



Edison Electric
INSTITUTE

2022
OCCUPATIONAL SAFETY
& HEALTH SURVEY

JUNE 2023
Data as of December 31, 2022



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DESCRIPTION OF THE SURVEY

The annual EEI Safety Survey is an industry benchmarking tool. Data is currently collected in five (5) generation categories, three (3) T&D categories, five (5) job classifications, total company, system services, motor vehicle accidents and preventable motor vehicle accidents. The survey data is also filtered by company type and size. All detailed data is available through online reports and/or download files.

The survey is produced under EEI's Occupational Safety & Health Committee and advised by the EEI Recordkeeping Task Force. This year's survey collected data from 73 organizations. This is the twenty-second year in which energy service organizations outside of EEI membership were allowed to participate.

DESCRIPTION OF THE SUMMARY REPORT

The EEI Safety Survey Summary Report has been developed to provide an overview of the data contained in the survey. The report provides a summary of Severity Based Lagging Indicator (SBLI) data, Serious Injury and Fatality (SIF) data, OSHA rates, and survey trends. Additional detailed data is available through online reports and/or downloadable files.

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DATA COLLECTION & REPORTING

To encourage industry wide participation, all reporting areas are optional. A participating organization may only wish to provide Company Total data and not submit data in other reporting areas like T&D or Motor Vehicle Accidents. Validation checks are built into the reporting forms to improve accuracy and all data is reviewed and approved by the EEI Recordkeeping Task Force.

Upon approval of the submitted data, participating organizations may download all survey files. These are provided as spreadsheets and/or pdf files. Spreadsheets may then be filtered and sorted by participating organizations to acquire the level of specificity needed. Data from past years is available to participating organizations through the online report generator.

All data is reported using confidential codes. A Contact Form is available to allow participating organizations to contact other participants by confidential code. The Contact Form can be used to establish benchmarking partners or solicit participation in benchmarking projects.

ABOUT SEVERITY BASED LAGGING INDICATOR (SBLI)

SBLI is an aggregated injury rate that weights injuries by their relative level of severity and aggregates them into one number. Specifically, SBLI is a lagging indicator that uses a weighted sum method and information typically reported on the OSHA 300 log to create an indexed safety score. SBLI was created to address two primary weaknesses associated with traditional injury rates: (1) in TRIR all events are counted equally regardless of injury severity and (2) recordable incidents are rare and random, causing statistical instability of TRIR over short to medium timeframes.

ABOUT THE SERIOUS INJURIES AND FATALITIES (SIF) DATA

EEI has dedicated significant resources to the prevention of serious injuries and fatalities or SIFs. Initial efforts focused on the classification of these incidents. Criteria was developed by subject matter experts from member companies to qualify and classify incidents as EEI SIF incidents. To date, over forty of the EEI member companies have submitted data annually using this criteria. Data collected has provided a baseline metric, Serious Injury Incident Rate (SIIR), associated with SIF incidents.

The criteria for SIFs is reviewed and updated annually to ensure that all life-threatening and life-altering incidents are reported. In addition to SIIR, EEI continues to conduct studies on SIF incidents and their precursors, potential SIFs (PSIFs) and industry safety leading indicator metrics. We encourage all organizations to participate in the SIF sections of the Annual Survey and current studies to broaden the industry information and data available to prevent serious and fatal incidents.

ABOUT THE OSHA INJURY AND ILLNESS DATA

OSHA injury and illness incidence rates are the most common occupational safety benchmarks. OSHA data is nationally reported across multiple industries and based on uniform and well-established criteria. The EEI Safety Survey collects OSHA data from participating organizations and calculates total recordable incident rate (TRIR), days away, restricted and transferred case rate (DART), lost workday case rate (LWDCR), and severity rate. The most common OSHA rates referenced in the electric utility industry are TRIR and DART.

ABOUT THE PANDEMIC (COVID-19) INFORMATION

This is the third year the EEI Safety Survey has collected and will provide data on OSHA recordable Covid-19 cases. Two data sets will be presented.

The Percentile Tables display the average, first decile, and quartiles calculated from the data as reported to OSHA and then adjusted by removing the recordable Covid-19 cases.

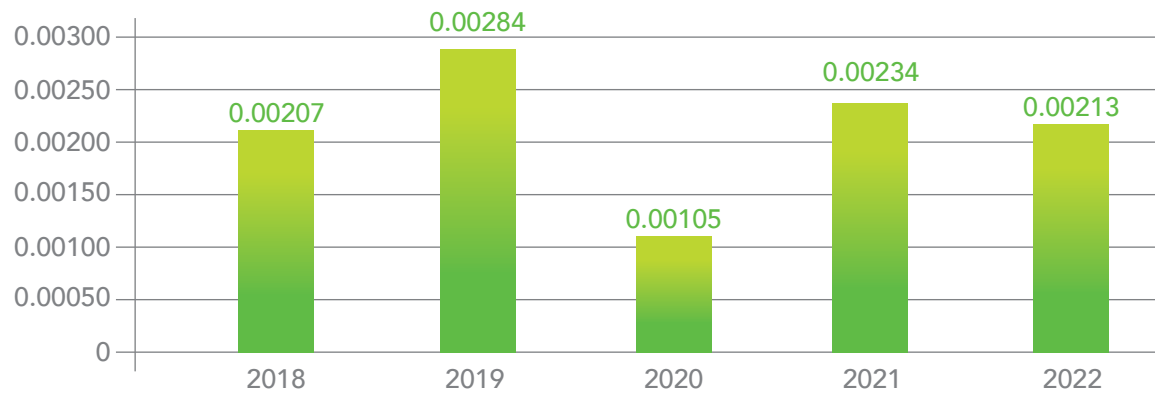
The Survey Trend Charts present the Total Recordable Incident Rates and DART Rates from the primary reporting areas that present the rates as reported to OSHA and then adjusted by removing the reportable Covid-19 cases. All Covid-19 cases included in this analysis were considered Recordable Cases and DART Cases. Records inconsistent with this determination were omitted.

ABOUT THE MOTOR VEHICLE ACCIDENT DATA

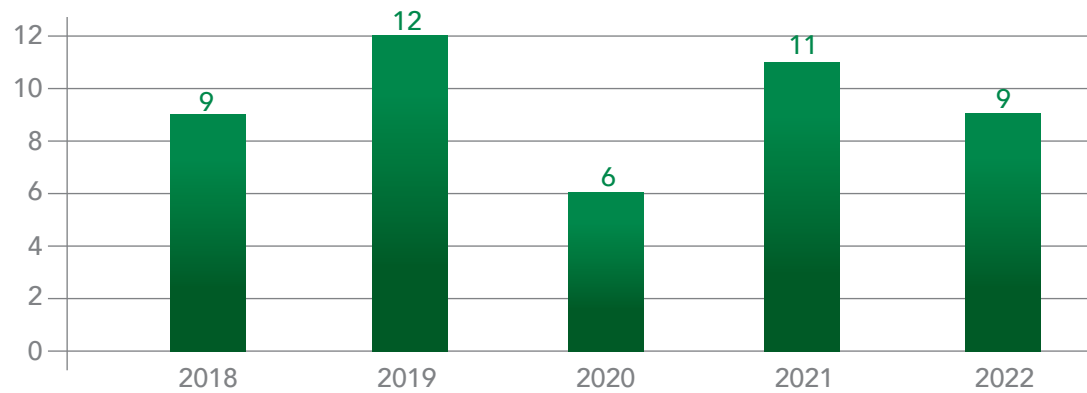
The EEI Safety Survey collects data for total motor vehicle accidents and preventable motor vehicle accidents. Definitions have been established to assist participants in submitting this data. The definitions for total accidents are based on ANSI/ASSE Z15.1-2017; Safe Practices for Motor Vehicle Operations and preventable accident criteria is based on the National Safety Council Rules for Determining Preventability. Accident frequency rates are calculated based on the miles driven.

