### Petrochemical Corporation of Singapore (Private) Limited



# **Annual PCS-Contractors HSE Meeting 2023**

### **Review of HSE Performance for 2022**

Ms Tan Peck Luan
Senior HSE Officer

26 January 2023



# **Review of HSE Performance**



- 1 Safety & Environmental Performance
  - 2 Behaviour Based Safety (BBS) Activities





3 Safety Performance Awards



- 4 WSHC bizSAFE Programme
- 5 HSE Achievements in 2022

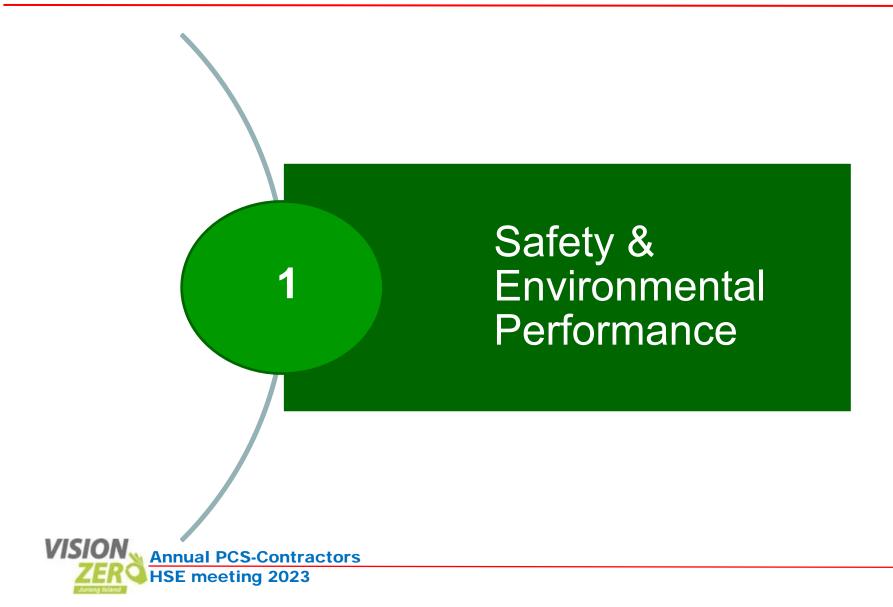


6 Next Safety Performance Target



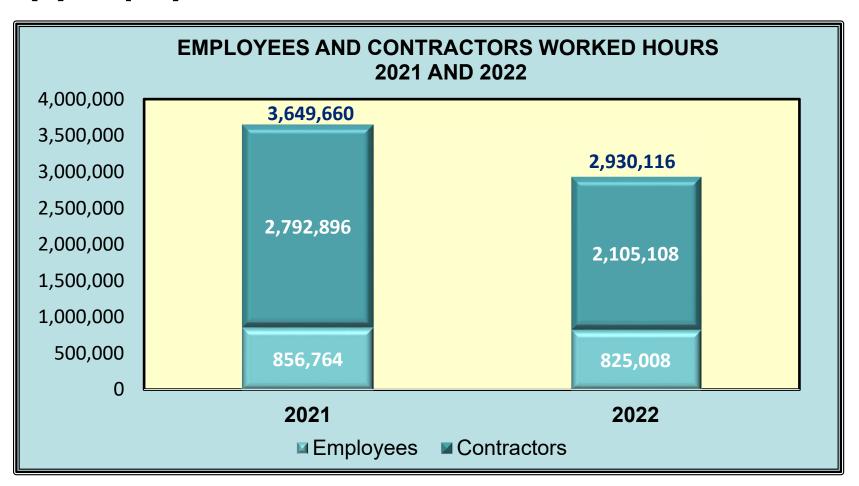
# **Review of HSE Performance**





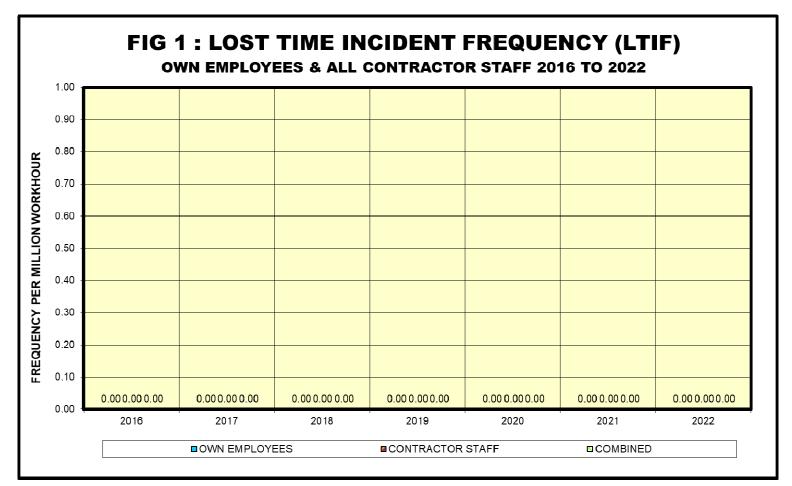


### (a) Employees and Contractors Worked Hours in 2022



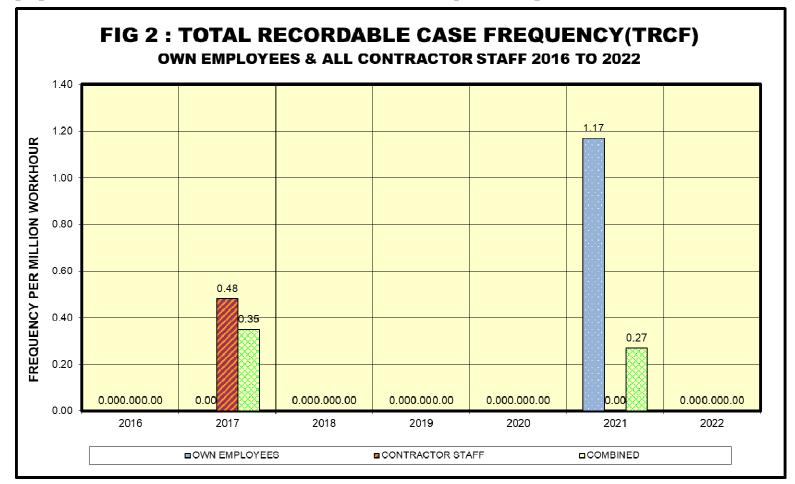


