

International Marine Contractors Association

Improving performance in the marine contracting industry

2021 Safety Statistics

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2021 at a glance



549
Total million hours
(2020: 651)

285
Offshore million hours
offshore (2020: 299)



Line of fire
Most common
cause of LTIs

16 fatalities reported
(2020: 2)
10 persons died in two
vessel losses



410
Safety Observation Frequency Rate
(2020: 393)



LTIFR
Lost Time Injury frequency Rate
(Fatalities + LTIs) x 1,000,000 / Total hours worked

0.35
Total LTIFR
(2020: 0.31)

0.50
Offshore LTIFR
(2020: 0.50)



TRIR
Total recordable injury Rate
(Fatalities + LTIs + Restricted Work Cases + Medical
Treatment cases) x 1,000,000 / Total hours worked

1.36
Total TRIR
(2020: 1.09)

2.01
Offshore TRIR
(2020: 1.70)



FAR
Fatal Accident Rate
(FAR = Fatalities x 100,000,000 / Total hours worked)

2.92
Total FAR
(2020: 0.31)

5.62
Offshore FAR
(2020: 0.33)

Summary

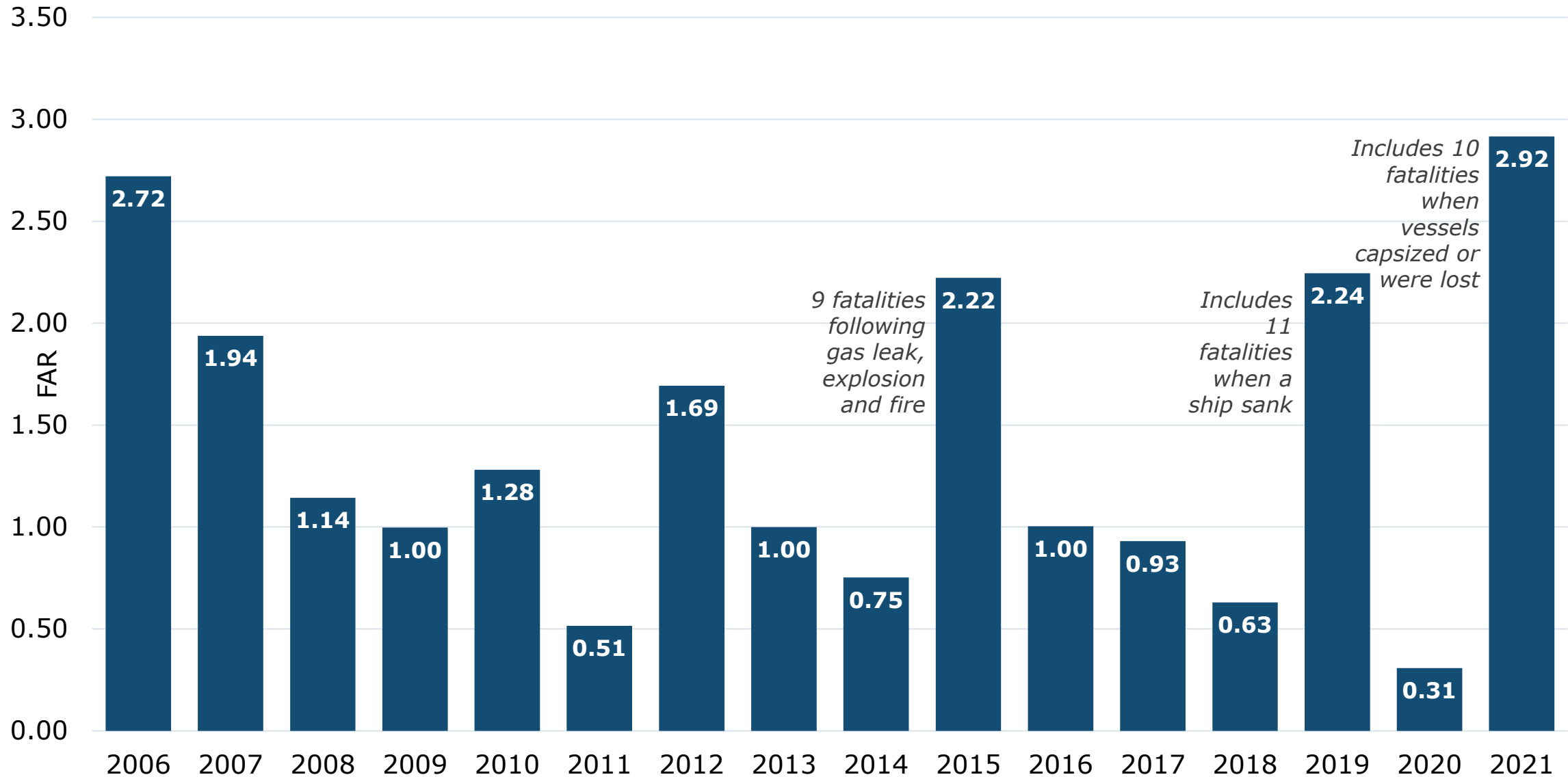