FATALITY HISTORY

TOTAL COMPANY FATALITY RATE



TOTAL COMPANY FATALITIES

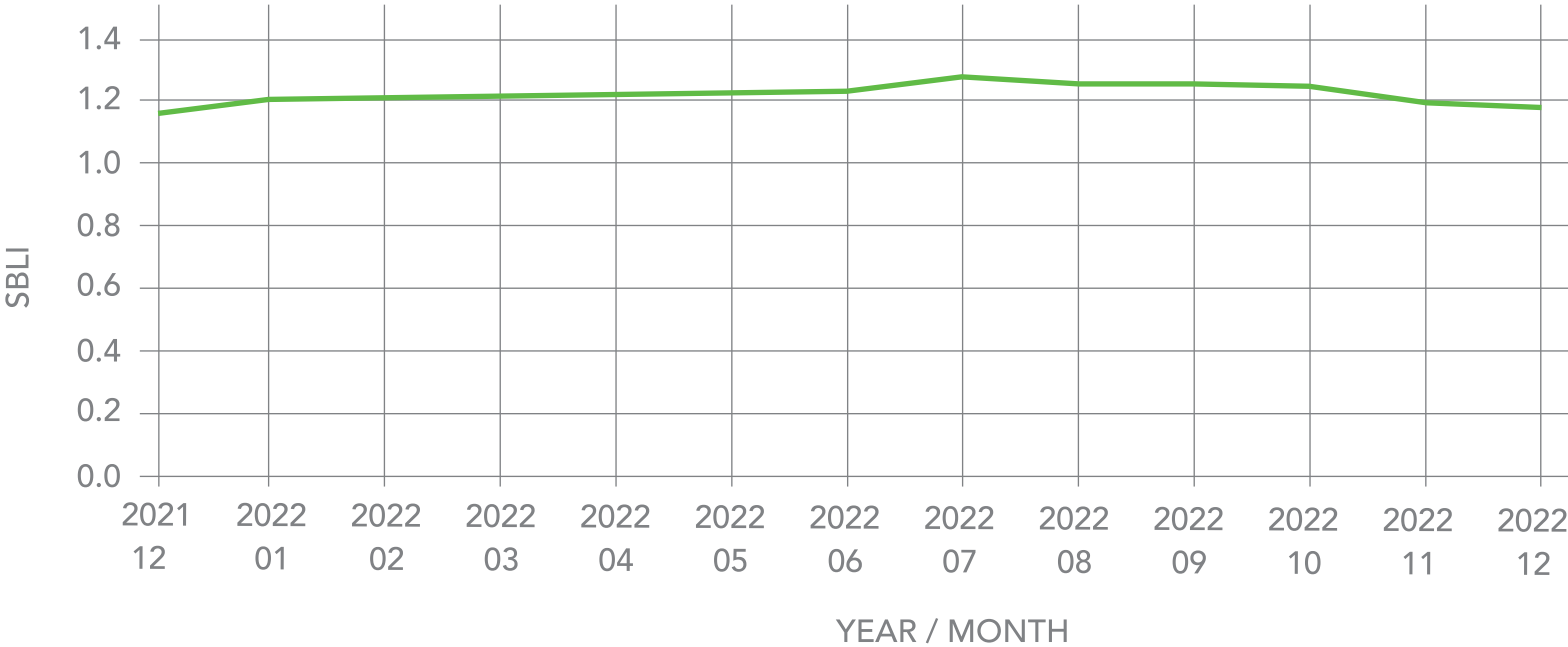


SEVERITY BASED LAGGING INDICATOR (SBLI)

**SEVERITY BASED LAGGING INDICATOR (SBLI)
EEI INDUSTRY ROLLING AVERAGE**

Year	Month	Year/Month	Hours	FA	MT	JTR	DAW	SBLI Rate	12-Month SBLI
2021	1	2021 01	57,143,339	429	97	68	112	1.086	
2021	2	2021 02	77,105,513	468	134	79	108	0.869	
2021	3	2021 03	66,231,206	569	145	69	136	1.163	
2021	4	2021 04	65,237,499	480	135	69	116	1.046	
2021	5	2021 05	60,624,020	502	122	83	123	1.181	
2021	6	2021 06	61,134,081	575	169	78	120	1.245	
2021	7	2021 07	62,057,616	599	136	48	129	1.152	
2021	8	2021 08	61,739,613	563	162	59	128	1.210	
2021	9	2021 09	62,209,451	474	170	74	144	1.299	
2021	10	2021 10	64,205,013	406	155	81	137	1.197	
2021	11	2021 11	58,320,600	355	154	85	133	1.289	
2021	12	2021 12	56,380,857	346	113	61	126	1.156	1.158
2022	1	2022 01	58,282,604	344	108	64	202	1.508	1.193
2022	2	2022 02	59,421,245	378	118	66	133	1.164	1.217
2022	3	2022 03	66,525,546	523	145	67	134	1.131	1.215
2022	4	2022 04	62,467,134	417	130	63	112	1.031	1.213
2022	5	2022 05	62,384,648	511	150	65	156	1.311	1.224
2022	6	2022 06	62,606,369	533	163	87	148	1.348	1.233
2022	7	2022 07	59,615,776	424	170	68	139	1.298	1.245
2022	8	2022 08	64,550,508	521	211	73	131	1.267	1.250
2022	9	2022 09	63,397,031	444	147	70	121	1.110	1.234
2022	10	2022 10	64,056,896	431	138	71	109	1.027	1.220
2022	11	2022 11	59,552,630	370	116	62	90	0.929	1.190
2022	12	2022 12	59,055,897	327	115	56	96	0.935	1.171

SEVERITY BASED LAGGING INDICATOR (SBLI)
EI INDUSTRY ROLLING AVERAGE



SERIOUS INJURY & FATALITY (SIF)