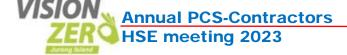
### (b) Lost Time Incident Frequency [LTIF]





### (c) Total Recordable Case Frequency [TRCF]







### (d) First Aid Case

Date : 14 Oct 2022

Venue : QC Laboratory

Nature : Cut on fingers by glassware while trying

to salvage a broken glass funnel





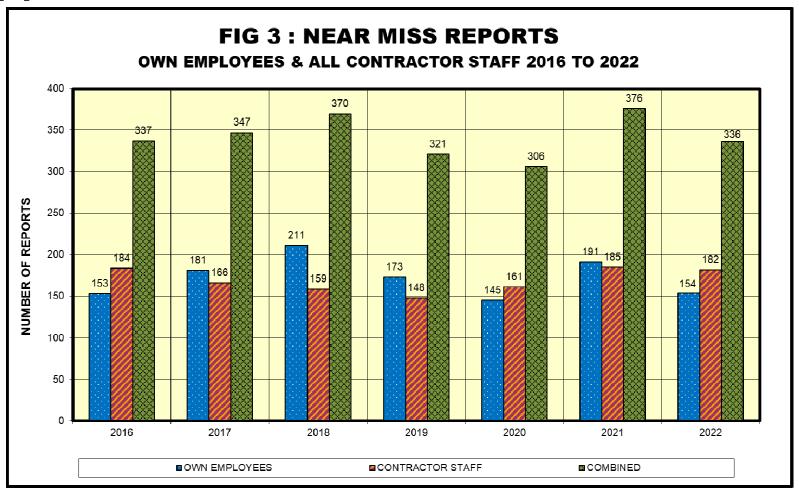
### (d) First Aid Case

#### Lessons learnt:

- Inspect all equipment to be free of defects and in good operable condition before use
- Dispose chipped / broken glassware immediately
- Adhere to Safe Work Procedures
- Exercise vigilance when handling glassware
- Reinforce safe glassware handling and Pre-Post Job inspection

