting Annual Blood Drives: Partnering directly with the Thai Red Cross Society to mobilize life-saving blood donations from staff and local communities. [2023–2026]
- Enriching Marine Resources: Executing regular aquatic animal release programs to systematically restore local marine populations and support coastal ecosystems. [2022–2026]
- Developing Marine Habitats: Pioneering the cultivation of sea fans (Gorgonians) to establish thriving artificial habitats and enhance local marine biodiversity. [2022–2025]
- Advancing Coastal Conservation: Organizing collaborative beach clean-up initiatives alongside local villages to mitigate marine litter and protect shorelines. [2024–2025]
- Empowering Public Healthcare: Funding and installing Solar Rooftop systems across regional and remote hospitals to sustainably reduce institutional utility costs. [2022–2025]
- Uniting Communities Through Charity: Organizing the landmark “**Charity Tulip Run**” charity event to promote public wellness and strengthen community relations. [2024]

● Local Vendor & Economic Empowerment Programs.

Local artisans, food producers, and community enterprises are given dedicated space within the Hall's visitor area to sell products to the growing stream of tourists — directly linking port visitor numbers to community income.

- Partnering with “Sampalung” Social Enterprise: Collaborating with the PTT Group's initiative to establish pop-up stores that promote locally crafted and upcycled products to a broader market. [2025-2026]
- Boosting Vendor Revenue at Major Events: Integrating local vendors into landmark events like the “Charity Tulip Run”, providing them exclusive avenues to sell food, beverages, and souvenirs to thousands of participants. [2024]
- Stimulating the Local Tourism Economy: Functioning as a vibrant public hub that channels substantial tourist traffic and economic spending directly into neighboring subdistricts, such as Nong Fab and Ban Chang.
- Supporting Seasonal Agricultural Markets: PTTLNG volunteer-driven CSR campaigns to market and sell local seasonal fruits, ensuring stable income streams for regional farmers. [2024-2026]

● Youth Education & Career Pathways

Beyond its touristic functions, “Flora Exhibition Hall” serves as a dynamic educational ecosystem. It offers comprehensive internship programs and scholar funds for university students nationwide and cultivates community youth leadership through hands-on volunteer initiatives.

- “Future Leader” & Local Talent Development: Hosting interns from diverse disciplines ranging from Engineering to Humanities while providing dedicated scholar fund to local students to ensure equitable access to higher education and foster long-term professional growth within the community. [2023-2026]
- “Makuted Noi” Youth Guide Initiative: Empowering local children by training them as volunteer tour guides, actively building their self-confidence, communication skills, and inspiring future career aspirations. [2023-2025]

6. PHOTO GALLERY

Figure 6. Example activities which use Flora Exhibition Hall as a community space.



Sarn Palung pop-up Store, the store which uses local upcycling products.



Blood donation 2025 at Flora Exhibition Hall with Red Cross Society, which can reach blood donate to 48,000 cc



PTTLNG partnered with the Ban Phla fishing community to release over 1 million marine animals back into the sea.



Flora Exhibition Hall open Auditorium for tuition of LNG power using for primary school student



Flora Exhibition Hall tuition how to utilize cold energy to grow tulip flower to Faculty of Agricultural Technology 'Kasetsart University'



Flora Exhibition Hall has been arranged as a target point of must visit to a "Labor Union of state enterprise"



PTTLNG, using the knowledge in building the Solar cell rooftop to local hospital and MOU hospital.



PTTLNG using Flora Exhibition Hall, the LNG Terminal as a community's event of "Charity Tulip Run" which can accumulate to 500,000 THB in donation to hospital.



By collaborating with Mahidol University to upcycle fallen tulip petals into premium moisturizing hand creams "MIREYA"



Under the project of "Makuted Noi", Empowering local children by training them as volunteer tour guides at Flora Exhibition Hall.



PTTLNG Awarding 74 academic scholarships to local primary and secondary students, actively alleviating financial barriers for community families and securing equitable educational access for the next generation.