SERIOUS INJURIES & FATALITIES (SIF) BY TYPE

	Total Company	T & D	Transmission	Distribution	Service System	Fossil Plants	Coal Plants	Gas Plants	Hydro Plants	Nuclear Plants	Apprentice Lineworker	Lineworker	Mechanic	Meter Reader	Substation Electrician	Troubleshooter
Bone Fractures	48.8%	42.9%	44.4%	31.0%	66.7%	63.6%	71.4%	0%	53.3%	100.0%	0.0%	27.8%	0%	0%	50.0%	20.0%
Tendon Ligament Tears	22.3%	26.8%	22.2%	31.0%	33.3%	18.2%	14.3%	0%	40.0%	0.0%	100.0%	27.8%	0%	0%	50.0%	40.0%
Concussions	6.5%	5.4%	0.0%	6.9%	0.0%	0.0%	0.0%	0%	0.0%	0.0%	0.0%	11.1%	0%	0%	0.0%	0.0%
Burns	5.4%	7.1%	11.1%	3.4%	0.0%	0.0%	0.0%	0%	6.7%	0.0%	0.0%	11.1%	0%	0%	0.0%	0.0%
Amputations	3.8%	6.3%	11.1%	3.4%	0.0%	9.1%	14.3%	0%	0.0%	0.0%	0.0%	5.6%	0%	0%	0.0%	0.0%
Dislocations	3.8%	3.6%	0.0%	6.9%	0.0%	0.0%	0.0%	0%	0.0%	0.0%	0.0%	5.6%	0%	0%	0.0%	0.0%
Lacerations	2.7%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0%	0.0%	0.0%	0.0%	0.0%	0%	0%	0.0%	0.0%
Fatalities	2.3%	1.8%	11.1%	0.0%	0.0%	0.0%	0.0%	0%	0.0%	0.0%	0.0%	0.0%	0%	0%	0.0%	0.0%
Herniated Disks	1.5%	0.9%	0.0%	3.4%	0.0%	0.0%	0.0%	0%	0.0%	0.0%	0.0%	0.0%	0%	0%	0.0%	0.0%
Heat Exhaustion	1.2%	1.8%	0.0%	6.9%	0.0%	0.0%	0.0%	0%	0.0%	0.0%	0.0%	5.6%	0%	0%	0.0%	20.0%
Eye Injuries	0.8%	0.0%	0.0%	0.0%	0.0%	9.1%	0.0%	0%	0.0%	0.0%	0.0%	0.0%	0%	0%	0.0%	0.0%
Other Injuries	0.8%	1.8%	0.0%	3.4%	0.0%	0.0%	0.0%	0%	0.0%	0.0%	0.0%	5.6%	0%	0%	0.0%	0.0%
Internal Organs	0.0%	0.9%	0.0%	3.4%	0.0%	0.0%	0.0%	0%	0.0%	0.0%	0.0%	0.0%	0%	0%	0.0%	20.0%
Foreign Materials	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%	0.0%	0.0%	0.0%	0.0%	0%	0%	0.0%	0.0%

SIF INCIDENT REPORT TOTAL COMPANY DATA

Code	Fatalities	Amputations	Concussions	Internal Organs	Bone Fractures	Tendon/Ligament Tears	Herniated Disks	Lacerations	Burns	Eye Injuries	Foreign Materials	Heat Exhaustion	# of Dislocations	Other Injuries	Total Cases	SIIR*
5	0	1	0	0	5	2	0	0	1	0	0	1	1	0	11	0.09
6	1	0	0	0	10	3	0	1	2	0	0	0	0	0	17	0.06
10	0	1	1	0	15	5	0	0	0	0	0	0	1	0	23	0.19
12	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.01
13	1	1	0	0	4	0	0	0	0	0	0	0	0	1	7	0.03
21	1	0	0	0	6	4	0	1	0	1	0	0	0	0	13	0.16
28	0	0	0	0	4	2	0	0	0	0	0	0	0	0	6	0.39
38	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.09
41	0	0	0	0	6	2	0	0	0	0	0	0	3	0	11	0.1
81	0	1	3	0	5	8	0	0	1	0	0	0	0	0	18	0.28
91	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	0.1
93	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3	0.02
103	0	0	1	0	1	0	0	0	0	0	0	0	1	0	3	0.1
104	0	0	0	0	5	3	1	0	0	0	0	0	1	0	10	0.11
105	1	0	1	0	5	6	0	0	1	0	0	2	0	0	16	0.09
126	0	0	1	0	3	1	0	0	2	0	0	0	0	0	7	0.06
137	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	0.15
150	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3	0.05
151	0	0	0	0	2	3	0	0	0	0	0	0	1	0	6	0.36
152	0	0	1	0	0	3	0	0	0	1	0	0	0	1	6	0.53
153	0	0	0	0	3	1	0	1	2	0	0	0	0	0	7	0.05
165	0	0	1	0	0	0	2	0	0	0	0	0	0	0	3	0.04
178	0	1	0	0	6	0	0	0	0	0	0	0	0	0	7	0.05
179	0	2	1	0	1	0	0	0	0	0	0	0	0	0	4	0.22
182	1	0	2	0	11	1	0	2	2	0	0	0	1	0	20	0.13
183	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.02
208	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	0.18
250	0	0	0	0	6	1	0	0	0	0	0	0	0	0	7	0.04
260	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.17
274	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.02
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
301	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0.09

*Serious Injury Incidence Rate (SIIR)
This rate will be calculated using the SIIR formula (# cases x 200,000/hours worked).

Chart continued on next page.

SIF INCIDENT REPORT

TOTAL COMPANY DATA - CONTINUED

Code	Fatalities	Amputations	Concussions	Internal Organs	Bone Fractures	Tendon/Ligament Tears	Herniated Disks	Lacerations	Burns	Eye Injuries	Foreign Materials	Heat Exhaustion	# of Dislocations	Other Injuries	Total Cases	SIIR*	
336	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2	0.04	
337	0	0	1	0	5	6	0	1	1	0	0	0	1	0	15	0.05	
338	0	0	0	0	5	0	1	0	0	0	0	0	0	0	6	0.39	
352	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.03	
355	0	0	2	0	0	1	0	0	0	0	0	0	0	0	3	0.52	
366	0	0	0	0	2	0	0	0	1	0	0	0	0	0	3	0.11	
370	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
373	0	0	0	0	1	2	0	1	0	0	0	0	0	0	4	0.39	
TOTALS	6	10	17	0	127	58	4	7	14	2	0	3	10	2	260		
																Peer Group Rate	0.08
																Column Average	0.14

Percentile Table

	SIIR*
D1	0.02
Q1	0.04
Q2	0.09
Q3	0.18

*Serious Injury Incidence Rate (SIIR)
 This rate will be calculated using the SIIR formula (# cases x 200,000/hours worked).

SIF INCIDENT REPORT T&D DATA

Code	Fatalities	Amputations	Concussions	Internal Organs	Bone Fractures	Tendon/Ligament Tears	Herniated Disks	Lacerations	Burns	Eye Injuries	Foreign Materials	Heat Exhaustion	# of Dislocations	Other Injuries	Total Cases	SIIR*
5	0	1	0	0	5	2	0	0	1	0	0	0	1	0	10	0.14
10	0	1	1	0	14	5	0	0	0	0	0	0	1	0	22	0.22
12	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.02
28	0	0	0	0	4	2	0	0	0	0	0	0	0	0	6	0.39
38	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.13
41	0	0	0	0	2	2	0	0	0	0	0	0	0	0	4	0.12
44	0	0	0	0	1	1	0	0	1	0	0	0	0	0	3	0.07
81	0	1	2	0	3	3	0	0	1	0	0	0	0	0	10	0.2
103	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2	0.13
104	0	0	0	0	0	1	1	0	0	0	0	0	1	0	3	0.12
105	1	0	1	0	3	6	0	0	1	0	0	2	0	0	14	0.16
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	0	0	1	0	0	2	0	0	0	0	0	0	0	1	4	1.47
153	0	0	0	0	1	1	0	0	2	0	0	0	0	0	4	0.1
154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0.03
260	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.59
274	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.03
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300	0	1	0	0	3	0	0	0	0	0	0	0	0	0	4	0.12
301	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.1
353	0	0	0	0	6	4	0	1	0	0	0	0	0	0	11	0.69
354	1	2	0	1	0	0	0	0	2	0	0	0	0	1	7	0.03
TOTALS	2	7	6	1	48	30	1	1	8	0	0	2	4	2	112	

Peer Group Rate 0.11

Column Average 0.21

Percentile Table

	SIIR*
D1	0
Q1	0.03
Q2	0.12
Q3	0.19

*Serious Injury Incidence Rate (SIIR)

This rate will be calculated using the SIIR formula (# cases x 200,000/hours worked).