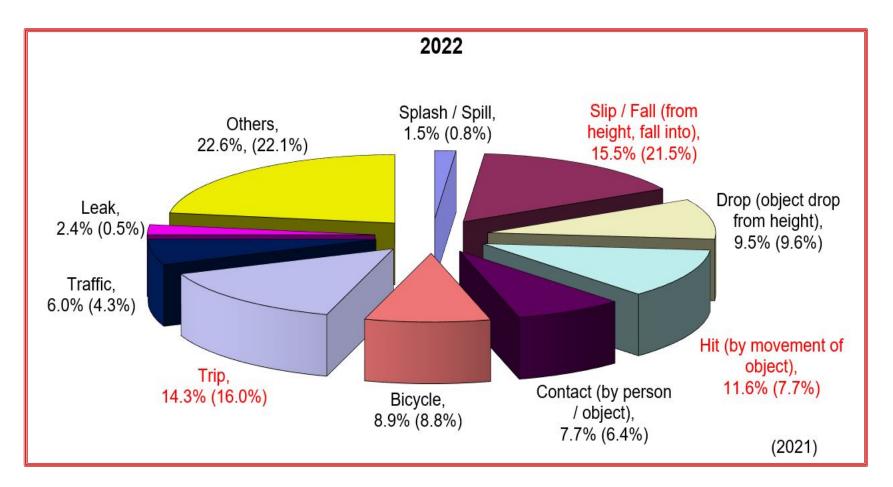


### (e) Near Miss Incidents



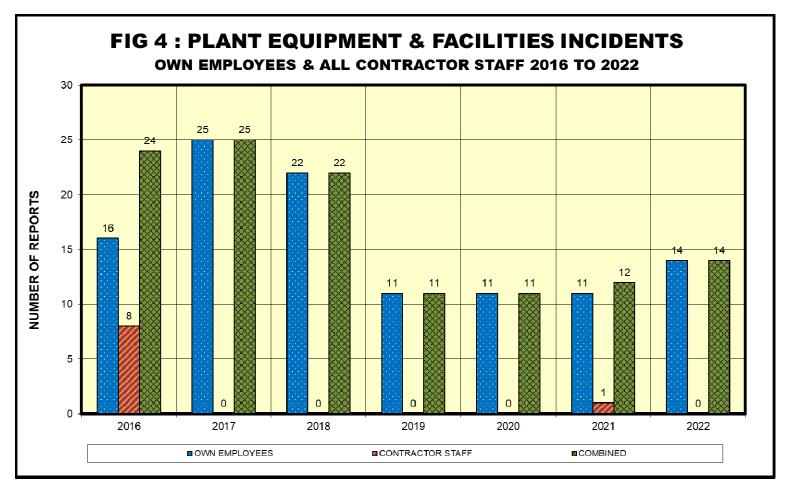


### (e) Nature of Near Miss Incidents



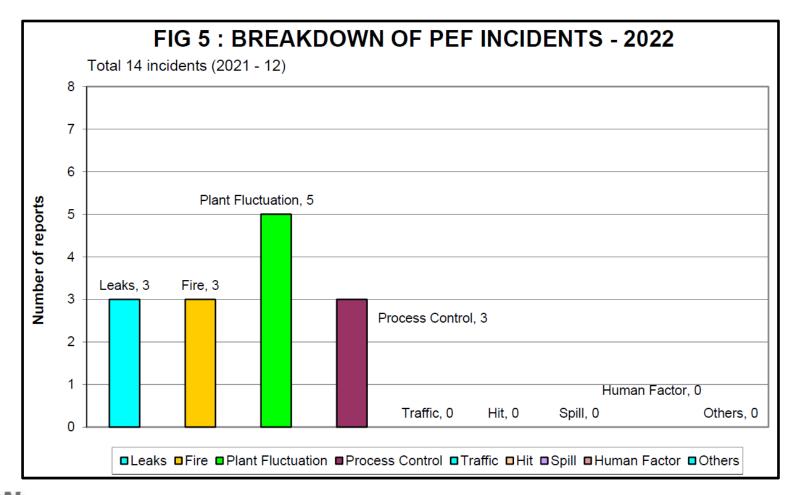


### (f) Plant Equipment / Facilities Incidents [PEF]



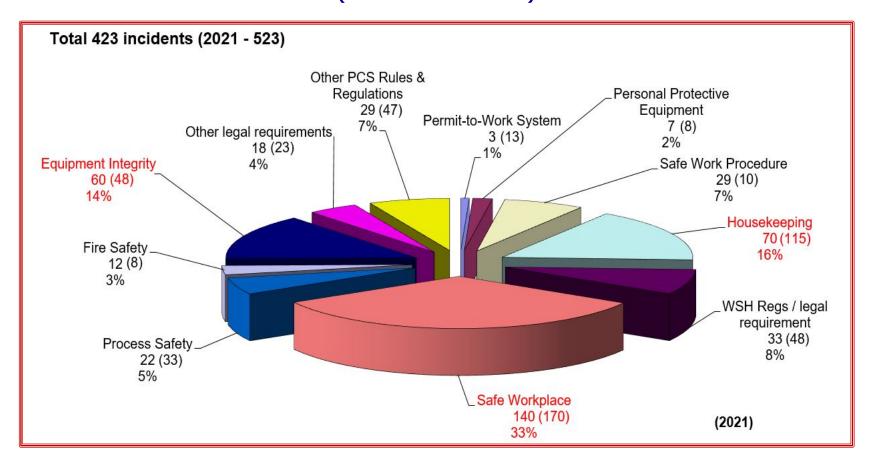


### (f) Breakdown of PEF incidents





# (g) Nature of Observations/Violation/Breaches - 2022 (HSEO site visit)





### (h) Environmental Performance

- No major environmental incident in PCS
- Meeting National Environment Agency limits on air emissions and trade effluent discharge