- Fatalities – 16 including 10 fatalities when vessels capsized or were lost in bad weather (Gulf of Mexico and Bombay High)
- LTIFR – no change year on year offshore, slight worsening total (0.31-0.35)
- TRIR – worsening offshore and total; a similar effect is seen across the energy industry
 - With LTIs relatively flat, there has been an increase in medical treatments
 - Trends seen during the pandemic, such as shortened attention span, fatigue, less effective training etc – have been well commented on within the industry
- Line of fire remains biggest cause of LTIs and also the IOGP Life-saving Rule that is most quoted in IMCA Safety Flash reports from members

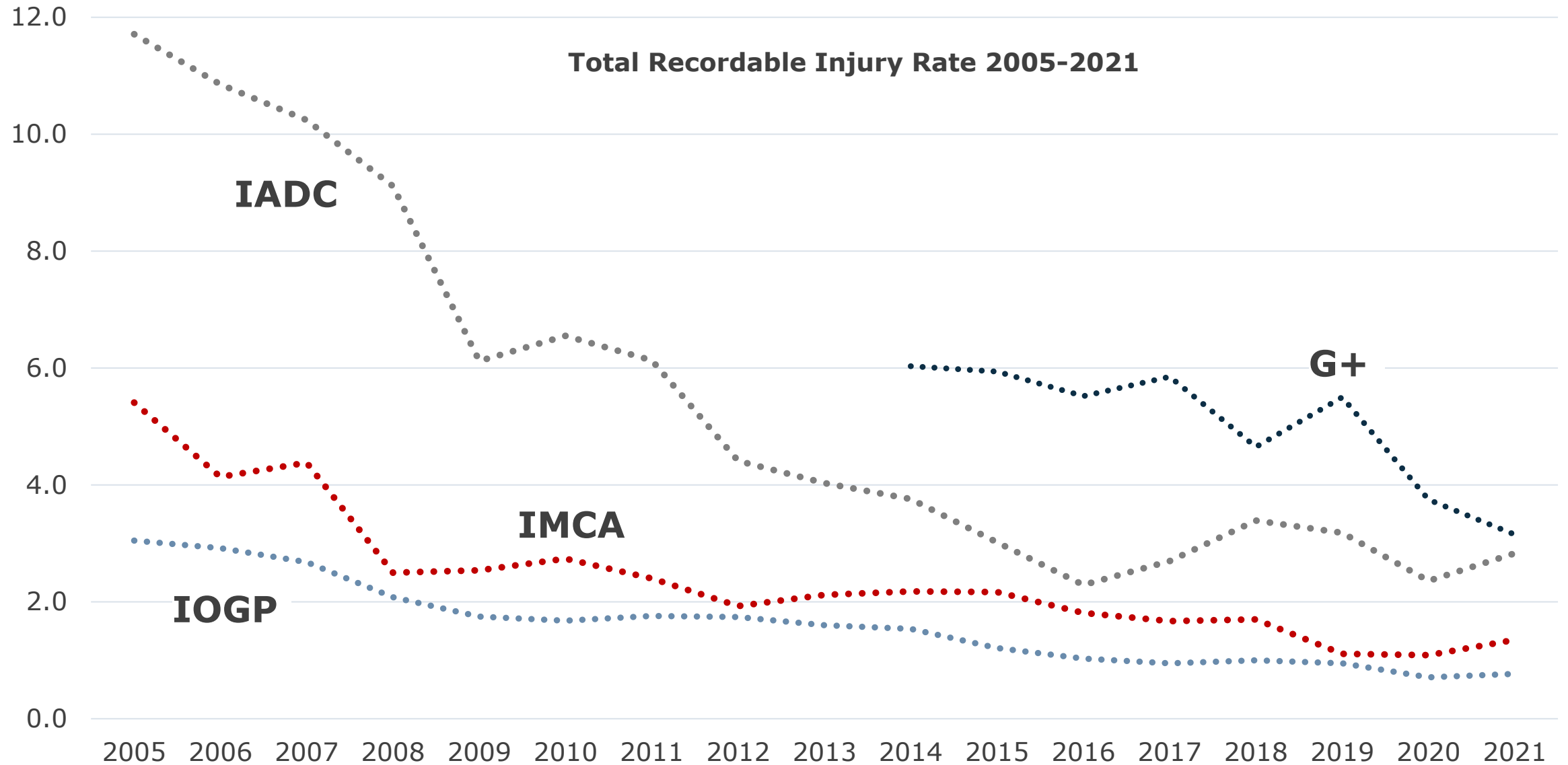
16 fatalities - summary

- 9 fatalities in the capsizing of a liftboat in the Gulf of Mexico
- 4 persons died following a vessel fire, Bombay High
- 1 person drowned onboard a barge which sank in a tropical storm, Bombay High
- 1 person fell overboard crossing between vessels in Nigeria
- 1 fatality; contractor declines to offer any further information