SIF INCIDENT REPORT FOSSIL DATA

Code	Fatalities	Amputations	Concussions	Internal Organs	Bone Fractures	Tendon/Ligament Tears	Herniated Disks	Lacerations	Burns	Eye Injuries	Foreign Materials	Heat Exhaustion	# of Dislocations	Other Injuries	Total Cases	SIIR*	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
41	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.08	
93	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08	
103	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.23	
104	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.36	
105	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.04	
150	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	0.39	
152	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2	1.37	
153	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.08	
TOTALS	0	1	0	0	7	2	0	0	0	1	0	0	0	0	11		
																Peer Group Rate	0.12
																Column Average	0.24

Percentile Table

	SIIR*
D1	0
Q1	0.01
Q2	0.08
Q3	0.34

*Serious Injury Incidence Rate (SIIR)
This rate will be calculated using the SIIR formula (# cases x 200,000/hours worked).

SIF INCIDENT REPORT NUCLEAR DATA

Code	Fatalities	Amputations	Concussions	Internal Organs	Bone Fractures	Tendon/Ligament Tears	Herniated Disks	Lacerations	Burns	Eye Injuries	Foreign Materials	Heat Exhaustion	# of Dislocations	Other Injuries	Total Cases	SIIR*	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
105	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.08	
150	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.04	
153	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.02	
183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3		
																Peer Group Rate	0.01
																Column Average	0.02

Percentile Table

	SIIR*
D1	0
Q1	0
Q2	0
Q3	0.03

*Serious Injury Incidence Rate (SIIR)

This rate will be calculated using the SIIR formula (# cases x 200,000/hours worked).

SIF INCIDENT REPORT HYDRO DATA

Code	Fatalities	Amputations	Concussions	Internal Organs	Bone Fractures	Tendon/Ligament Tears	Herniated Disks	Lacerations	Burns	Eye Injuries	Foreign Materials	Heat Exhaustion	# of Dislocations	Other Injuries	Total Cases	SIIR*
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	6	6	0	0	1	0	0	0	0	0	13	0.16
93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
183	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.19
TOTALS	0	0	0	0	8	6	0	0	1	0	0	0	0	0	15	
															Peer Group Rate	0.15
															Column Average	0.06

Percentile Table

	SIIR*
D1	0
Q1	0
Q2	0
Q3	0.16

*Serious Injury Incidence Rate (SIIR)

This rate will be calculated using the SIIR formula (# cases x 200,000/hours worked).