# **Review of HSE Performance**





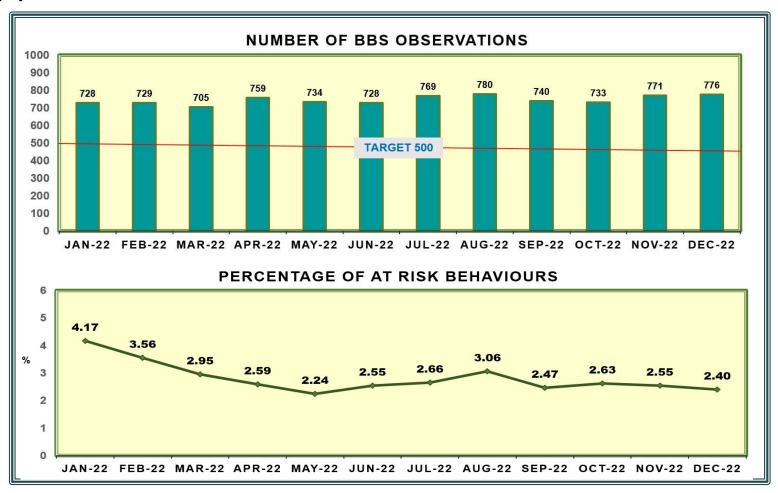




- a. BBS Observations
- b. Nature Of Behaviour Based Safety Observation
- c. Monthly Exemplary Safe Staff / Worker Role Model
- d. BBS TRUsT Champion Award

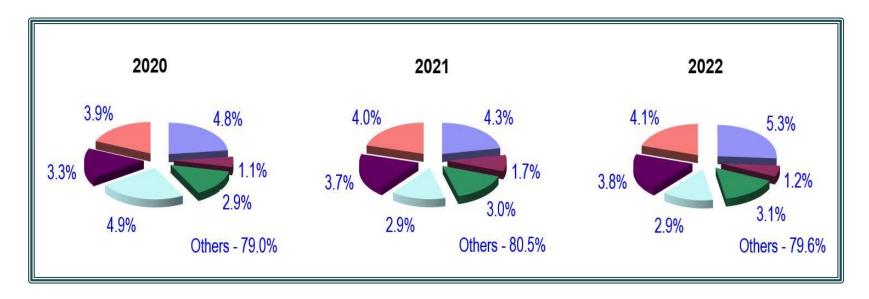


### (a) BBS Observations





### (b) Nature Of Behaviour Based Safety Observation









### (c) Monthly Exemplary Safe Staff / Worker Role Models

- Started since June 2015
- Each month, a PCS staff and a contractor worker will be selected by the BBS Steering Committee for demonstrating safe and good work behaviour and practices
- These role models will each receive a token appreciation of S\$50 and acknowledged accordingly on our notice boards and LCD media displays



### (c) Monthly Exemplary Safe Staff / Worker Role Models



#### BBS EXEMPLARY SAFE STAFF / WORKER **ROLE MODEL**



MR YEO WEI HOW **TECHNICIAN OLEFINI** 

When I enter the liquid berth for logging / ship berthing, I will put on a life jacket and ensure that I am not standing in the direction of the tightened mooring ropes in case of ropes snapped.

[CBI 1.1: Line of Fire & CBI 5.5: Fall Protection

#### **DECEMBER 2022**

**Congratulations to** our Role Models for their positive behaviour and safe work attitude demonstrated!

Keep up the good work!







MR JOGRAJ SINGH INSULATOR SUPERVISOR FOSTER ASIA PACIFIC PTE LTD

As an insulation worker, it is my responsibility to wear leather gloves to prevent possible hand injuries. I will also ensure my leather gloves are in good condition for optimised protection.

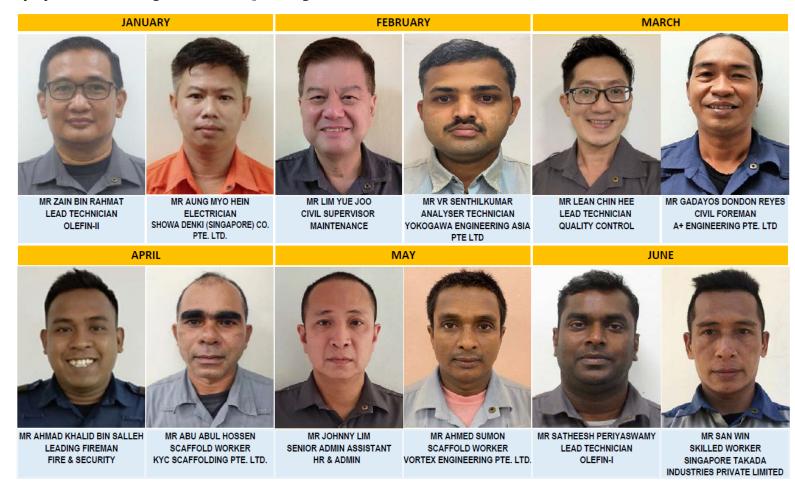
[CBI 5.4: Hand, Arm & Body Protection]