PTTLNG has been arranged an annual activity of Marine Habitat Development Project with local communities

7. AWARDS, CERTIFICATIONS & RECOGNITION

PTTLNG and the Flora Exhibition Hall project have received the following recognition, validating its impact and innovative approach:

Year	Award / Certification	Awarding Body	Area
2023	TREES Platinum (Thai's Rating of Energy and Environmental Sustainability).	Thai Green Building Institute	[Community / Environment]
2024	GPAS (Green Port Award System).	The Council of the APEC Port Service Network (APSN)	[CSR / Community / Environment]
2025	CSR-DIW Continuous 2025. (13 th years)	Department of Industrial Works	[CSR / Community]
2025	Green Office, (G-Gold).	Department of Climate Change and Environment	[Environment]
2025	ECO Innovation award certificate.	Industrial Estate Authority of Thailand	[CSR / Community /Safety / Environment]
2025	Global Performance Excellence Award, Best in Class.	Asia Pacific Quality Organization (APQO)	[Quality/Safety]

8. PARTNERSHIPS & STAKEHOLDER COLLABORATION

Flora Exhibition Hall's success depends on genuine multi-stakeholder collaboration — a key evaluation criterion for the IAPH jury:

Stakeholder Type	Partner(s)	Contribution to Project
Government / Regulator	<ol style="list-style-type: none"> Office of the Royal Development Projects Board. Bankhai Hospital. Rayong Hospital. Pluak Daeng Hospital. Ban Chang Hospital. Somdej Phra Sangharaj Nganasamvara Geriatric Hospital. Klongkluen Hospital. Takuathung Hospital. Wangchan Hospital. 	<ol style="list-style-type: none"> Cold Energy utilization to cultivate temperate flora; Open Port facilitation for community access to the LNG terminal. Solar-Rooftop for hospital
Universities & Research	<ol style="list-style-type: none"> Kasetsart University Mahidol University 	<ol style="list-style-type: none"> Cold Energy salmon aquaculture research (Kasetsart University); Upcycling of tulip petals into moisturising hand cream "MIREYA" (Mahidol University, 2025).
Schools & Education	<p>Primary & Secondary schools in Rayong and nationwide (100+ institutions engaged since 2023); Labour Union of State Enterprise member schools</p>	<p>Structured LNG educational tours and STEM field trips to Flora Exhibition Hall; "Makuted Noi" Youth Guide Programme training local children as volunteer tour guides (2023–2025); 74 academic scholarships awarded to local primary and secondary students to ensure equitable access to higher education (2023–2026)</p>

<p>Local Community Orgs.</p>	<p>Ban Phla Fishing Community; Ban Chang Fishing Community; Thai Red Cross Society; Sarnpalung Social Enterprise (PTT Group initiative); Local vendors in Nong Fab and Ban Chang subdistricts</p>	<p>Annual marine animal release programme restoring local fish populations (2022–2026); sea fan (Gorgonian) cultivation for marine habitat development (2022–2025); beach clean-up drives with local villages (2024–2025); blood donation drives via Thai Red Cross (48,000 cc collected, 2025); Sarnpalung pop-up vendor marketplace for locally crafted and upcycled products (2025–2026); “Charity Tulip Run” raising 500,000 THB for hospitals (2024); seasonal agricultural market support for local farmers (2024–2026)</p>
<p>Industry Partners</p>	<p>PTT Group (parent company & Sarnpalung Social Enterprise initiative)</p>	<p>PTT Group: corporate strategic alignment, funding, and roll-out of Sarnpalung pop-up marketplace providing platform for local upcycled products (2025–2026); group-level support for Solar Rooftop hospital programme and Cold Energy infrastructure investment</p>

9. FUTURE ROADMAP

PTTLNG’s ambition for Flora Exhibition Hall continues to grow:

- ▶ **Near-term:** Expand Cold Energy growing area; add new crop varieties and include to be a place for community’s hall events.
- ▶ **Medium-term:** Replicate the Cold Energy agriculture model with partner ports in ASEAN; publish open-source knowledge guide for farmers.
- ▶ **Long-term:** Establish Flora Hall as a regional ASEAN port-community hub; integrate with national net-zero energy education strategy.