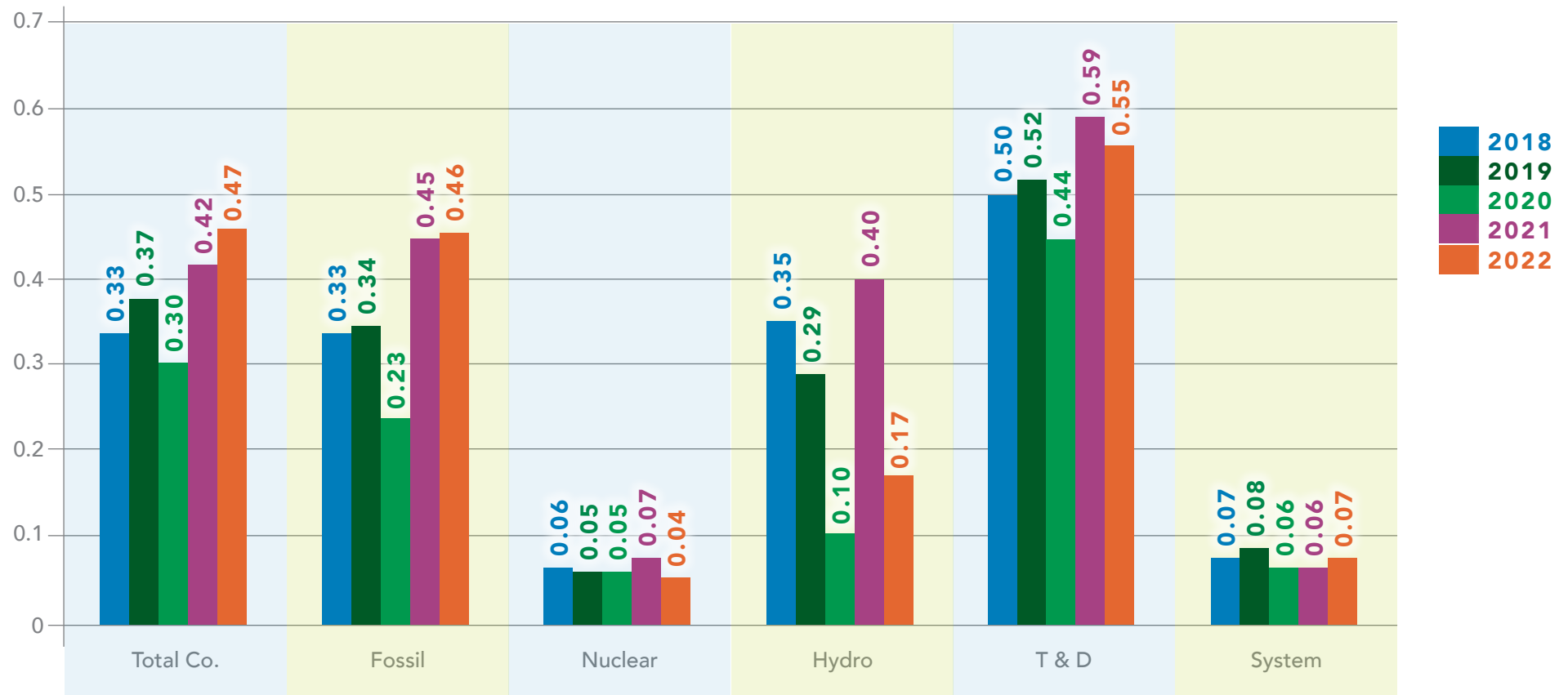
SURVEY TREND RESULTS

INDUSTRY INJURY & ILLNESS EXPERIENCE SUMMARY

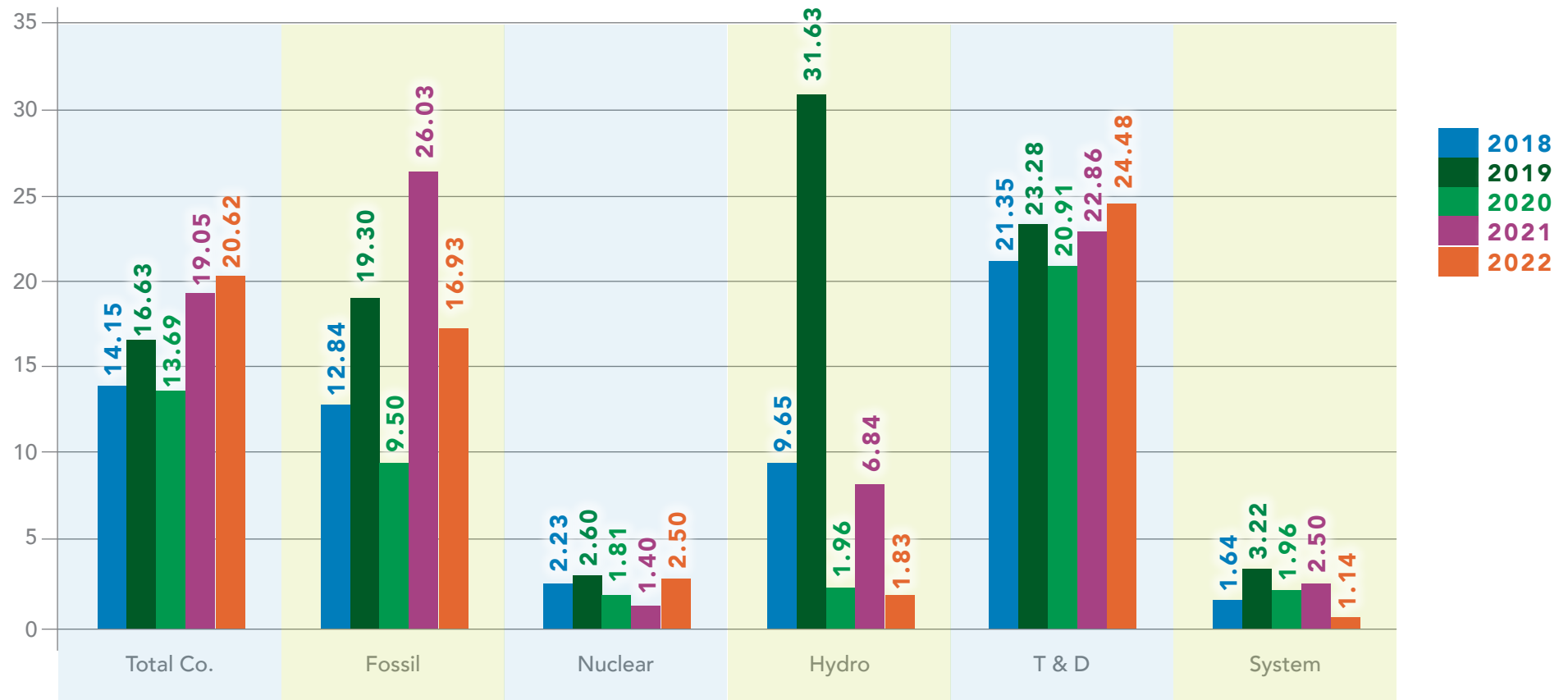
	2019	2020	2021	2022	2021-2022
Hours of Exposure	846,304,928 (14,847,454)	1,140,502,013 (18,395,193)	941,737,466 (13,453,392)	843,187,404 (13,822,744)	-98,550,062
Number of Employees	416,095 (7,299)	460,354 (7,425)	474,658 (6,780)	425,569 (6,976)	-49,089
Deaths	12 0.00	6 0.00	11 0.00	9 0.00	-2
Restricted & Days Away Cases	2,933 (51.0)	2,926 (47.0)	3,258 (46.0)	3,093 (50.0)	-165
Days Away Cases	1,533 (26.0)	1,709 (27.0)	1,977 (28.0)	1,983 (32.0)	6
Total Days Away	70,364 (1,234.0)	78,070 (1,259.0)	89,697 (1,281.0)	86,921 (1,424.0)	-2,776
Total Days OTJ Transfer or Restriction	100,574 (1,764.0)	95,034 (1,532.0)	94,883 (1,355.0)	74,080 (1,214.0)	-20,803
Other Recordable Cases (medical cases)	2,306 40.0	1,888 (30.0)	2,074 (29.0)	1,919 (31.0)	-155
Total Cases	5,251 (92.0)	4,820 (77.0)	5,343 (76.0)	5,021 (82.0)	-322
Lost Work Cases	1,545 (27.0)	1,715 (27.0)	1,988 (28.0)	1,992 (32.0)	4
DART Incidence Rate	0.69	0.51	0.69	0.73	0.04
Lost Work Day Case Rate	0.37	0.30	0.42	0.47	0.05
Recordable Incident Rate	1.24	0.85	1.13	1.19	0.06
Severity Rate	16.63	13.69	19.05	20.62	1.57

Numbers in parenthesis represent the per company average based upon participating companies for that year.

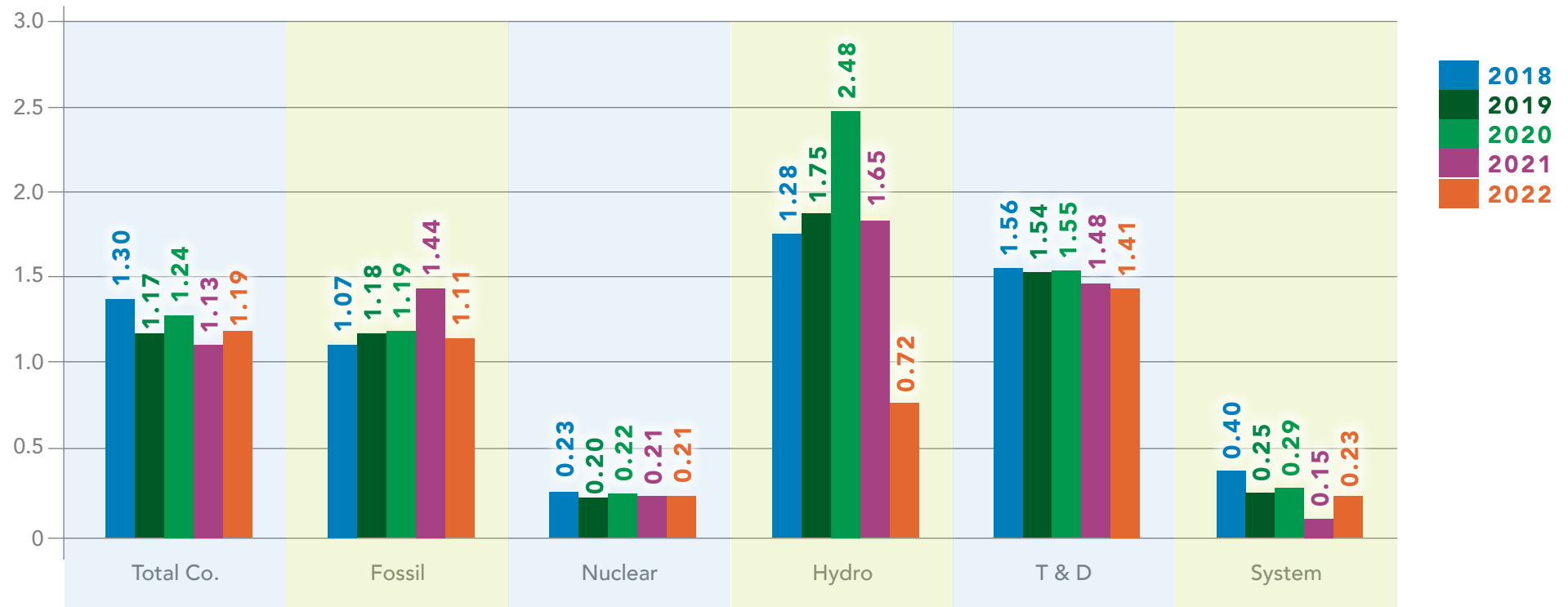
LOST WORK DAYS CASE RATE BY TOTAL COMPANY, FOSSIL, NUCLEAR, HYDRO, T&D, AND SYSTEM



