



PCS Pte. Ltd.



Annual PCS-Contractors HSE Meeting 2024

Review of HSE Performance for 2023

Ms Tan Peck Luan
Senior HSE Officer

12 January 2024



Review of HSE Performance



Review of HSE Performance



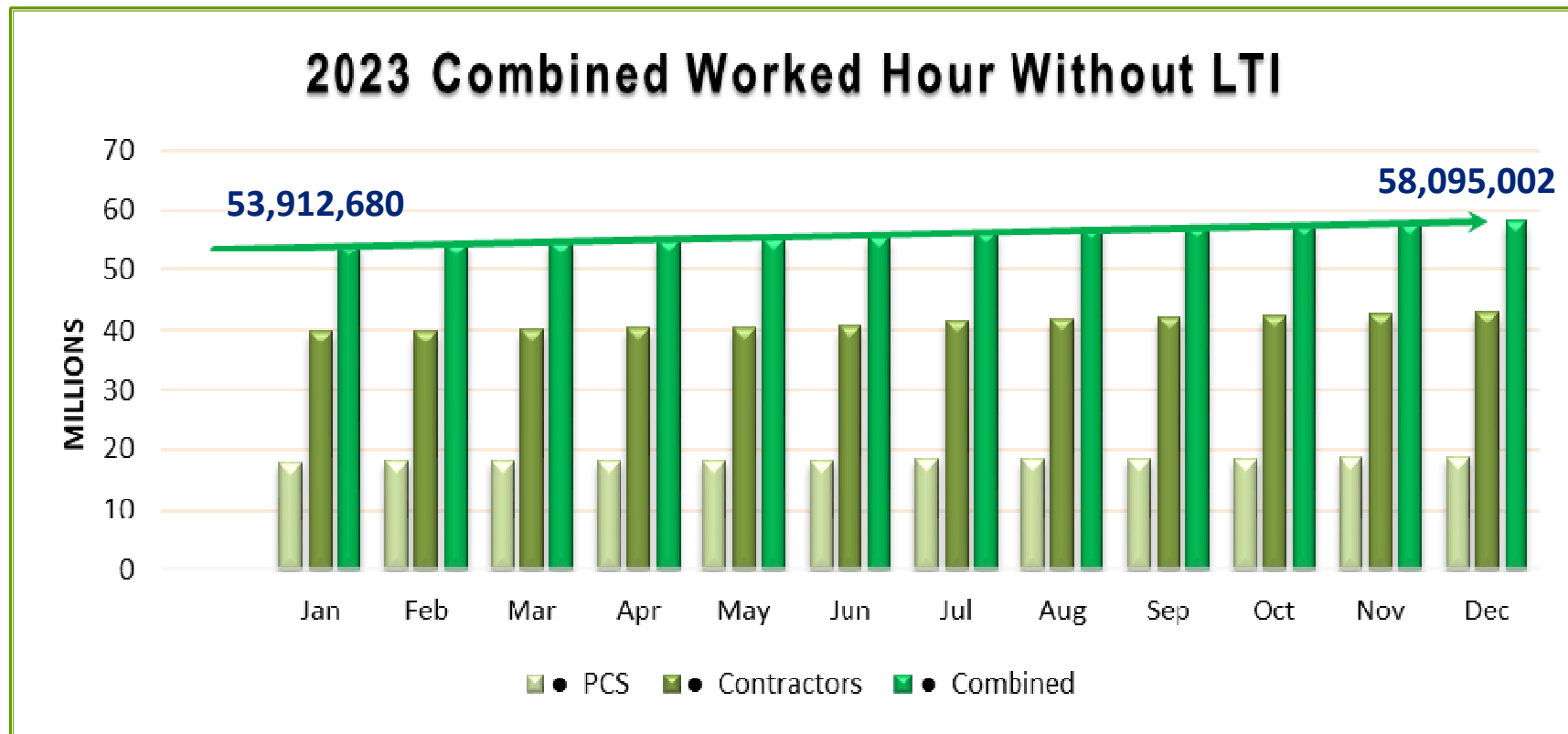


1. Safety & Environmental Performance

2023	PCS	Contractors	Combined
Lost Time Incident	0	0	0
Restricted Workday Case	0	0	0
Medical Treatment Case	0	0	0
First Aid Case	0	0	0
Plant Equipment and Facility Incident	12	2	14
Near Miss Incident	169	188	357