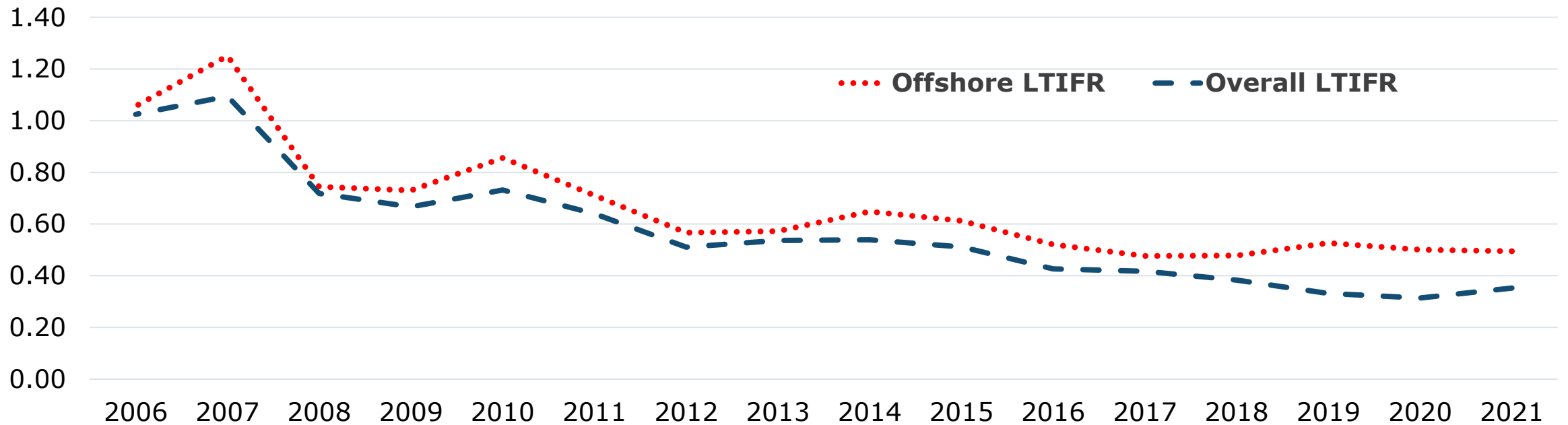
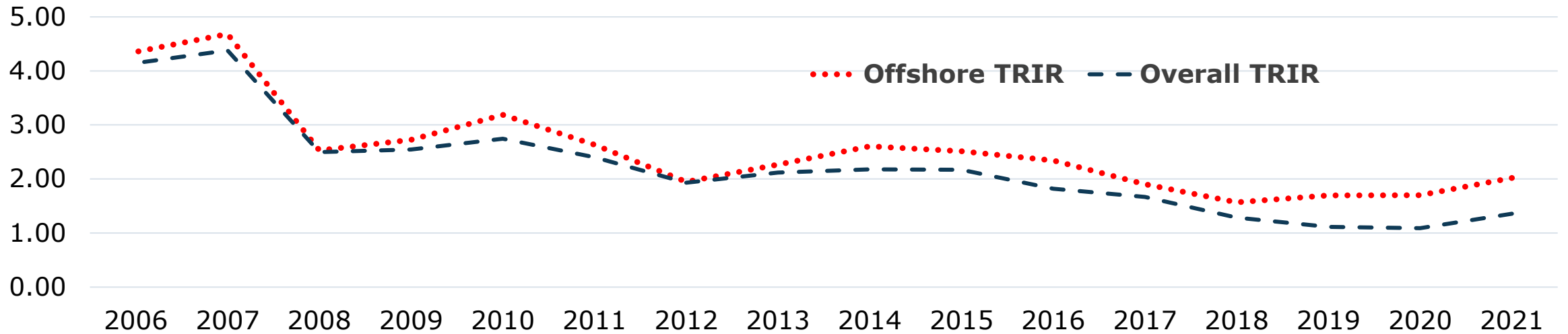
Fatal Accident Rate



Comparison with other Associations



TRIR and LTIFR 2021



Main causes of LTIs in 2021

Stored energy release 3% (2020: 8%)