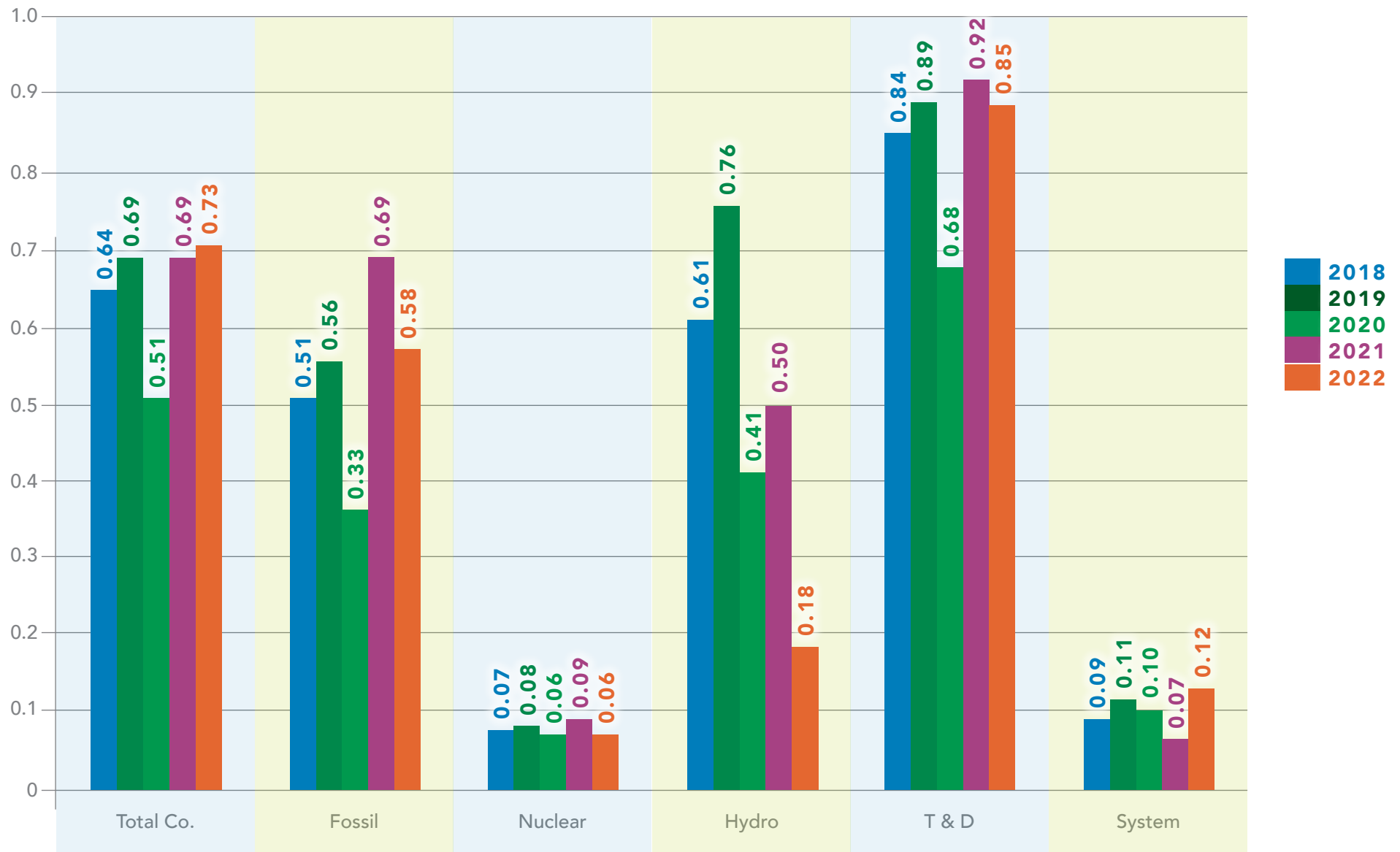
**SEVERITY RATE
BY TOTAL COMPANY, FOSSIL, NUCLEAR, HYDRO, T&D, AND SYSTEM**



**TOTAL RECORDABLE CASES INCIDENT RATE / OSHA RATE
BY TOTAL COMPANY, FOSSIL, NUCLEAR, HYDRO, T&D, AND SYSTEM**



**DART REPORT RATE
BY TOTAL COMPANY, FOSSIL, NUCLEAR, HYDRO, T&D, AND SYSTEM**



TOTAL COMPANY INFORMATION

INDUSTRY INJURY & ILLNESS TOTALS TOTAL COMPANY

Codes	Company Type	Total Number of Hours	Employees	Deaths	Total Days Away, Restricted or Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Total Days OTJ Transfer or Restriction	Total Days Away	Total Days Away, Restricted or Transferred	Intl Data	Gas Data	Alt Energy	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate	Severity Rate
5	C	24,916,923	12,666	0	147	119	28	103	250	2,036	7,122	9,158	No	Yes	No	2.01	1.18	0.96	57.17
6	C	61,546,636	30,712	1	67	52	15	58	126	2,113	3,112	5,225	No	No	No	0.41	0.22	0.17	10.11
10	B	24,367,407	12,184	0	88	56	32	51	139	1,084	1,439	2,523	No	No	No	1.14	0.72	0.46	11.81
12	A	18,697,577	8,900	0	23	20	3	10	33	184	1,216	1,400	No	No	No	0.35	0.25	0.21	13.01
13	C	51,472,190	25,902	1	172	97	75	235	408	8,613	5,793	14,406	No	Yes	No	1.59	0.67	0.38	22.51
21	C	16,268,365	8,626	1	91	63	28	26	118	765	2,830	3,595	No	Yes	No	1.45	1.12	0.77	34.79
27	B	2,082,156	1,039	0	14	5	9	10	24	369	51	420	Yes	Yes	No	2.31	1.34	0.48	4.90
28	C	3,060,000	1,530	0	17	9	8	7	24	976	321	1,297	No	Yes	No	1.57	1.11	0.59	20.98
38	D	4,520,372	2,392	0	3	2	1	21	24	429	38	467	No	No	No	1.06	0.13	0.09	1.68
41	C	22,840,860	10,690	0	45	22	23	19	64	1,950	1,083	3,033	No	No	No	0.56	0.39	0.19	9.48
47	C	29,422,561	15,025	0	79	50	29	28	107	1,963	2,053	4,016	No	Yes	No	0.73	0.54	0.34	13.96
50	B	6,166,433	3,266	0	31	21	10	22	53	715	1,099	1,814	No	No	No	1.72	1.01	0.68	35.64
53	D	4,835,053	2,476	0	6	3	3	7	13	44	235	279	No	Yes	No	0.54	0.25	0.12	9.72
81	D	12,718,000	6,359	0	114	54	60	79	193	3,467	4,164	7,631	No	No	No	3.04	1.79	0.85	65.48
91	D	6,221,603	3,176	0	10	6	4	24	34	270	367	637	No	Yes	No	1.09	0.32	0.19	11.80
93	A	24,496,775	10,665	1	14	6	8	32	47	1,262	626	1,888	No	No	No	0.38	0.11	0.05	5.11
103	D	6,099,828	3,301	0	53	17	36	27	80	1,476	457	1,933	No	Yes	No	2.62	1.74	0.56	14.98
104	C	18,668,596	9,316	0	65	25	40	39	104	2,663	1,468	4,131	No	Yes	Yes	1.11	0.70	0.27	15.73
105	A	35,352,696	16,847	1	80	60	20	89	170	839	2,278	3,117	No	No	No	0.96	0.45	0.34	12.89
110	D	2,307,352	1,298	0	4	4	0	6	10	164	157	321	No	No	No	0.87	0.35	0.35	13.61
116	D	19,543,249	9,604	0	85	59	26	29	114	1,545	3,160	4,705	No	Yes	No	1.17	0.87	0.60	32.34
126	C	24,523,644	12,769	0	295	232	63	93	388	4,032	4,330	8,362	No	Yes	Yes	3.16	2.41	1.89	35.31
128	B	1,483,127	740	0	5	4	1	7	12	9	41	50	No	No	No	1.62	0.67	0.54	5.53

Chart continued on next page.

INDUSTRY INJURY & ILLNESS TOTALS
TOTAL COMPANY - CONTINUED

Codes	Company Type	Total Number of Hours	Employees	Deaths	Total Days Away, Restricted or Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Total Days OTJ Transfer or Restriction	Total Days Away	Total Days Away, Restricted or Transferred	Intl Data	Gas Data	Alt Energy	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate	Severity Rate
137	A	2,606,875	1,537	0	68	60	8	15	83	636	1,548	2,184	No	No	No	6.37	5.22	4.60	118.76
150	A	11,646,000	5,823	0	24	16	8	3	27	291	485	776	No	No	No	0.46	0.41	0.27	8.33
151	D	3,374,970	1,665	0	91	80	11	14	105	1,115	1,685	2,800	No	Yes	No	6.22	5.39	4.74	99.85