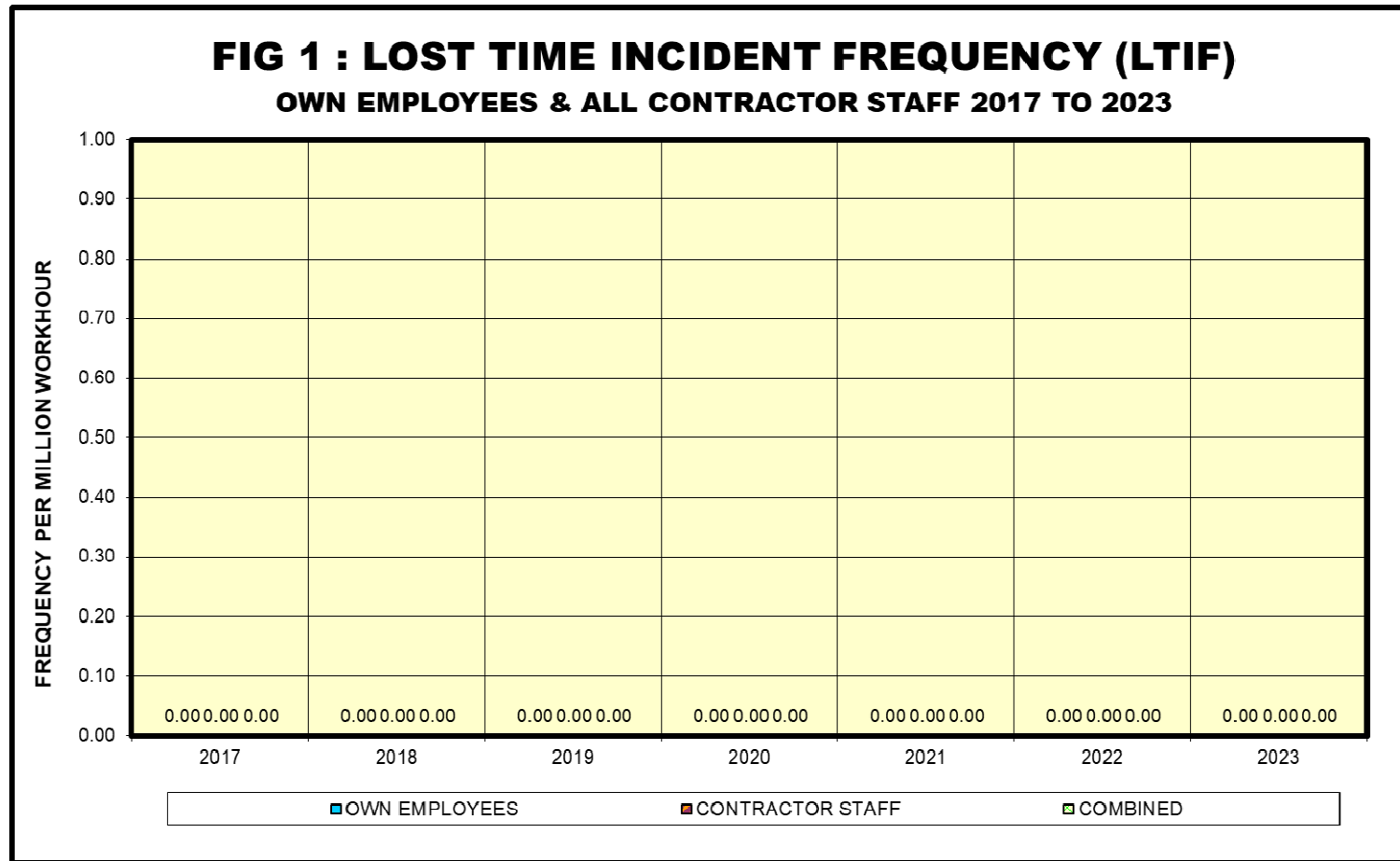
1. Safety & Environmental Performance

(a) Employees and Contractors Worked Hours



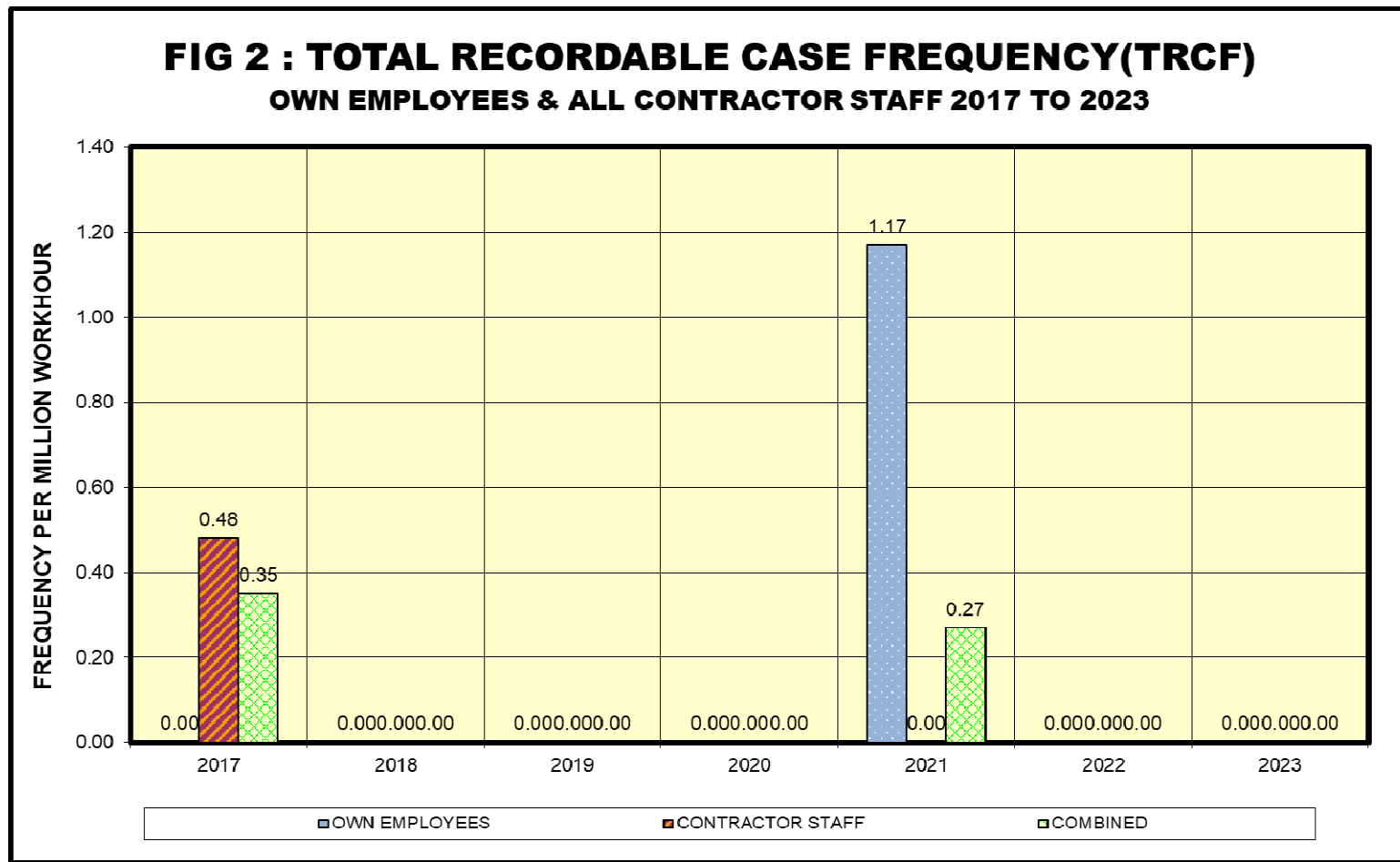
1. Safety & Environmental Performance

(b) Lost Time Incident Frequency [LTIF]



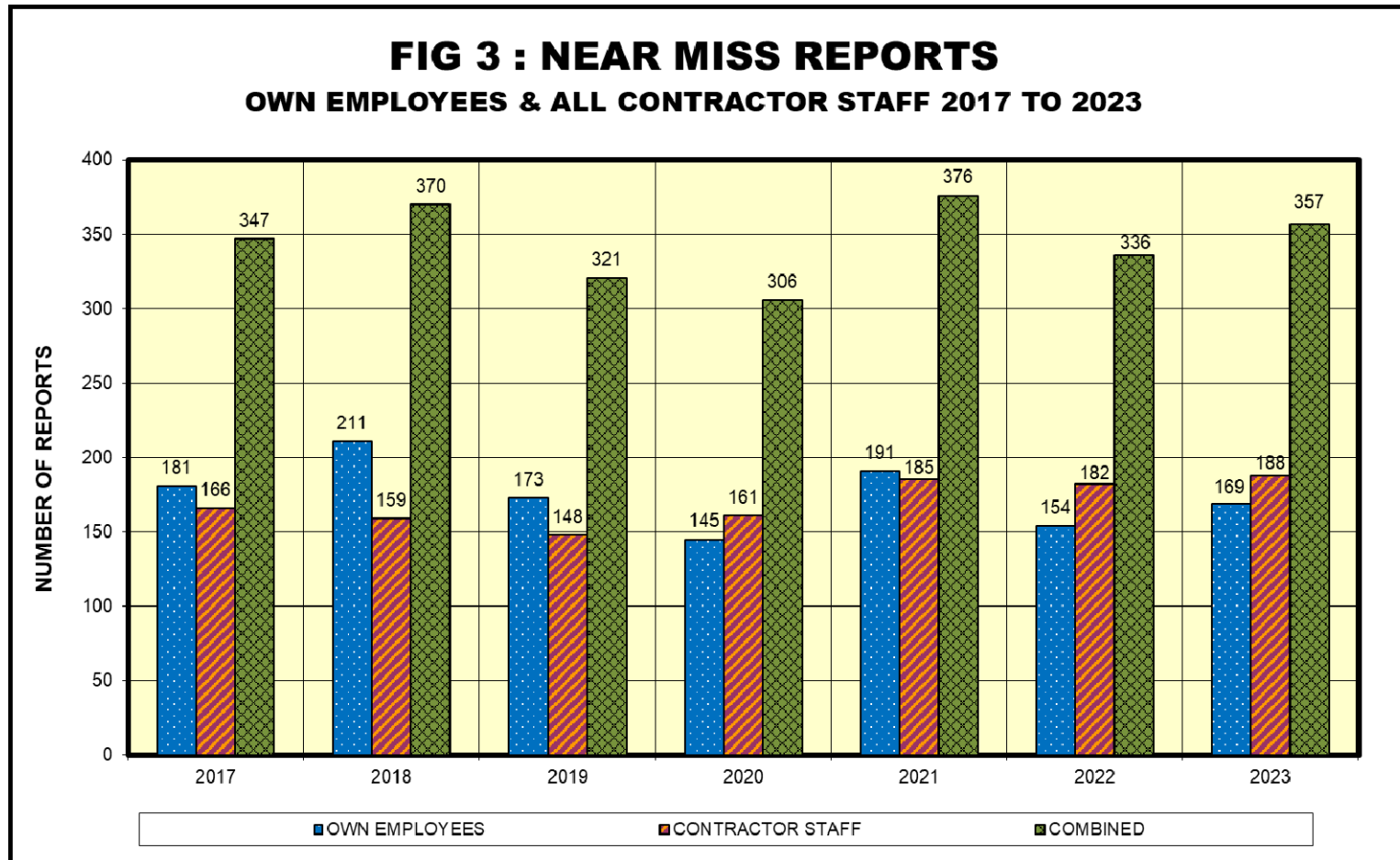
1. Safety & Environmental Performance

(c) Total Recordable Case Frequency [TRCF]