### (c) Monthly Exemplary Safe Staff / Worker Role Models







### (c) Monthly Exemplary Safe Staff / Worker Role Models



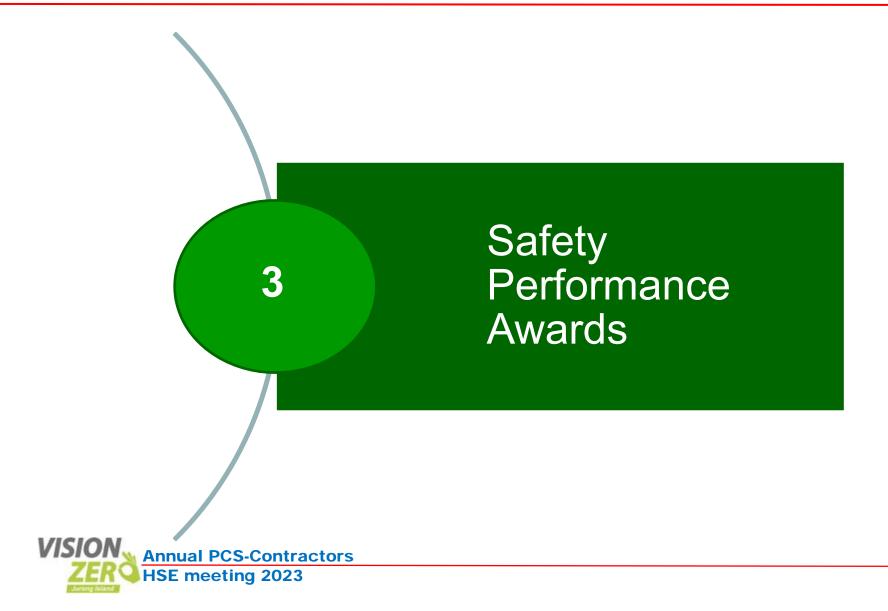


### (d) BBS TRUsT Champion Award



# **Review of HSE Performance**







- (a) Combined PCS Employees / Contractors Set Target (CPST)
- Award is given when PCS employees and contractors meet the <u>Total Recordable Case</u> <u>Frequency</u> set and maintain a <u>Lost Time Incident free</u> period for the <u>quarter</u>
- PCS Employees and Contractors Achieved the Quarterly Set Target for all <u>4 Quarters</u> in 2022
- Contractor workers received vouchers totalling \$\$17,500 for the achievement in each quarter





- (b) Contractors Safety Set Target (CSST)
  - Award is given to the Direct Contractor Company which achieved a <u>One Year Lost</u> <u>Time Incident Free</u> record while working in PCS
  - ➤ Bonus Award given for achieving consecutive 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup>, 9<sup>th</sup>, 12<sup>th</sup> and every 3-yearly thereafter
  - Commemorative plaques and monetary rewards given for the bonus award



### **Contractor Companies awarded Commemorative Certificate for 2022**

S/N	Company	S/N	Company
1	Petrochemical Complex Contractors Association	15	Long Wei Construction & Engineering Works Pte. Ltd.
2	A+ Engineering Pte. Ltd.	16	Meisei International Private Limited
3	AETOS Security Management Pte. Ltd.	17	Prowess Engineering Design and Services
4	Archiplast Engrg Services & Modelling	18	PSM Aircon & Engineering Pte. Ltd.
5	Asahi Kokusai Techneion Singapore Pte. Ltd.	19	Sankyu (Singapore) Pte Ltd
6	ComfortDelGro Bus Pte. Ltd.	20	Setsco Services Pte Ltd
7	Foster Asia Pacific Pte Ltd	21	Showa Denki (Singapore) Co. Pte. Ltd.
8	Hai Leck Engineering (Private) Limited	22	Singapore Takada Industries Private Limited
9	Holcam Construction Pte Ltd	23	The Wok People Pte. Ltd.
10	Ikari Services Pte Ltd	24	Trident Hydro Jetting Pte Ltd
11	Kurihara Kogyo Co., Ltd.	25	VinDes Engineering Pte Ltd
12	KYC Scaffolding Pte. Ltd.	26	Vortex Engineering Pte. Ltd.
13	Lai Woon Process Pte. Ltd.	27	Weishen Industrial Services Pte Ltd
14	Loh Kim Chay Marine Service	28	Yokogawa Engineering Asia Pte Ltd



# **Contractor Companies awarded Commemorative Certificate for 2022**







### **Contractor Companies awarded CSST Bonus Award for 2022**

	ASAHI KOKUSAI TECHNEION SINGAPORE PTE. LTD.	FOSTER ASIA PACIFIC PTE LTD	KYC SCAFFOLDING PTE. LTD.	
Award	GOLD	GOLD	GOLD	
Category	1	1	1	
Years worked without LTI	30	18	18	
Cheque amount	\$1000	\$1000	\$1000	

Category 1 – monthly workhour exceeding 6,000 hours

Category 2 – monthly workhour exceeding 1,000 hours but less than 6,000 hours

Category 3 – monthly workhour less than 1,000 hours







### **Contractor Companies awarded CSST Bonus Award for 2022**

	SANKYU (SINGAPORE) PTE LTD	TRIDENT HYDRO JETTING PTE LTD	VINDES ENGINEERING PTE LTD	A+ ENGINEERING PTE. LTD.
Award	GOLD	GOLD	GOLD	SILVER
Category	1	2	1	1
Years worked without LTI	18	18	18	7
Cheque amount	\$1000	\$500	\$1000	\$500