Falls from height 6% (2020: 9%)



Slips and trips 26%
(2020: 23%)



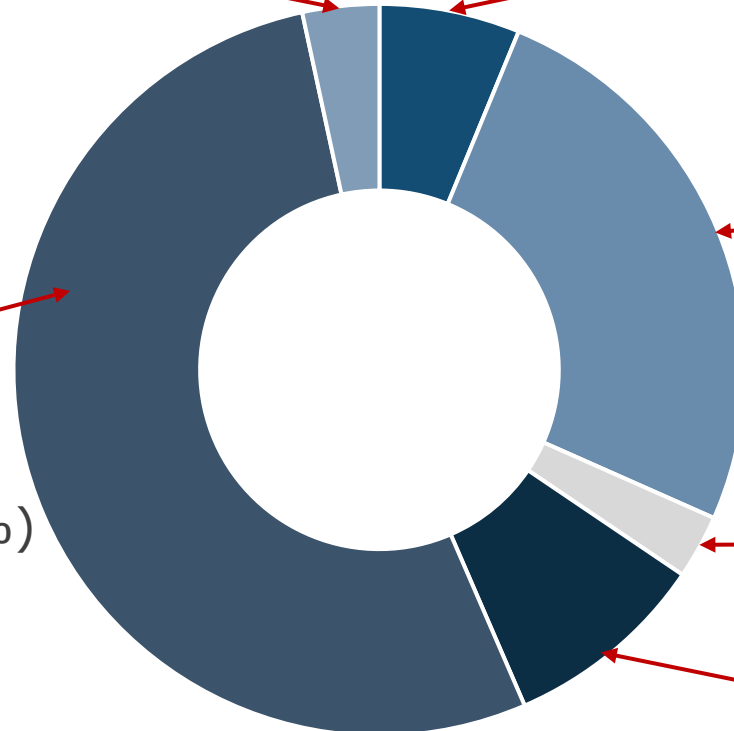
Dropped objects 3%
(2020: 8%)



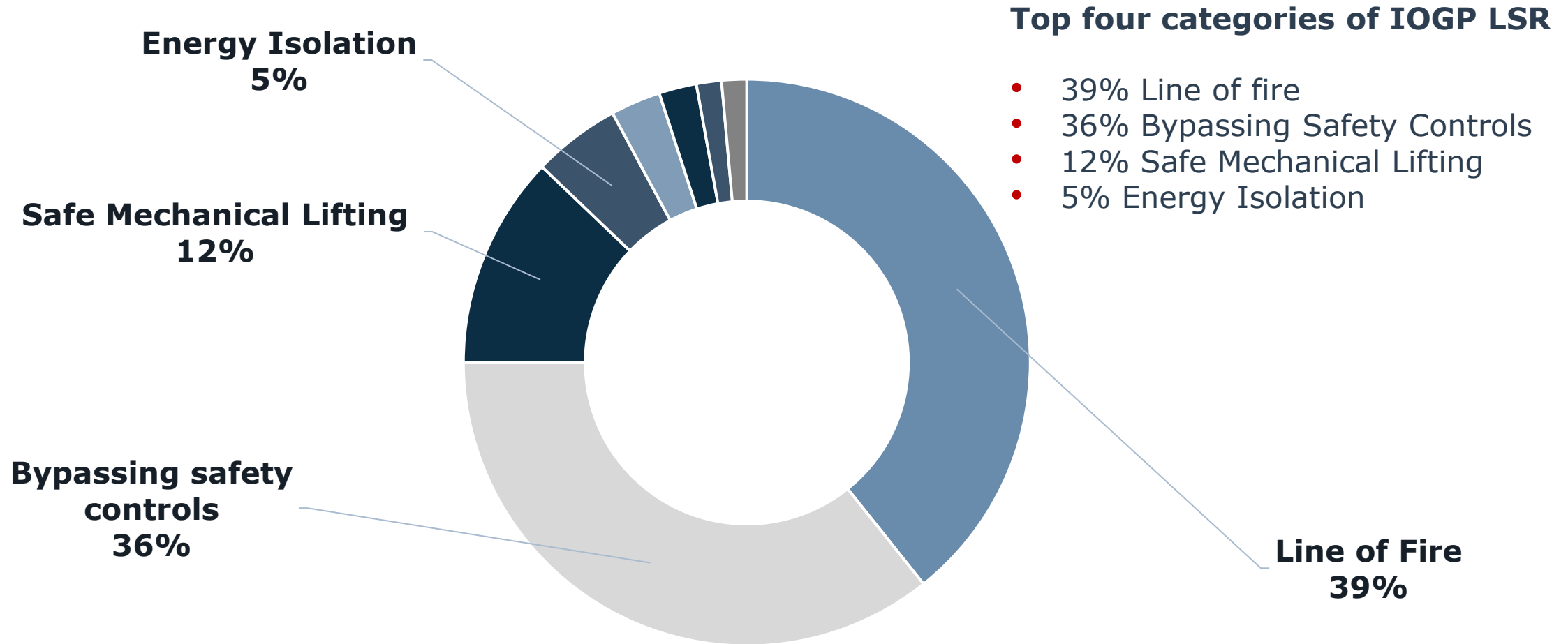
Line Of Fire 53% (2020: 42%)