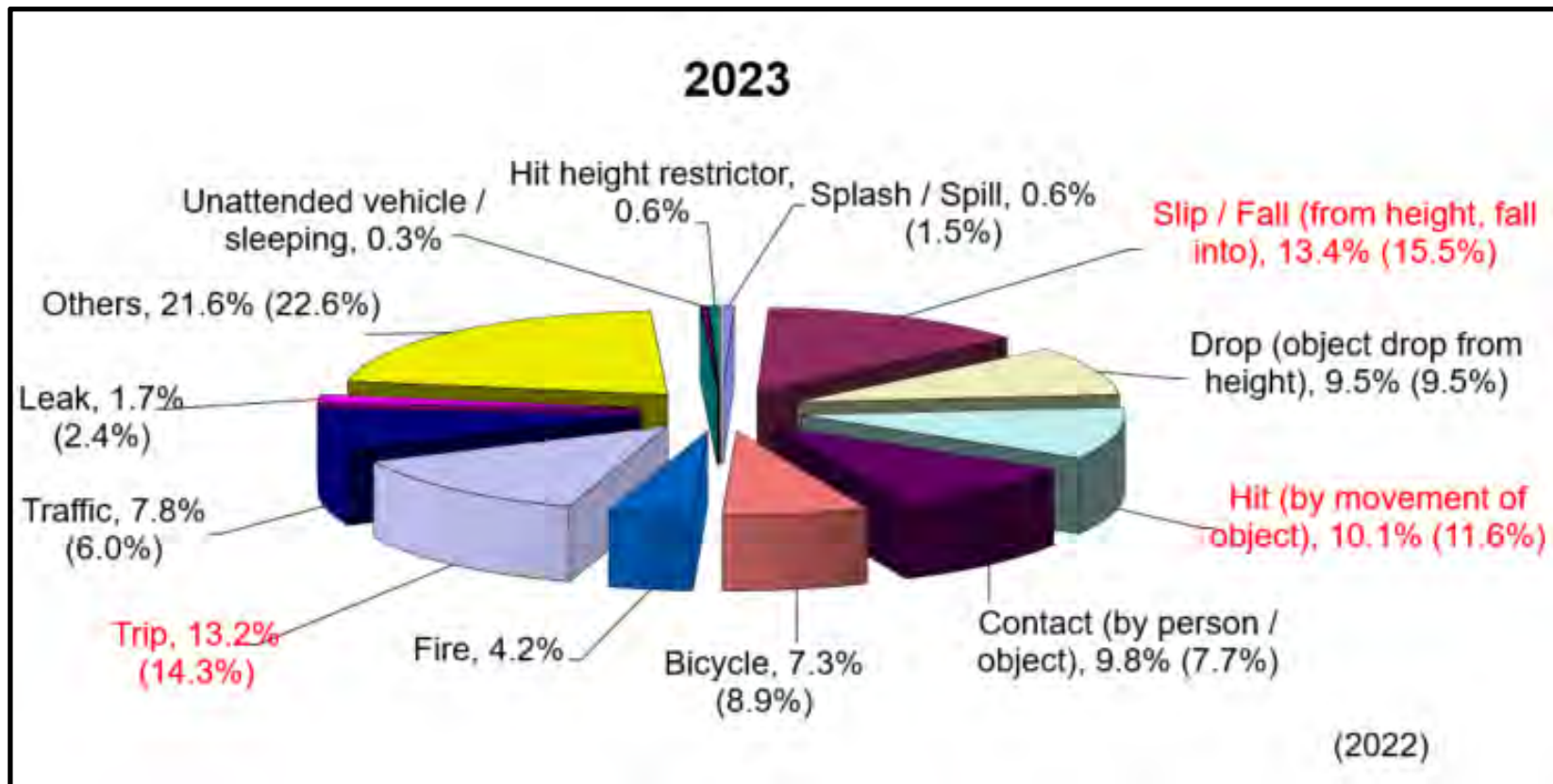
1. Safety & Environmental Performance

(e) Near Miss Incidents



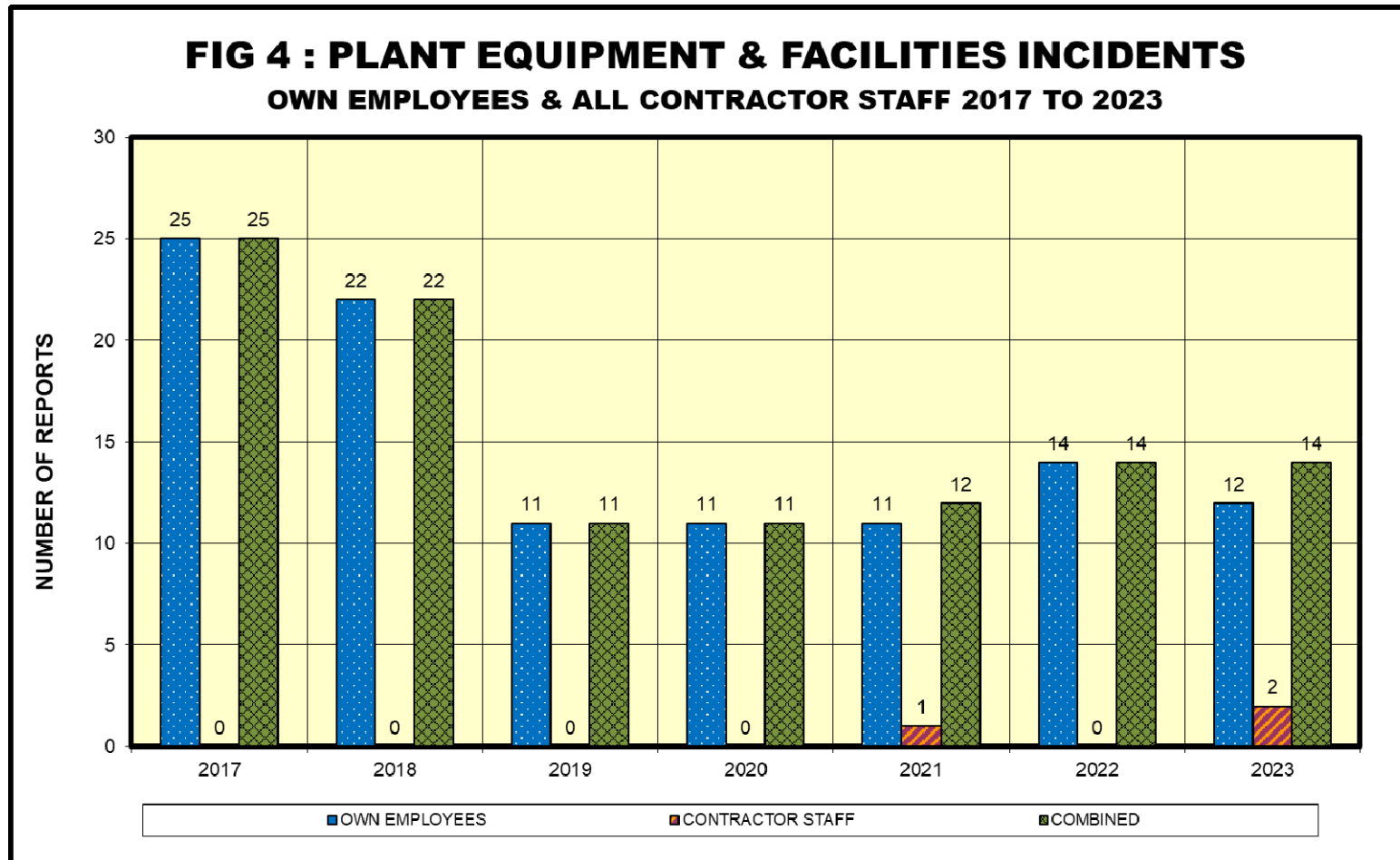
1. Safety & Environmental Performance

(e) Nature of Near Miss Incidents



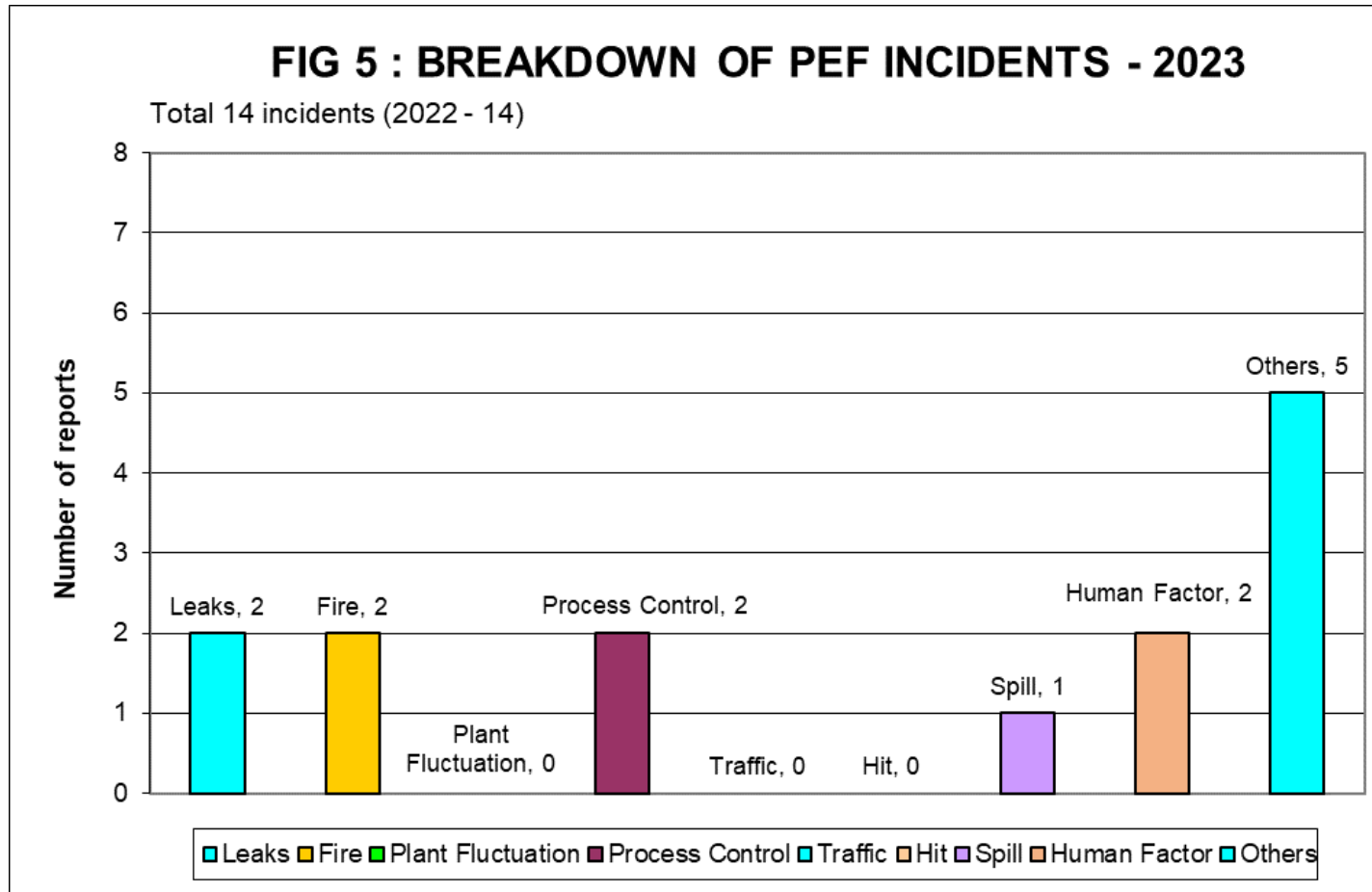
1. Safety & Environmental Performance

(f) Plant Equipment / Facilities Incidents [PEF]



1. Safety & Environmental Performance

(f) Breakdown of PEF incidents





1. Safety & Environmental Performance

(f) PEF incident – small fire at USV-3600B upstream block valve gland packing

- happened during PCS-I SDM Hot Work Period