The vision of PTTLNG’s director, *“Message from the President”*

PTTLNG’s main mission is to provide port services — specifically the storage and regasification of liquefied natural gas into natural gas through the national pipeline system, which is the first of its kind in Southeast Asia. The energy derived from this natural gas is utilised to generate electricity and deliver benefits to various industries and sectors across Thailand.

PTTLNG was established in 2004 and commenced commercial operations in 2011 as the operator of Thailand’s first LNG receiving and regasification terminal, located in Map Ta Phut Industrial Estate, Mueang District, Rayong Province. PTTLNG currently operates two LNG terminals.

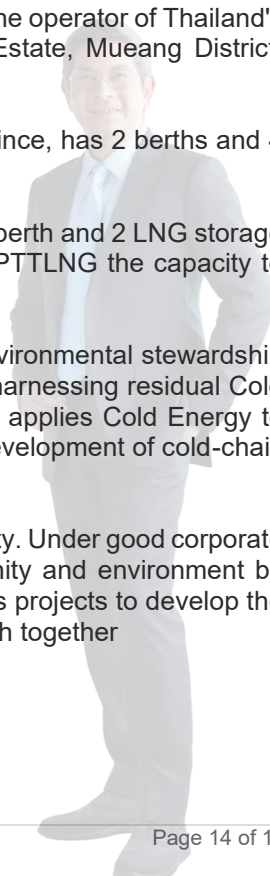
Map Ta Phut LNG Terminal 1, located in Map Ta Phut Industrial Estate, Rayong Province, has 2 berths and 4 LNG storage tanks, capable of handling 11.5 million tonnes of LNG per year.

Map Ta Phut LNG Terminal 2, located in Ban Nong Fab area, Rayong Province, has 1 berth and 2 LNG storage tanks with a capacity of 7.5 million tonnes per year. Combined, both terminals give PTTLNG the capacity to handle up to 19 million tonnes of LNG imports per year.

PTTLNG has evolved into a world-class Green Terminal through a commitment to environmental stewardship and energy conservation — reducing electricity consumption and CO2 emissions by harnessing residual Cold Energy to power cooling systems and support solar cell development. PTTLNG also applies Cold Energy to advance the agricultural sector, including the cultivation of temperate crops and the development of cold-chain storage systems for agricultural produce.

In addition, we are committed to conducting business with the highest standards of safety. Under good corporate governance, ethics, morality in operation, including responsibility to society community and environment by joining forces with PTT Group, Rayong Province, supporting and implementing various projects to develop the community in terms of environment, education and quality of life. for sustainable growth together

Mr. Visarn Keoprasom
Acting President.



10. APPENDIX

Reference source

Home page of PTTLNG.

- <https://www.pttln.com/Home/Index>
- <https://www.youtube.com/@pttln>
- [Miracle of Natural page \[Flora Exhibition Hall\]](#)
- [Visitor Site](#)

Reference Video.

- [PTTLNG Introduction](#)
- [Flora Exhibition Hall video](#)

Activities and Result monitoring.

- [PTTLNG - GHG Monitoring](#)
- [Hospital Solar Rooftop monitoring](#)
- [Building Solar Rooftop monitoring](#)
- [PTTLNG Internship](#)
- [17th Annual Aquatic Animal Release Project 2026](#)
- [PTTLNG Activities update](#)
- [Tulip Charity Run](#)
- [PTTLNG Awards](#)

"Flora Exhibition Hall proves that the coldest point in an industrial terminal can become the warmest place in a community — a space where energy, nature, and people grow together."

Project Contact	<p>Name & Title [Isarah Phikunphon, Berth Master] [Nawi Thamniam, Port Management Officer]</p> <p>Organization PTTLNG Co., Ltd.</p> <p>Email: [isarah.p@pttln.com] [nawi.t@pttln.com] [pttln-marine@pttln.com]</p> <p>Phone: [+66 93 734 7185 (Mr.Nawi Thamniam)]</p> <p>Website: [www.pttln.com]</p>
------------------------	--