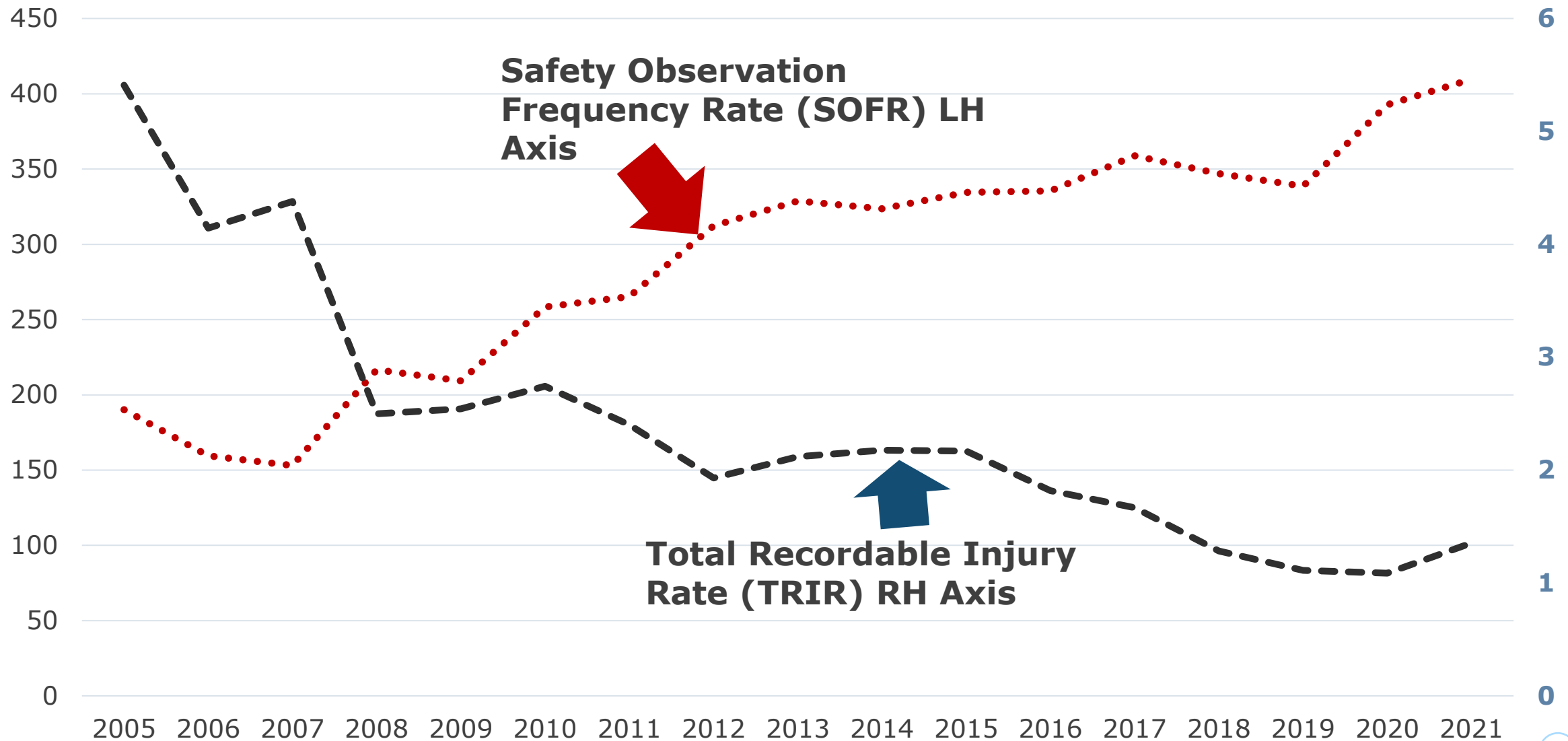
Muscle stress 9% (2020: 10%)