- remnant hydrocarbon leaked and ignited by nearby ignition source, resulted in small fire
- two PEC workers spotted the fire and took prompt actions to extinguish the small fire
- no injury or damage to equipment

1. Safety & Environmental Performance

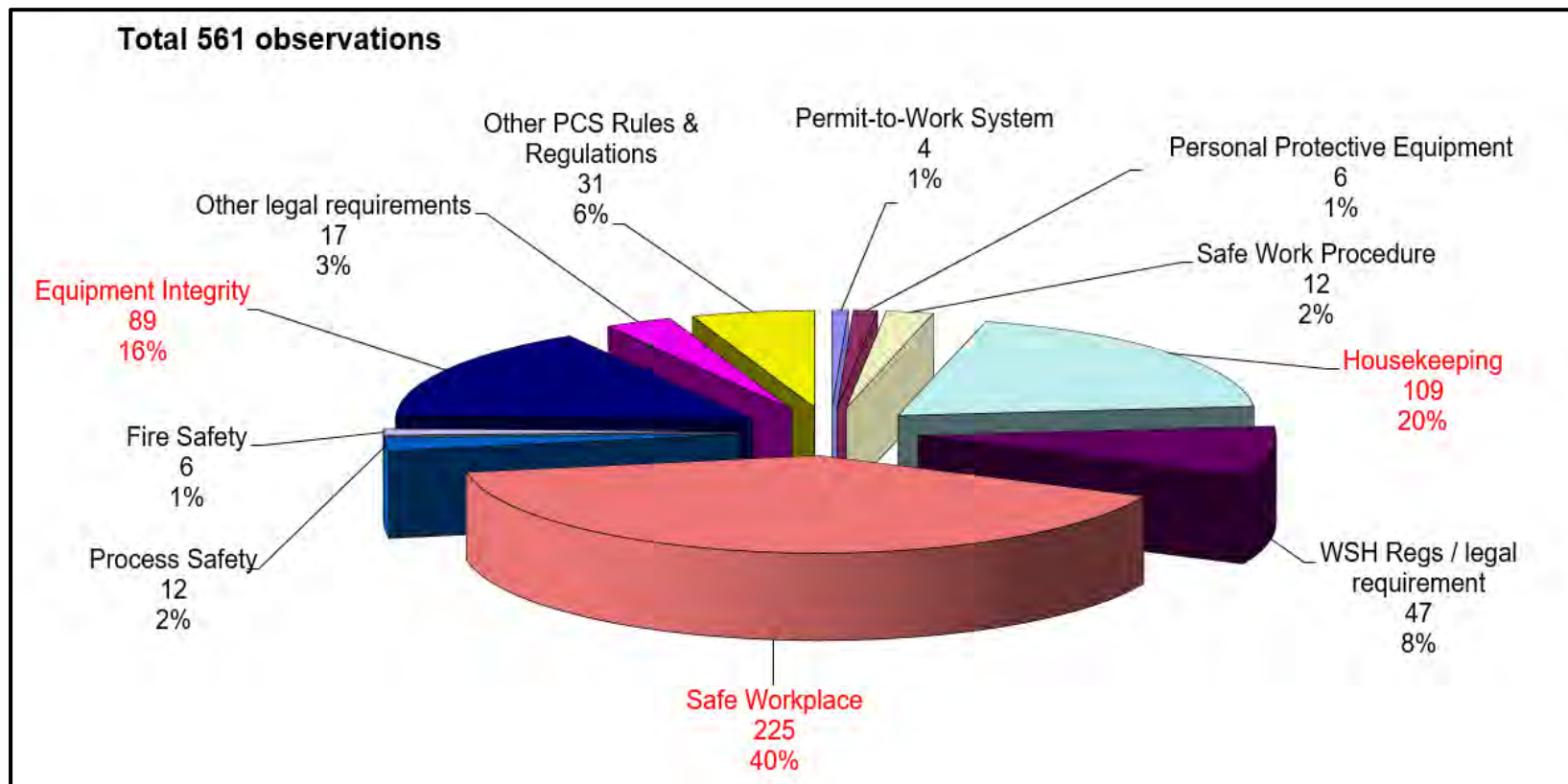
(f) PEF incident – small fire at USV-3600B upstream block valve gland packing



FIND GMP awards presented to 2 workers during Mass Tool Box Meeting, another worker received award from PEC HSSE Manager

1. Safety & Environmental Performance

(g) Nature of Observations/Violation/Breaches - 2023 (HSEO site visit)