152	A	2,265,133	1,141	0	6	5	1	8	14	322	256	578	No	No	No	1.24	0.53	0.44	22.60
153	C	25,773,118	12,015	0	32	12	20	33	65	33	20	53	No	Yes	No	0.50	0.25	0.09	0.16
157	B	3,726,036	2,017	0	15	8	7	19	34	652	282	934	No	No	No	1.82	0.81	0.43	15.14
159	D	5,331,091	2,720	0	20	16	4	9	29	665	570	1,235	No	Yes	No	1.09	0.75	0.60	21.38
165	D	13,499,689	7,000	0	72	25	47	42	114	3,131	1,176	4,307	No	Yes	Yes	1.69	1.07	0.37	17.42
178	D	25,475,015	12,991	0	110	104	6	47	157	154	3,567	3,721	No	Yes	No	1.23	0.86	0.82	28.00
179	G	3,710,041	2,017	0	10	3	7	10	20	423	458	881	No	No	No	1.08	0.54	0.16	24.69
182	D	31,864,109	17,862	1	233	129	104	121	355	5,943	9,332	15,275	No	Yes	No	2.23	1.46	0.81	58.57
183	E	18,188,490	10,618	0	2	2	0	27	29	0	195	195	Yes	No	No	0.32	0.02	0.02	2.14
184	D	4,891,917	2,352	0	14	2	12	3	17	580	57	637	No	No	No	0.70	0.57	0.08	2.33
204	D	1,457,189	714	0	10	7	3	7	17	392	251	643	No	Yes	No	2.33	1.37	0.96	34.45
208	C	2,267,745	1,083	0	6	4	2	0	6	26	77	103	No	Yes	No	0.53	0.53	0.35	6.79
211	D	6,123,254	3,279	0	13	10	3	20	33	140	415	555	No	Yes	No	1.08	0.42	0.33	13.55
250	C	34,434,398	17,183	0	61	34	27	29	90	1,099	2,109	3,208	No	Yes	Yes	0.52	0.35	0.20	12.25
260	B	2,304,753	1,234	0	12	10	2	4	16	4	289	293	Yes	No	No	1.39	1.04	0.87	25.08
271	B	4,834,731	2,559	0	64	58	6	5	69	603	1,314	1,917	No	No	No	2.85	2.65	2.40	54.36
273	D	11,878,257	5,842	0	12	11	1	4	16	41	370	411	Yes	No	No	0.27	0.20	0.19	6.23
274	G	9,851,593	4,689	0	14	4	10	33	47	828	141	969	No	No	No	0.95	0.28	0.08	2.86
295	B	2,710,103	1,780	0	10	2	8	0	10	382	57	439	Yes	No	No	0.74	0.74	0.15	4.21
297	A	9,147,429	4,652	1	11	8	3	25	37	51	323	374	No	No	No	0.81	0.24	0.17	7.06

Chart continued on next page.

INDUSTRY INJURY & ILLNESS TOTALS TOTAL COMPANY - CONTINUED

Codes	Company Type	Total Number of Hours	Employees	Deaths	Total Days Away, Restricted or Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Total Days OTJ Transfer or Restriction	Total Days Away	Total Days Away, Restricted or Transferred	Intl Data	Gas Data	Alt Energy	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate	Severity Rate
301	G	6,962,934	3,894	0	8	4	4	16	24	487	87	574	No	No	No	0.69	0.23	0.11	2.50
302	B	4,896,173	2,374	0	76	44	32	6	82	1,143	675	1,818	No	No	Yes	3.35	3.10	1.80	27.57
315	D	19,626,583	8,764	1	94	74	20	127	222	1,971	3,243	5,214	No	No	No	2.26	0.96	0.75	33.05
336	D	9,126,419	4,865	0	47	17	30	36	83	1,892	810	2,702	No	Yes	No	1.82	1.03	0.37	17.75
337	C	59,432,962	29,769	0	287	143	144	106	393	9,223	7,367	16,590	No	Yes	Yes	1.32	0.97	0.48	24.79
338	D	3,089,939	1,648	0	27	19	8	6	33	510	1,469	1,979	No	Yes	No	2.14	1.75	1.23	95.08
352	D	6,101,220	3,122	0	6	1	5	10	16	372	180	552	No	Yes	No	0.52	0.20	0.03	5.90
355	D	1,157,097	511	0	9	5	4	4	13	92	412	504	No	Yes	No	2.25	1.56	0.86	71.21
356	E	7,362,217	3,457	0	21	18	3	19	40	379	745	1,124	No	No	Yes	1.09	0.57	0.49	20.24
360	C	9,616,410	5,247	0	22	16	6	13	35	922	792	1,714	No	No	No	0.73	0.46	0.33	16.47
361	D	46,072,149	23,957	1	36	24	12	50	87	134	1,199	1,333	No	No	No	0.38	0.16	0.10	5.20
366	D	5,608,393	2,990	0	23	10	13	16	39	812	1,147	1,959	No	Yes	No	1.39	0.82	0.36	40.90
370	E	1,129,963	546	0	0	0	0	2	2	0	0	0	No	No	Yes	0.35	0.00	0.00	0.00
373	B	2,030,808	983	0	15	10	5	5	20	1,248	226	1,474	No	No	No	1.97	1.48	0.98	22.26
381	G	2,000,798	1,186	0	4	2	2	3	7	416	152	568	No	No	No	0.70	0.40	0.20	15.19
Totals		843,187,404	425,569	9	3,093	1,983	1,110	1,919	5,021	74,080	86,921	161,001							