Safety Flashes and the IOGP LSR - 2021

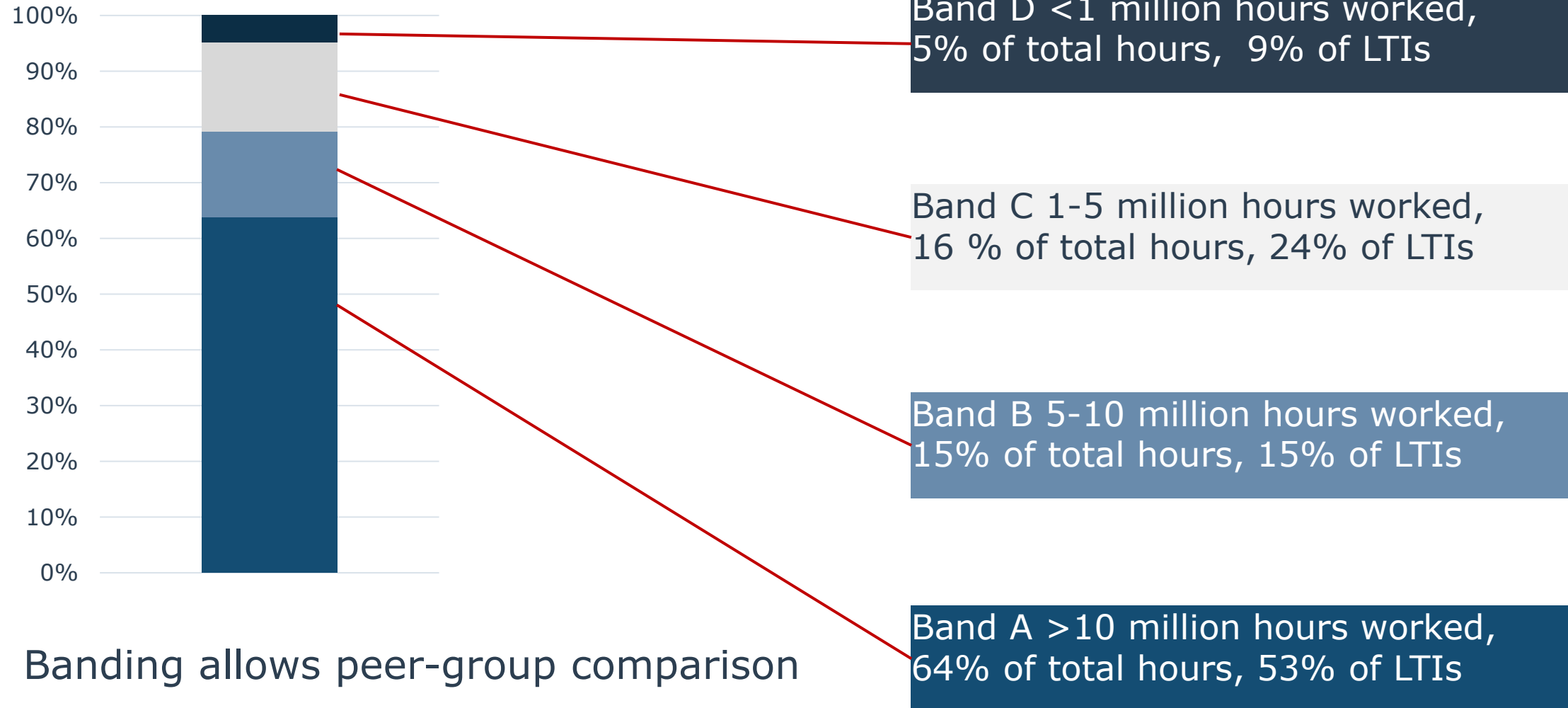


Observations v Recordables