1. Safety & Environmental Performance

(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



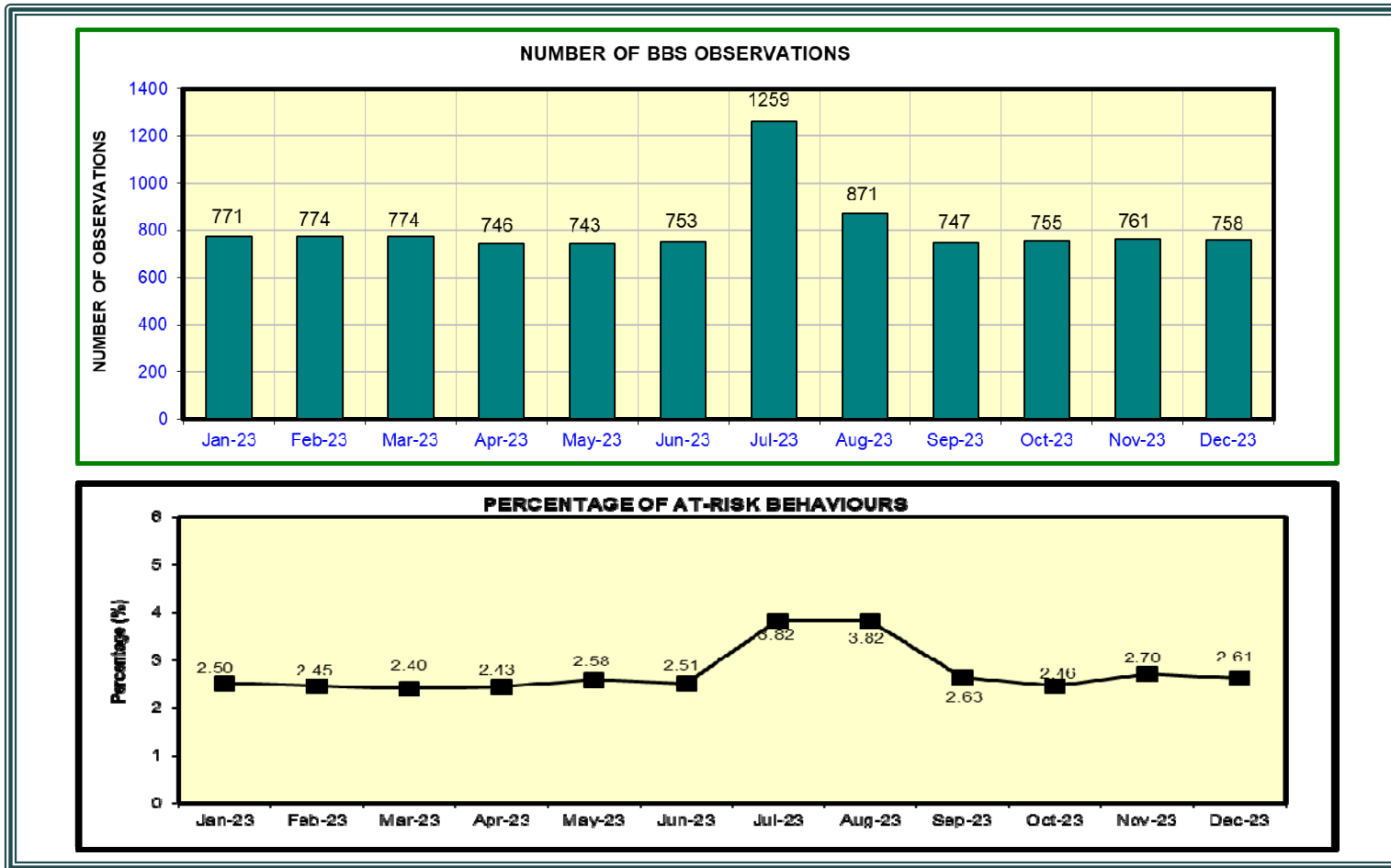
2. Behaviour Based Safety (BBS) Activities



- a. BBS Observations
- b. Nature Of Behaviour Based Safety Observation
- c. Monthly Exemplary Safe Staff / Worker Role Model
- d. BBS TRUsT Champion Award
- e. SDM 2023 BBS activities

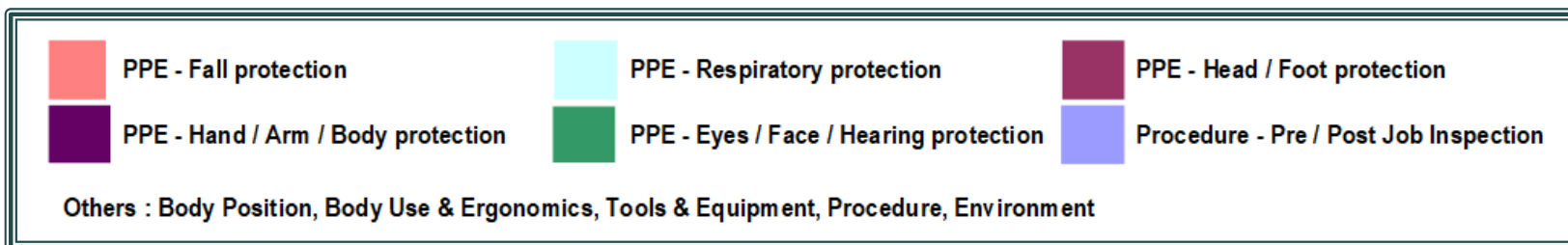
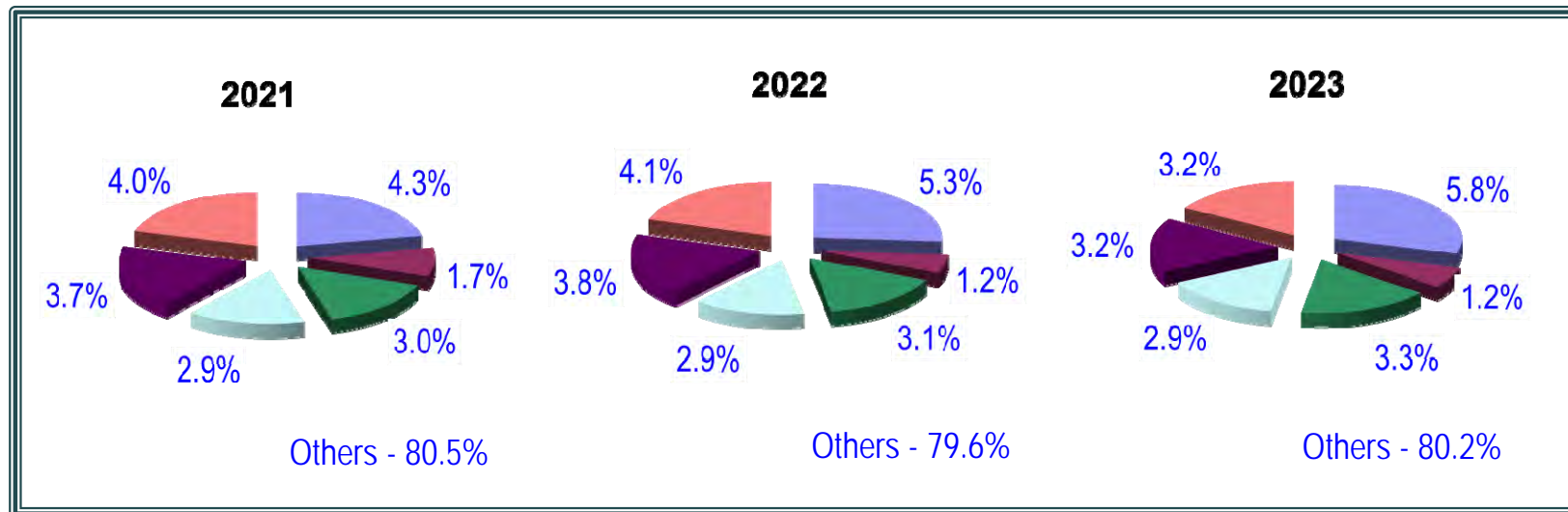
2. Behaviour Based Safety (BBS) Activities

(a) BBS Observations



2. Behaviour Based Safety (BBS) Activities

(b) Nature Of Behaviour Based Safety Observation





2. Behaviour Based Safety (BBS) Activities

(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

2. Behaviour Based Safety (BBS) Activities

(c) Monthly Exemplary Safe Staff / Worker Role Models



BBS EXEMPLARY SAFE STAFF / WORKER ROLE MODEL

DECEMBER 2023

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

Keep up the good
work!



MR ABDUL ARIF BIN ABDUL RAHIM
TECHNICIAN III
OLEFIN-I

I always ensure that equipment shall be drained, depressurised and purged of hazardous material under valve isolation, tested for passing and Lock-Out Tag-Out (LOTO) is in place before handing over to Maintenance for repair work.

[CBI 4.1 – Lock-Out and Tag-Out]
[CBI 4.4: Pre-Post Job Inspection]



MR YEE NAING MIN
ELECTRICIAN
ASAHI KOKUSAI TECHNEION SINGAPORE
PTE LTD









I will check the Permit-to-Work especially on Interlock System Permit to ensure that equipment tied up with the process system are properly isolated and LOTO is in place before commencing the instrument cable termination work.