Category 1 – monthly workhour exceeding 6,000 hours

Category 2 – monthly workhour exceeding 1,000 hours but less than 6,000 hours

Category 3 – monthly workhour less than 1,000 hours



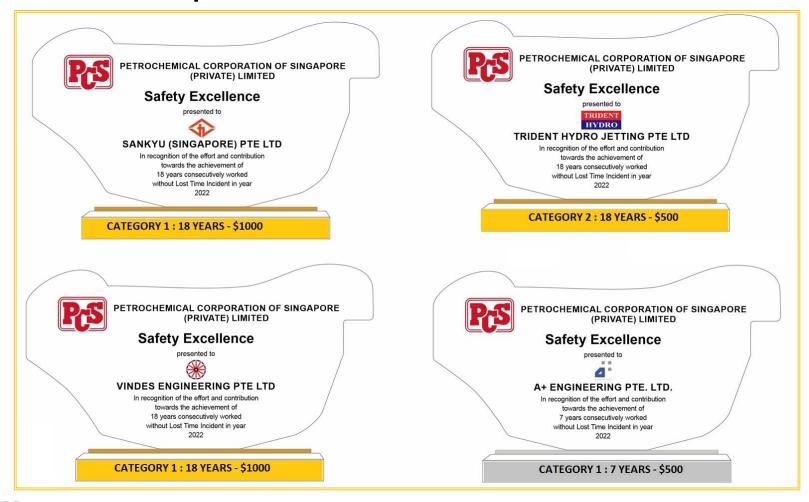


### **Contractor Companies awarded CSST Bonus Award for 2022**



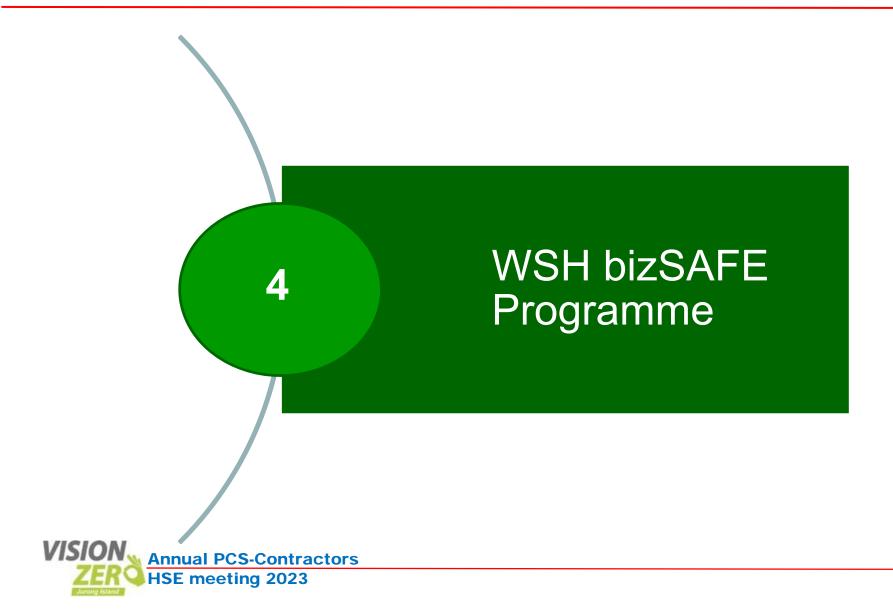


#### **Contractor Companies awarded CSST Bonus Award for 2022**



# **Review of HSE Performance**





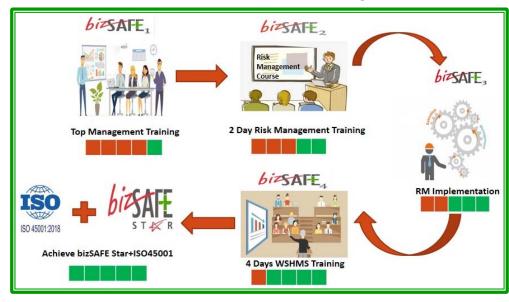






- PCS was one of the pioneering companies to become bizSAFE Mentor since 2011
- PCS status as bizSAFE Mentor has been successfully renewed until 9 Nov 2024

#### bizSAFE 5-Steps Programme



- All contractor companies to be certified to at least bizSAFE Level 3 before allowed to work in PCS
- Most of our in-house contractor companies are at Level Star, while four of them are bizSAFE Partners