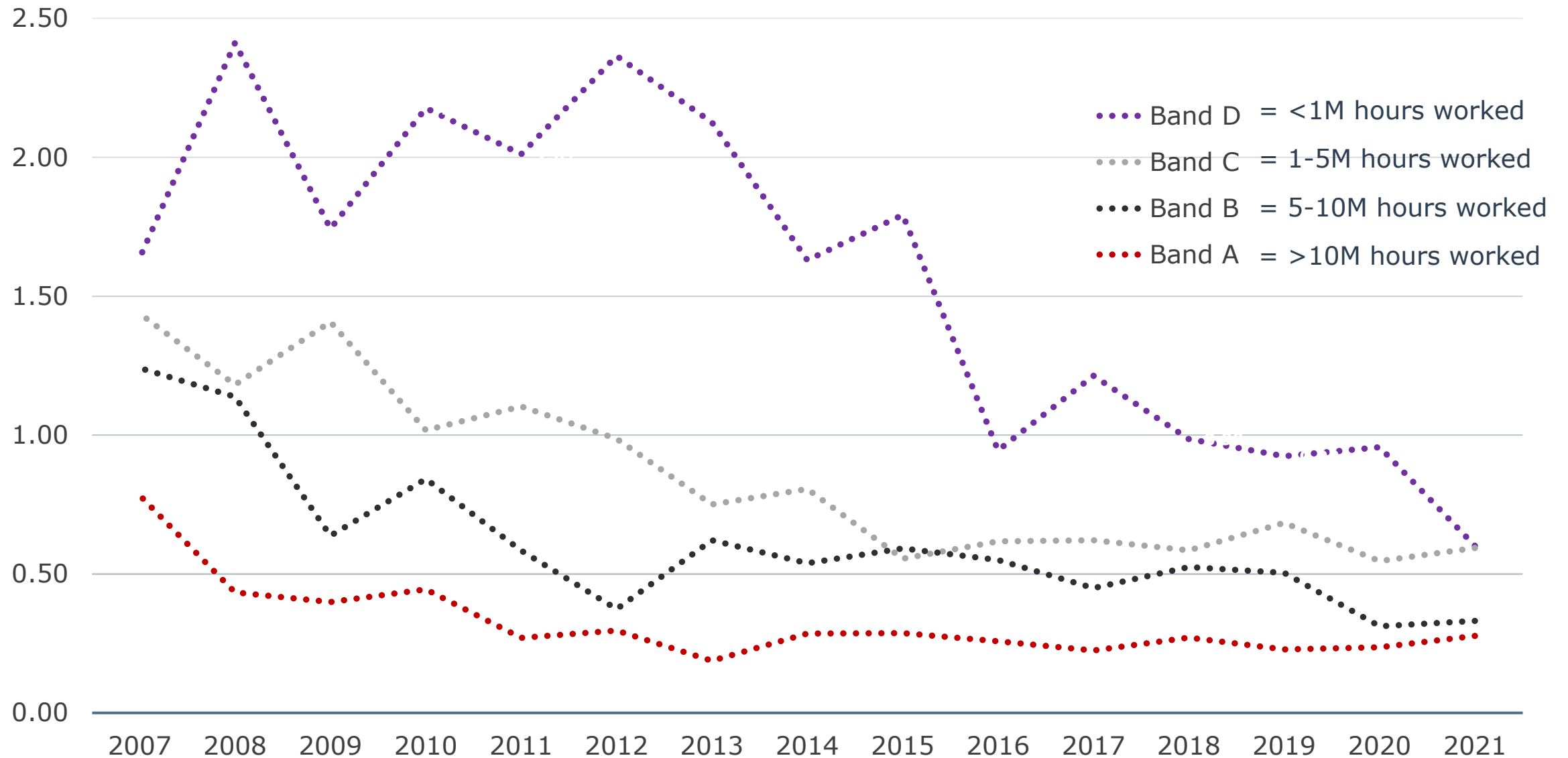
Company banding - 2021

- % of total man-hours (549 million)