[CBI 4.1 – Lock-Out and Tag-Out]
[CBI 4.4: Pre-Post Job Inspection]
















2. Behaviour Based Safety (BBS) Activities

(c) Monthly Exemplary Safe Staff / Worker Role Models

JANUARY		FEBRUARY		MARCH	
					
MR KELVIN TEO ZHI XIANG SENIOR TECHNICIAN OLEFIN-II	MR AUNG ZAW OO INSULATION WORKER MEISEI INTERNATIONAL PRIVATE LIMITED	MR CHEW KAI LEONG SUPERVISOR MAINTENANCE	MR LIONG KOK WAH ELECTRICAL SUPERVISOR SHOWA DENKI (SINGAPORE) CO. PTE. LTD.	MR SOONG BENG HOCK LEAD TECHNICIAN QUALITY CONTROL	MR THEIN SOE SITE TECHNICIAN YOKOGAWA ENGINEERING ASIA PTE LTD
APRIL		MAY		JUNE	
					
MR ABDUL RAHIM BIN ABDUL RAHMAN LEADING FIREMAN FIRE & SECURITY	MR ARUMUGAM ANBURAJAN ELECTRICIAN KURIHARA KOGYO CO., LTD.	MS SHARONA MOGAN LEGAL COUNSEL LEGAL	MR ISLAM RAISUL LIFTING SUPERVISOR A+ ENGINEERING PTE. LTD.	MR TAN WEI CHENG BOBBY LEAD TECHNICIAN OLEFIN-I	MR MIAH ASADUL SCAFFOLDER KYC SCAFFOLDING PTE. LTD.


2. Behaviour Based Safety (BBS) Activities

(c) Monthly Exemplary Safe Staff / Worker Role Models


JULY		AUGUST		SEPTEMBER	
					
MR WAHID BIN NOORDIN LEAD TECHNICIAN OLEFIN-II	MR DOOSA SAIRAM SUPERVISOR VORTEX ENGINEERING PTE. LTD.	MR HEW FEN TIAN SUPERVISOR MAINTENANCE	MR BEJARAPU MACHENDER SUPERVISOR LAI WOON PROCESS PTE.LTD.	MS CHEN TING TING SENIOR TECHNICIAN QUALITY CONTROL	MR ATIKUL ISLAM FORKLIFT DRIVER SINGAPORE TAKADA INDUSTRIES PRIVATE LIMITED
OCTOBER		NOVEMBER		DECEMBER	
					
MR CHENG WEI HONG LEADING FIREMAN FIRE & SECURITY	MR RANGANATHAN VIJAYAKUMAR FOREMAN SANKYU (SINGAPORE) PTE LTD	MR KEW JIA MING SENIOR OFFICER MARKETING & SALES	MR KUMAR SARANRAJ SCAFFOLDER VINDES ENGINEERING PTE LTD	MR ABDUL ARIF BIN ABDUL RAHIM TECHNICIAN OLEFIN-I	MR YEE NAING MIN ELECTRICIAN ASAHI KOKUSAI TECHNEION SINGAPORE PTE LTD

2. Behaviour Based Safety (BBS) Activities

(d) BBS TRUsT 2022/2023 Top Champion Award




Quality BBS Observation



CBI 1.2 :	Eyes on path or task	Name of Champion:	Tham Yow Sing
Date:	1 July 2022	Function:	MAI (MEC)
Time:	0930 Hrs	Location:	SU-SW Areas


Photo of At-risk Behaviour



Observation

While (Task):	Lifting pallet of tools & equipment with fork lift
Was (At-Risk):	Forklift driver did not have a clear view on his task
Because (Barrier):	Banksman was retrieving some tools from his bicycle tool box
Intervention:	Stop the lifting operation till the banksman is ready to guide the fork lift driver.


Photo after Intervention




Intervention:

While (Task):	Lifting pallet of tools & equipment with fork lift
Was (At-Risk):	Forklift driver did not have a clear view on his task
Because (Barrier):	Banksman was retrieving some tools from his bicycle tool box
Intervention:	Stop the lifting operation till the banksman is ready to guide the fork lift driver.

Note: The behaviours depicted in this submission are for learning purposes only. No disciplinary actions will be taken against the workers. -R-Apr 2013




Quality BBS Observation



CBI 5.5 :	Fall Protection	Name of Champion:	Tham Yow Sing
Date:	18 Jan 2023	Function:	PCS Mechanical
Time:	13:16Hrs	Location:	SU-Z130B Bar screen


Photo of At-risk Behaviour



Observation

While (Task):	lifting up existing grating covers for repair
Was (At-Risk):	not wearing safety harness
Because (Barrier):	not aware of falling hazard
Intervention:	instruct workers to put on safety harness before work resume

Photo after Intervention



Intervention:

While (Task):	lifting up existing grating covers for repair
Was (At-Risk):	not wearing safety harness
Because (Barrier):	not aware of falling hazard
Intervention:	instruct workers to put on safety harness before work resume

Note: The behaviours depicted in this submission are for learning purposes only. No disciplinary actions will be taken against the workers. -R-Apr 2013

2. Behaviour Based Safety (BBS) Activities

(d) BBS TRUsT 2022/2023 Top Champion Award



Mr Tham Yow Sing, Maintenance



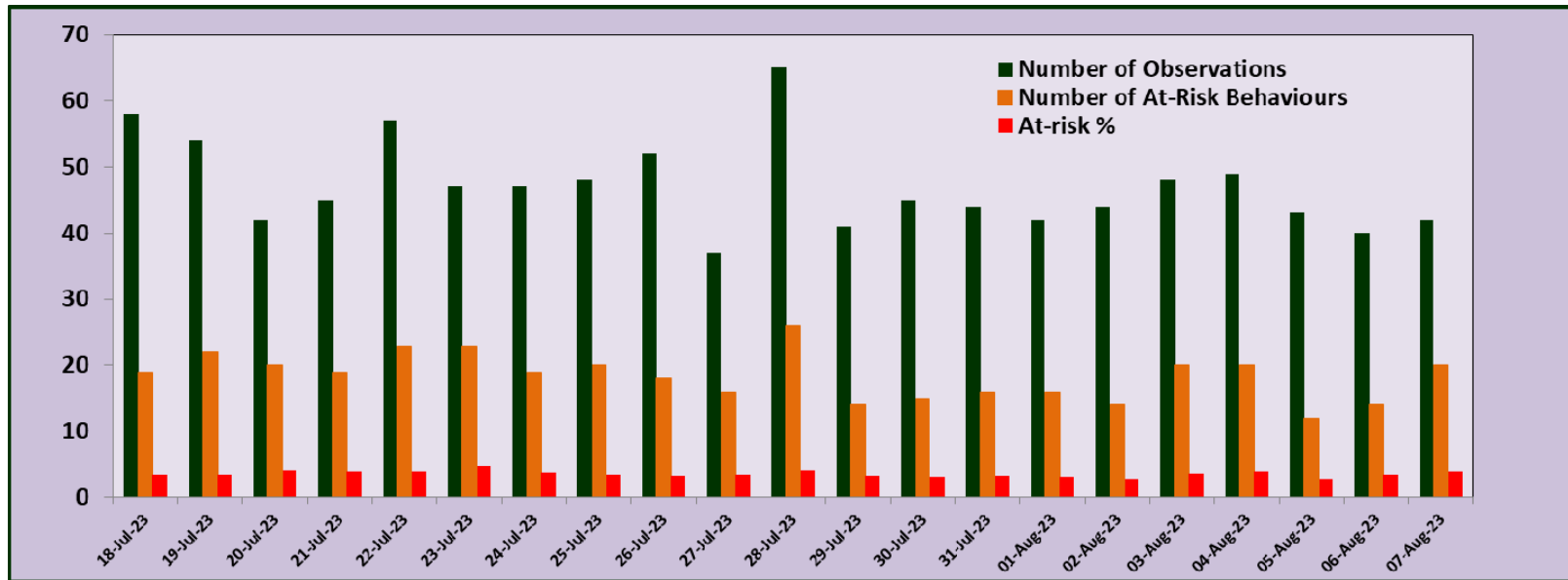
2. Behaviour Based Safety (BBS) Activities

(e) SDM 2023 BBS Activities

- HIBTO – High Intensity BBS TRUsT Observations
 - ❖ To enhance safe work behaviours by:
 - Providing greater awareness of Behaviour Based Safety
 - Participation of supervisors and workers
- BBS Star Models
 - One Supervisor and three workers selected every 4 days
 - \$50 cash vouchers awarded to the selected models
 - Photos of BBS STAR models displayed on SDM notice boards

2. Behaviour Based Safety (BBS) Activities

- SDM 2023 HIBTO Statistics



Hot work period: 18 Jul ~ 07 Aug 2023

Total nos of observations: 990

Daily average obs: 47 (Daily Target: 36 obs)