# 4. WSHC **bizSAFE** Programme



	PCS Maintenance Contractors bizSAFE Certification							
S/N	Company	bizSAFE level	Expiry date	S/N	Company	bizSAFE level	Expiry date	
1	Hai Leck Engineering (Private) Limited	Partner	25 Sep 2024	11	Meisei International Private Limited	Level Star	04 Aug 2025	
2	Kurihara Kogyo Co., Ltd.	Partner	13 Apr 2024	12	Prowess Engineering Design and Services	Level Star	20 Jun 2025	
3	Sankyu (Singapore) Pte Ltd	Partner	11 Jul 2023	13	PSM Aircon & Engineering Pte. Ltd.	Level Star	07 Nov 2024	
4	Trident Hydro Jetting Pte Ltd	Partner	11 Mar 2023	14	Setsco Services Pte Ltd	Level Star	16 Dec 2023	
5	A+ Engineering Pte. Ltd.	Level Star	02 May 2024	15	Showa Denki (Singapore) Co. Pte. Ltd.	Level Star	25 Oct 2024	
6	Asahi Kokusai Techneion Singapore Pte. Ltd.	Level Star	12 Sep 2023	16	Singapore Takada Industries Private Limited	Level Star	22 Feb 2023	
7	Foster Asia Pacific Pte Ltd	Level Star	30 Nov 2024	17	VinDes Engineering Pte Ltd	Level star	10 May 2025	
8	Holcam Construction Pte Ltd	Level Star	18 Aug 2025	18	Vortex Engineering Pte Ltd	Level Star	01 Jun 2023	
9	KYC Scaffolding Pte. Ltd.	Level Star	06 Dec 2025	19	Yokogawa Engineering Asia Pte Ltd	Level Star	16 Jun 2023	
10	Lai Woon Process Pte Ltd	Level Star	20 Sep 2023					

<sup>\*</sup> PCS Maintenance Sub-Contractors also must be at least bizSAFE level 3 Certification.





	Service Contractors bizSAFE Certification						
S/N	Company	Function in-charge	bizSAFE level	Expiry date			
1	AETOS Security Management Pte. Ltd.	Fire & Security	Level Star	10 Mar 2023			
2	Archiplast Engrg Services & Modelling	Engineering	Level Star	10 Feb 2023			
3	ComfortDelGro Bus Pte. Ltd.	HR & Admin	Level Star	07 Mar 2024			
4	Ikari Services Pte Ltd	HR & Admin	Level Star	10 Dec 2025			
5	Loh Kim Chay Marine Service	Olefin-I	Level Star	08 Aug 2024			
6	Long Wei Construction & Engineering Works Pte. Ltd.	Engineering	Level Star	14 Jan 2026			
7	The Wok People Pte. Ltd.	HR & Admin	Level Star	14 Feb 2025			
8	Weishen Industrial Services Pte Ltd	HR & Admin	Level Star	29 Dec 2023			

\* PCS Maintenance Sub-Contractors also must be at least bizSAFE level 3 Certification.

# **Review of HSE Performance**







- (a) No Lost Time Incident
- (b) Workplace Safety & Health Performance Award
- (c) Responsible Care ® Award







### (a) No Lost Time Incident

Achieved **18 years** of no Lost Time Incident safety milestone on 11 March 2022.





### (b) Workplace Safety & Health Performance Award

PCS was awarded the Workplace Safety and Health (WSH) Performance (Excellence) Award by the WSH Council for the second year in 2022.

Applicants for the Excellence Award needs to be a recipient of the Gold award for three or more consecutive years.







### (b) Workplace Safety & Health Performance Award

PCS Managing Director, Mr Hisashi Shibayama, received the Award at the ceremony held on 27 July 2022 at Resorts World Convention Centre.



"Our philosophy is one where we take ownership of our safety and health by working with our partners, who are our contractors, with an open two-way communication"





### (b) Workplace Safety & Health Performance Award

The Straits Times article in the WSH Awards Special Supplement

**WORKPLACE SAFETY & HEALTH AWARDS 2022** 

# Identify, share and learn, not blame

Open and honest communication has helped keep the Petrochemical Corporation of Singapore accident-free for the last 18 years

#### BY MARIANNE TAN

A fatal on-site accident in 2004 in which a worker fell from a height was a wake-up call for the Petrochemical Corporation of Singapore (PCS).

Workplace safety protocols had been in place, but there was a lack of safety compliance awareness, communication and sense of ownership about them, said Mr Bernard Leong, a health, safety and environment (HSE) manager with the company

Since the accident, PCS has gradually instilled a culture of open communication by formalising it through its three core Workplace Safety and Health (WSH) pillar and encouraging workers to take ownership of their own safety.

The "STOp And Report (STAR)" pillar, for

The "STop And Report (STAR)" pillar, for example, empowers all staff, regardless of rank, to intervene and stop any unsafe act or condition, while the Behaviour Based Safety (BBS) observation encourages workers to identify and learn from both safe and at-risk behaviours without apportioning blame.

"Being an essential chemicals producer, our plants are running 24/7, and we rely heavily on contractors to support our maintenance activities. Our WSH has to move beyond the basics," says Mr Leong.