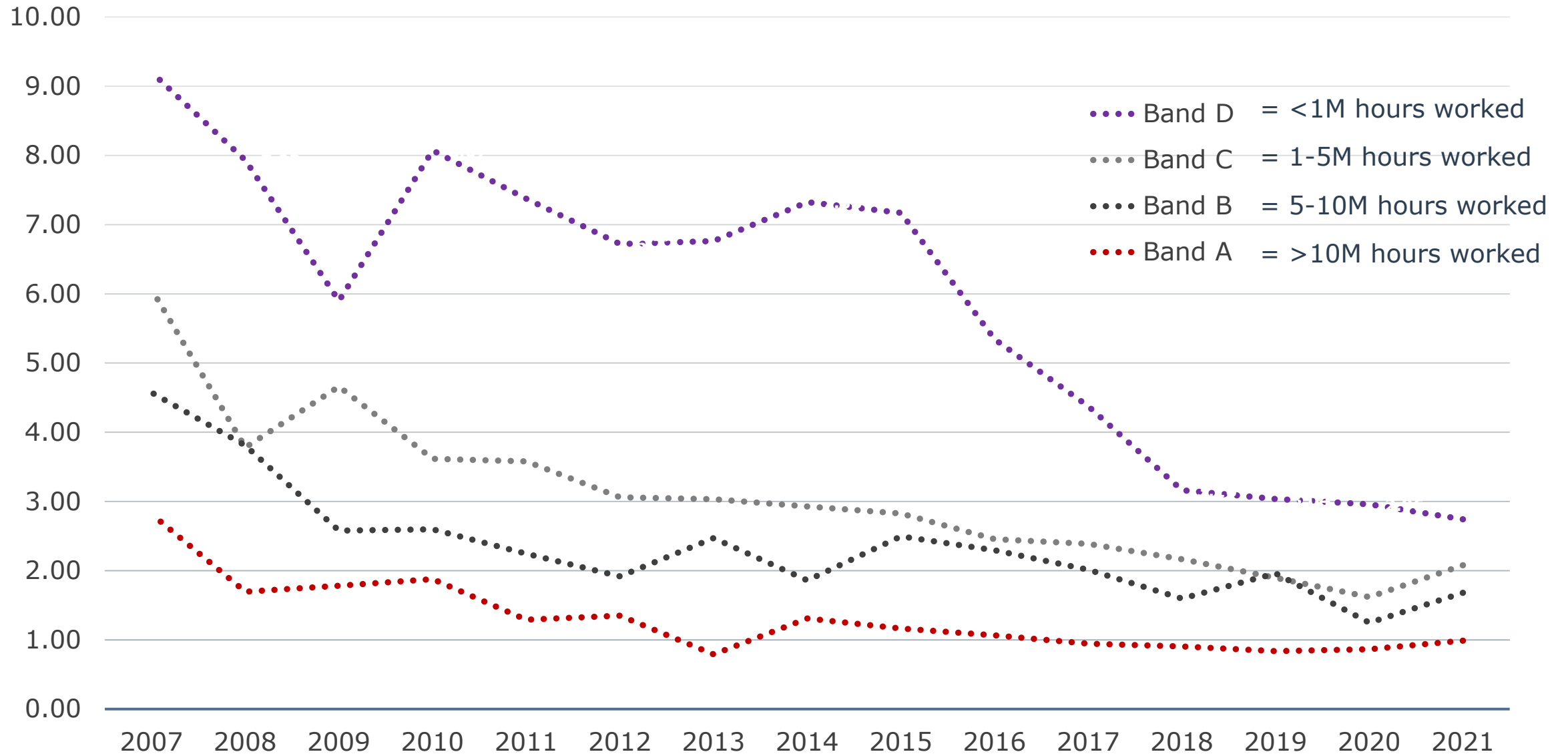


- Banding allows peer-group comparison

LTIFR by Company Band



TRIR by Company Band



LTIFR and TRIR by Company Band



	Band A		Band B		Band C		Band D		IMCA	IMCA
	LTIFR	TRIR	LTIFR	TRIR	LTIFR	TRIR	LTIFR	TRIR	LTIFR	TRIR
2021	0.28	0.99	0.33	1.68	0.59	2.08	0.60	2.74	0.35	1.35
2020	0.24	0.87	0.31	1.25	0.55	1.62	0.96	2.96	0.31	1.09
2019	0.23	0.84	0.50	1.96	0.68	1.89	0.92	3.04	0.33	1.11
2018	0.27	0.90	0.53	1.60	0.58	2.16	0.99	3.16	0.39	1.70
2017	0.22	0.95	0.45	2.01	0.62	2.39	1.21	4.38	0.42	1.67
2016	0.26	1.07	0.55	2.29	0.62	2.45	0.94	5.34	0.43	1.82
2015	0.29	1.16	0.59	2.49	0.56	2.82	1.79	7.17	0.49	2.15
2014	0.29	1.31	0.54	1.86	0.81	2.93	1.63	7.33	0.54	2.18
2013	0.19	0.79	0.62	2.47	0.75	3.03	2.13	6.76	0.54	2.12
2012	0.30	1.35	0.37	1.92	0.99	3.06	2.36	6.72	0.51	1.93
2011	0.27	1.29	0.58	2.24	1.10	3.58	2.01	7.37	0.64	2.40
2010	0.44	1.88	0.84	2.60	1.02	3.62	2.18	8.07	0.73	2.74
2009	0.40	1.78	0.64	2.58	1.41	4.66	1.74	5.90	0.67	2.54
2008	0.43	1.70	1.14	3.81	1.18	3.78	2.41	7.93	0.72	2.50
2007	0.78	2.82	1.24	4.57	1.44	6.07	1.64	9.20	1.09	4.38

Definitions

- Total company hours - hours worked by employees across *the entire organisation*, including overtime.
- Offshore hours - hours worked on vessels, barges, boats or any other offshore structures or installations, based on a 12-hour day.
- Lost time injury frequency rate (LTIFR) - the number of LTIs (including fatalities) per million hours worked.
- Total recordable injuries rate (TRIR) - the number of recordable injuries (fatalities, LTIs and medical treatments) per million hours worked.
- Safety observations frequency rate (SOFR) - the number of safety observations per 200,000 hours worked.
- Fatal accident rate (FAR) - the number of fatalities per 100 million hours worked.
- Data for 1997-2017 was separated into offshore/onshore categories, with an 'overall' combining the two. From 2018, data is collected and reported as offshore/total, with the historical 'overall' figure used for comparison.

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