At-risk percentage during hot work period: 3 ~ 5 %

2. Behaviour Based Safety (BBS) Activities

- SDM 2023 BBS Star Models



Review of HSE Performance





3. Safety Performance Awards

(a) Combined PCS Employees / Contractors Set Target (CPST)

- Award is given when PCS employees and contractors meet the Total Recordable Case Frequency set and maintain a Lost Time Incident free period for the quarter
- PCS Employees and Contractors Achieved the Quarterly Set Target for all 4 Quarters in 2023
- Contractor workers received vouchers totalling S\$17,500 for the achievement in each quarter



3. Safety Performance Awards

(b) Contractors Safety Set Target (CSST)

- Award is given to the Direct Contractor Company which achieved a One Year Lost Time Incident Free record while working in PCS
- Bonus Award given for achieving consecutive 3rd, 5th, 7th, 9th, 12th and every 3-yearly thereafter
- Commemorative plaques and monetary rewards given for the bonus award

3. Safety Performance Awards

Contractor Companies awarded Commemorative Certificate for 2023

S/N	Company	S/N	Company
1	Petrochemical Complex Contractors Association	8	Hai Leck Engineering (Private) Limited
2	A+ Engineering Pte. Ltd.	9	Holcam Construction Pte Ltd
3	Aetos Security Management Pte. Ltd.	10	Ikari Services Pte Ltd
4	Archiplast Engrg Services & Modelling	11	Kurihara Kogyo Co., Ltd.
5	Asahi Kokusai Techneion Singapore Pte. Ltd.	12	KYC Scaffolding Pte. Ltd.
6	ComfortDelGro Bus Pte. Ltd.	13	Lai Woon Process Pte. Ltd.
7	Foster Asia Pacific Pte Ltd	14	Loh Kim Chay Marine Service



3. Safety Performance Awards

Contractor Companies awarded Commemorative Certificate for 2023

S/N	Company	S/N	Company
15	Long Wei Construction & Engineering Works Pte. Ltd.	22	Singapore Takada Industries Private Limited
16	Meisei International Private Limited	23	The Wok People Pte. Ltd.
17	Prowess Engineering Design and Services	24	Trident Hydro Jetting Pte Ltd
18	PSM Aircon & Engineering Pte. Ltd.	25	Vindes Engineering Pte Ltd
19	Sankyu (Singapore) Pte Ltd	26	Vortex Engineering Pte. Ltd.
20	Setsco Services Pte Ltd	27	Yokogawa Engineering Asia Pte Ltd
21	Showa Denki (Singapore) Co. Pte. Ltd.		

3. Safety Performance Awards

Contractor Companies awarded CSST Bonus Award for 2023

	SINGAPORE TAKADA INDUSTRIES PRIVATE LIMITED	HAI LECK ENGINEERING (PRIVATE) LIMITED	YOKOGAWA ENGINEERING ASIA PTE LTD
Award			
Category	1	1	2
Years worked without LTI	24	21	21
Cheque amount	\$1000	\$1000	\$500

Category 1 – monthly work hours \geq 6000 hours

Category 2 – monthly work hours \geq 1000 hours but $<$ 6000 hours

Category 3 – monthly work hours $<$ 1000 hours

3. Safety Performance Awards

Contractor Companies awarded CSST Bonus Award for 2023





3. Safety Performance Awards

(c) Long Service Award

- Award is given to Contractor Site Manager and HSE personnel, including those involved in administration and training activities
- Active participation in PCCA / PCC HSE activities
- Every 5, 10, 15 and 20 years of service

3. Safety Performance Awards - Long Service Award

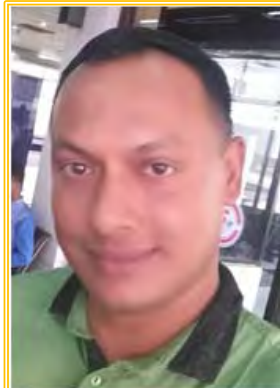


Mr. APOSTOL IVAN LEE
Singapore Takada Industries Private Limited
15 years of dedicated service in 2023

Mr. ONG KIAN HONG
Asahi Kokusai Techneion Singapore Pte. Ltd.
15 years of dedicated service in 2023

Mr. MOHAMMAD HASSAN BIN ABDUL SATAR
Asahi Kokusai Techneion Singapore Pte. Ltd.
15 years of dedicated service in 2023

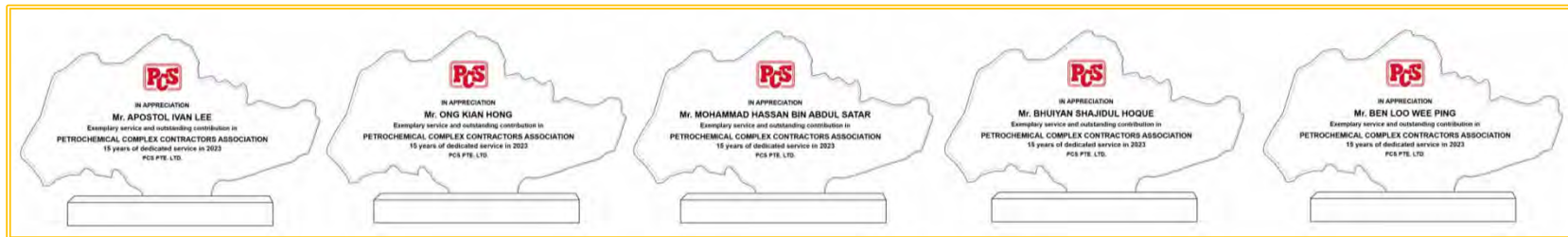
3. Safety Performance Awards - Long Service Award



Mr. BHUIYAN SHAJIDUL HOQUE
Sankyu (Singapore) Pte Ltd
15 years of dedicated service in 2023



Mr. BEN LOO WEE PING
Showa Denki (Singapore) Co. Pte. Ltd. – Project
15 years of dedicated service in 2023



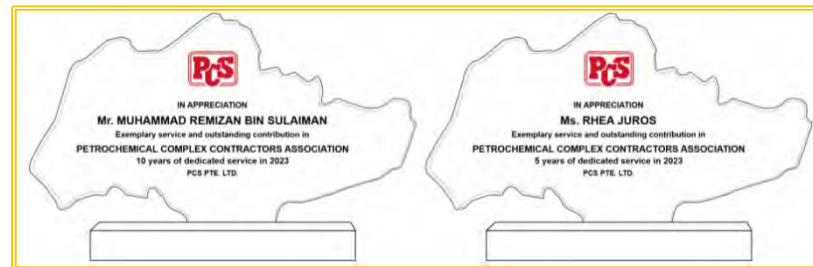
3. Safety Performance Awards - Long Service Award



Mr. MUHAMMAD REMIZAN BIN SULAIMAN
Kurihara Kogyo Co., Ltd.
10 years of dedicated service in 2023



Ms. RHEA JUROS
Petrochemical Complex Contractors Association
5 years of dedicated service in 2023



3. Safety Performance Awards

(d) SDM 2023 Performance Incentive Award

- Award is given to Contractor Company which has contributed to the safe and successful completion of PCS SDM 2023



3. Safety Performance Awards

Contractor Companies awarded SDM 2023 Performance Incentive Award

S/N	Mechanical	S/N	Instrument
1	PEC Ltd.	1	Asahi Kokusai Techneion Singapore Pte. Ltd.
2	Singapore Takada Industries Private Limited	2	Yokogawa Engineering Asia Pte Ltd
3	Mitsubishi Heavy Industries Compressor Corporation	3	Azbil Singapore Pte. Ltd
4	Sankyu (Singapore) Pte Ltd	4	Honeywell Pte Ltd
5	A+ Engineering Pte. Ltd.	5	Terasaki Electric Company (Far East) Pte. Ltd.
6	Holcam Construction Pte Ltd		
7	Exion Asia Pte Ltd	S/N	Electrical
8	Flakecoat Technology Pte Ltd	1	Showa Denki (Singapore) Co. Pte. Ltd.
9	SVS Valves Pte. Ltd.	2	SWTS Pte Ltd
10	Access Professional Singapore Pte Ltd	3	Fuji Electric Asia Pacific Pte. Ltd.