The firm's approach towards open communication exists at every level of the company. Contractor representatives sit in the committee involved in putting together WSH policies, while Mr Leong makes himself easily available to receive feedback from his workers through text or e-mail.

He recalls a site visit where one of his workers stopped a PCS shareholder from overstepping a safety boundary, for which Petrochemical
Corporation of
Singapore empowers
all staff, regardless of rank, to intervene
and stop any unsafe
act or condition, and
encourages them
to identify and learn
from both safe and
at-risk behaviours.
PHOTO
PETROCHEMICAL

Mr Leong complimented him for speaking up promptly. He adds: "Even

He adds: "Even the shareholder was impressed that we had such an open and honest culture!" Thanks to this

mindset, PCS has been accidentfree since 2004. Its sustained performance in WSH practices was recently recognised with a second WSH Performance (Excellence) Award, presented by the WSH Council to organisations and individuals who have achieved exemplary safety and health management systems, and gone to extraordinary lengths to safeguard employees and contractors at their worksites. The Excellence Award is given to companies that have won the WSH Performance (Gold) Award for three or more consecutive years.

PCS is currently carrying out its digital transformation plans, and reviewing the



processes and systems where technology can be implemented in order to eliminate hazards while improving efficiency. It also intends to formalise the wellness initiatives it put in place during the Coyld-19 andemic.

including the Employee Assistance Programme which provides confidential professional support and consultation to workers who require assistance to manage their overall well-being.

Says Mr Leong of PCS' achievement: its good that we have been accident-free for the last 18 years, but it is more important that we are a company that is intrinsically motivated to care for its workers' health and safety, so that everyone feels that the company cares for them. With this sense of ownership, workers are empowered to look out for one another as well."

"It is good that we have been accident-free for the last 18 years, but it is more important that we are a company that is intrinsically motivated to care for its workers' health and safety, so that everyone feels that the

MR BERNARD LEONG
health, safey and environment (HSE)
manager, Petrochemical Corporation
of Singapore









### (c) Responsible Care® Award

SCIC Responsible Care® Leadership Award 2022

- to recognise companies who have attained the Excellence Award for three consecutive year for all codes relevant to their business
- PCS has achieved this award for the 7<sup>th</sup> year





# **Review of HSE Performance**

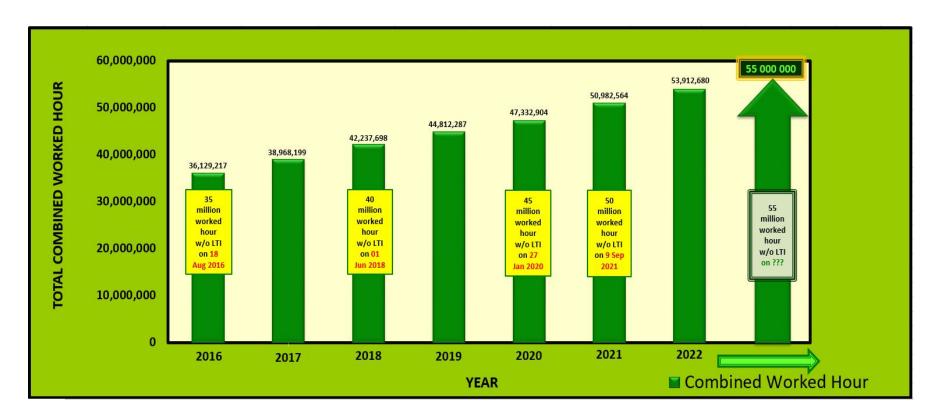






# **6. Next Safety Performance Target**

### 55 million Hours Worked without LTI and beyond ...



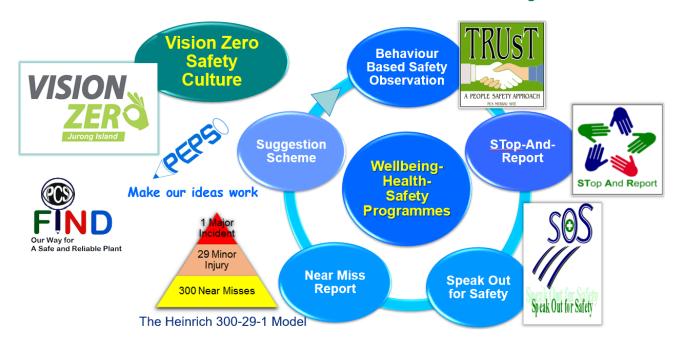
\*\* Expected to achieve 55 million hours milestone sometime after Olefin-I SDM 2023





# 6. . Next Safety Performance Target

# Care for the Health, Safety & Environment Share with Our Community



Your strong support to our in-house ongoing HSE activities such as Behaviour Based Safety Observation (BBSO), Stop and Report (STAR), Speak Out for Safety (SOS), and learning past lessons is key to our success... Vision Zero.







# **Review of HSE Performance for 2022**



# **THANK YOU**