Review of HSE Performance

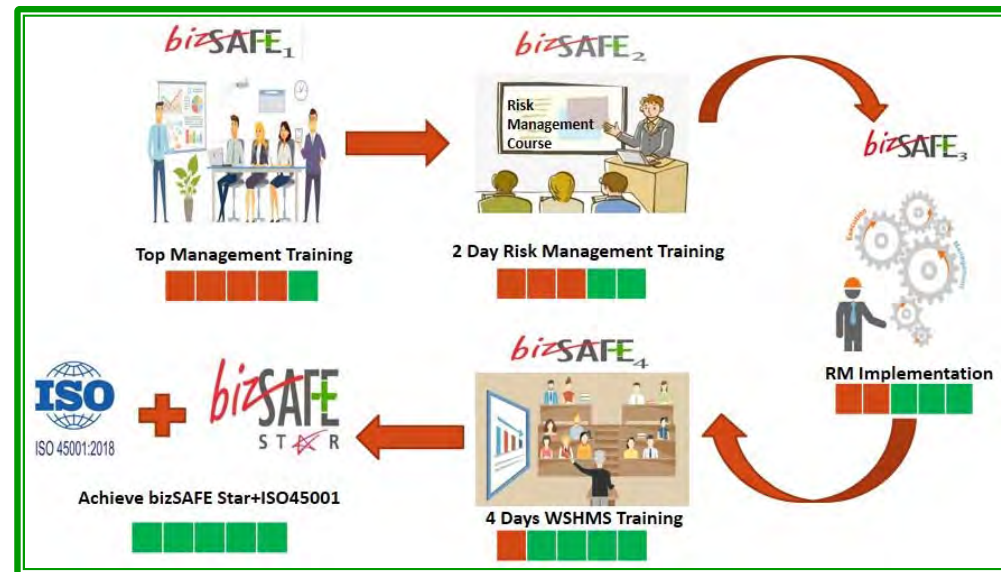


4. WSHC *bizSAFE* Programme



- 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	17 Aug 2025	13	PSM Aircon & Engineering Pte. Ltd.	Level Star	07 Nov 2024
4	Trident Hydro Jetting Pte Ltd	Partner	23 Apr 2025	14	Setesco Services Pte Ltd	Level Star	16 Dec 2026
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 Technion Singapore Pte. Ltd.	Level Star	12 Sep 2026	16	Singapore Takada Industries Private Limited	Level Star	22 Feb 2026
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 2026
9	KYC Scaffolding Pte. Ltd.	Level Star	06 Dec 2025	19	Yokogawa Engineering Asia Pte Ltd	Level Star	29 Nov 2025
10	Lai Woon Process Pte Ltd	Level Star	04 Sep 2026				

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

4. WSHC *bizSAFE* Programme



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 2026
2	Archiplast Engrg Services & Modelling	Engineering	Level Star	09 Feb 2026
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

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

Review of HSE Performance





5. HSE Achievements in 2023

- (a) No Lost Time Incident**
- (b) Completion of Ole-I SDM 2023 without recordable incident**
- (c) 55 million hours worked without Lost Time Incident**
- (d) Responsible Care[®] Award**

5. HSE Achievements in 2023

(a) No Lost Time Incident

Achieved **19 years** of no Lost Time Incident safety milestone on 11 March 2023.



5. HSE Achievements in 2023

(b) Completion of Olefin-I SDM 2023 without a recordable incident

Olefin-I SDM 2023 Health & Safety Performance

Incident Classification	Employee	Contractor	Total
Lost Time Incident	0	0	0
Restricted Workday Case	0	0	0
Medical Treatment Case	0	0	0
First Aid Case	0	0	0
Plant Equipment & Facilities	3	1	4
Near Miss	43	28	71

Note: This is the fifth consecutive SDM without a Recordable Incident.

5. HSE Achievements in 2023

(b) Completion of Olefin-I SDM 2023 without a recordable Incident



SDM Centre Opening on 17 Jul 2023

5. HSE Achievements in 2023

(b) Completion of Olefin-I SDM 2023 without a recordable Incident



Mass Tool Box Meetings on
19 Jul, 26 Jul
and 2 Aug 2023

5. HSE Achievements in 2023

(b) Completion of Olefin-I SDM 2023 without a recordable Incident



Management Walk
on 20 Jul, 27 Jul
and 3 Aug 2023



5. HSE Achievements in 2023

(b) Completion of Olefin-I SDM 2023 without a recordable Incident



SDM Centre Closing on 7 Aug 2023

5. HSE Achievements in 2023

(b) Completion of Olefin-I SDM 2023 without a recordable Incident



SDM Appreciation Dinner on 10 Aug 2023

5. HSE Achievements in 2023

(c) 55 million hours worked without LTI – 15 May 2023



5. HSE Achievements in 2023

(c) 55 million hours worked without LTI



Annual PCS-Contractors
HSE meeting 2024

5. HSE Achievements in 2023

(c) 55 million hours worked without LTI





5. HSE Achievements in 2023

(d) Responsible Care® Award

PCS was awarded the Responsible Care Leadership Award for 6 codes and Excellence Award for the Security code for year 2022

- to recognise companies who have attained the Excellence Award for three consecutive year for all codes relevant to their business
- Leadership Award for the 8th successive year since year 2014

5. HSE Achievements in 2023

(d) Responsible Care[®] Award



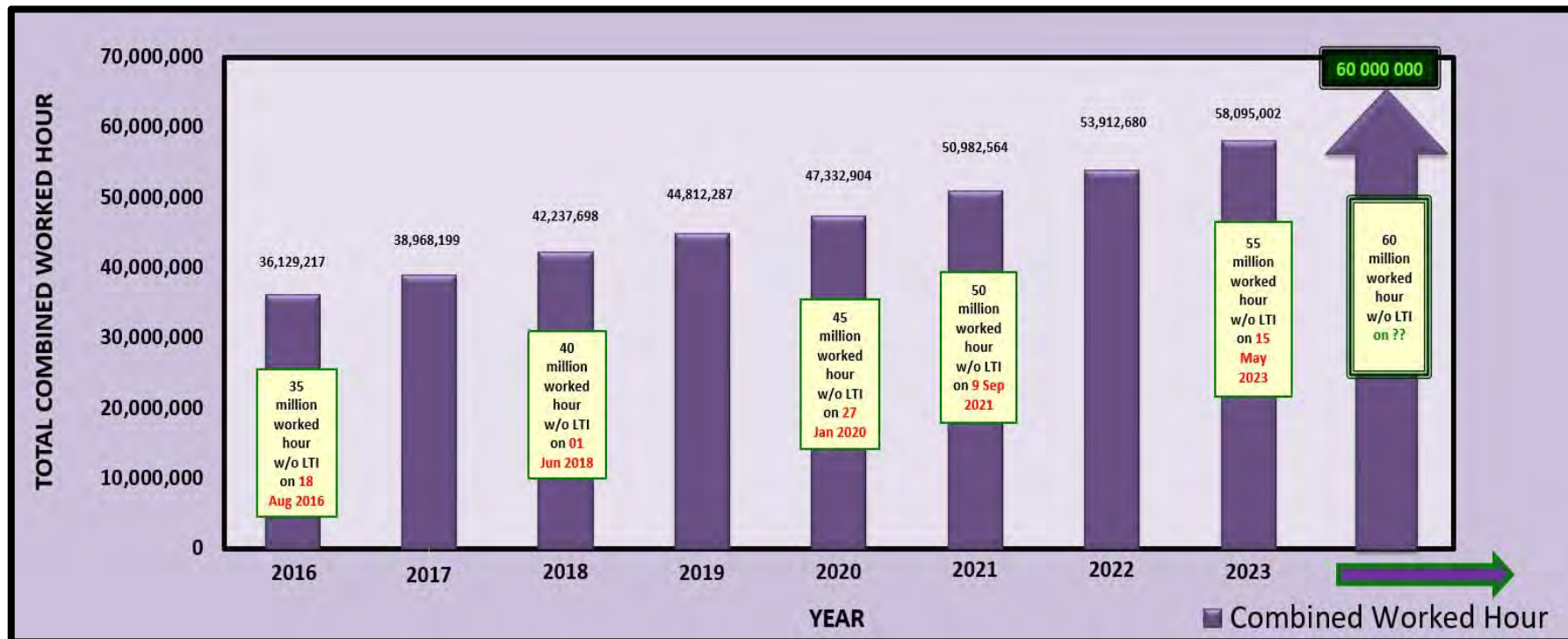
Award ceremony held on 21 April 2023

Review of HSE Performance



6. Next Safety Performance Target

55 million Hours Worked without LTI and beyond ...



** Expected to achieve 60 million hours milestone in end 2024 or early 2025

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.



THANK YOU