Peer Group Rate				
1.19	0.73	0.47	20.62	
Column Average				
1.46	0.95	0.63	23.65	
Percentile Table				
D1	0.40	0.20	0.08	2.67
Q1	0.69	0.34	0.19	6.97
Q2	1.11	0.67	0.37	15.19
Q3	1.87	1.11	0.77	29.45

TRANSMISSION AND DISTRIBUTION INFORMATION

INDUSTRY INJURY & ILLNESS TOTALS TRANSMISSION & DISTRIBUTION

Codes	Total Number of Hours	Employees	Deaths	Total Days Away, Restricted or Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Total Days OTJ Transfer or Restriction	Total Days Away	Total Days Away, Restricted or Transferred	Intl Data	Gas Data	Alt Energy	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate	Severity Rate
5	14,058,162	6,909	0	124	99	25	77	201	1,726	5,416	7,142	No	No	No	2.86	1.76	1.41	77.05
6	20,505,970	10,231	0	48	40	8	41	89	1,109	2,767	3,876	No	No	No	0.87	0.47	0.39	26.99
10	20,114,963	10,057	0	84	52	32	49	133	1,073	1,400	2,473	No	No	No	1.32	0.84	0.52	13.92
12	9,797,618	4,476	0	21	19	2	4	25	147	1,161	1,308	No	No	No	0.51	0.43	0.39	23.70
13	10,494,000	5,247	0	62	36	26	63	125	3,191	1,784	4,975	No	No	No	2.38	1.18	0.69	34.00
28	3,060,000	1,530	0	17	9	8	7	24	976	321	1,297	No	Yes	No	1.57	1.11	0.59	20.98
38	1,586,126	841	0	2	2	0	6	8	336	38	374	No	No	No	1.01	0.25	0.25	4.79
41	6,517,830	2,562	0	18	8	10	8	26	1,054	417	1,471	No	No	No	0.80	0.55	0.25	12.80
44	8,712,731	3,968	0	23	16	7	23	46	389	564	953	No	Yes	No	1.06	0.53	0.37	12.95
47	17,195,781	8,936	0	55	33	22	16	71	1,235	1,160	2,395	No	No	No	0.83	0.64	0.38	13.49
81	9,976,000	4,988	0	71	31	40	65	136	2,129	2,313	4,442	No	No	No	2.73	1.42	0.62	46.37
103	3,112,978	1,694	0	41	13	28	21	62	1,155	343	1,498	No	Yes	No	3.98	2.63	0.84	22.04
104	4,832,813	2,412	0	33	10	23	15	48	578	167	745	No	No	No	1.99	1.37	0.41	6.91
105	17,709,385	8,511	1	67	49	18	42	110	810	2,005	2,815	No	No	No	1.24	0.76	0.55	22.64
150	3,152,000	1,576	0	12	6	6	1	13	77	117	194	No	No	No	0.82	0.76	0.38	7.42
152	543,073	277	0	4	3	1	4	8	276	65	341	No	No	No	2.95	1.47	1.10	23.94
153	8,387,252	3,993	0	26	8	18	25	51	18	8	26	No	No	No	1.22	0.62	0.19	0.19
154	13,789,723	6,310	0	61	44	17	11	72	687	1,773	2,460	No	No	No	1.04	0.88	0.64	25.71
156	6,433,515	2,861	0	35	19	16	6	41	465	338	803	No	Yes	No	1.27	1.09	0.59	10.51
178	11,035,994	5,255	0	66	64	2	26	92	19	2,345	2,364	No	No	No	1.67	1.20	1.16	42.50
211	581,777	242	0	4	3	1	5	9	15	223	238	No	Yes	No	3.09	1.38	1.03	76.66
260	677,721	366	0	7	6	1	2	9	3	266	269	Yes	No	No	2.66	2.07	1.77	78.50

Chart continued on next page.

**INDUSTRY INJURY & ILLNESS TOTALS
TRANSMISSION & DISTRIBUTION - CONTINUED**

Codes	Total Number of Hours	Employees	Deaths	Total Days Away, Restricted or Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Total Days OTJ Transfer or Restriction	Total Days Away	Total Days Away, Restricted or Transferred	Intl Data	Gas Data	Alt Energy	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate	Severity Rate
271	1,633,585	847	0	35	31	4	4	39	413	959	1,372	No	No	No	4.77	4.29	3.80	117.41
274	7,116,824	3,411	0	12	3	9	27	39	755	133	888	No	No	No	1.10	0.34	0.08	3.74
295	1,009,889	646	0	3	0	3	0	3	78	0	78	Yes	No	No	0.59	0.59	0.00	0.00
300	6,806,392	3,115	0	54	38	16	9	63	1,594	1,320	2,914	No	Yes	No	1.85	1.59	1.12	38.79
301	4,038,243	2,257	0	5	3	2	16	21	187	68	255	No	No	No	1.04	0.25	0.15	3.37
331	1,074,968	521	0	0	0	0	0	0	0	0	0	No	No	No	0.00	0.00	0.00	0.00
353	3,187,429	1,200	0	6	3	3	13	19	258	93	351	No	No	No	1.19	0.38	0.19	5.84
354	44,961,002	20,680	1	111	76	35	151	263	3,339	4,555	7,894	No	No	No	1.17	0.49	0.34	20.26
360	3,679,823	2,329	0	17	12	5	8	25	730	545	1,275	No	No	No	1.36	0.92	0.65	29.62
372	1,252,847	675	0	4	1	3	7	11	68	74	142	No	No	No	1.76	0.64	0.16	11.81
374	1,414,106	892	0	9	4	5	1	10	279	114	393	No	No	No	1.41	1.27	0.57	16.12
Totals	268,450,520	129,815	2	1,137	741	396	753	1,892	25,169	32,852	58,021							

Peer Group Rate			
1.41	0.85	0.55	24.48
Column Average			
1.64	1.04	0.65	25.79
Percentile Table			
D1	0.73	0.31	0.13
Q1	1.03	0.52	0.25
Q2	1.27	0.84	0.52

FOSSIL POWER PLANT INFORMATION

INDUSTRY INJURY & ILLNESS TOTALS FOSSIL PLANTS

Codes	Total Number of Hours	Employees	Deaths	Total Days Away, Restricted or Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Total Days OTJ Transfer or Restriction	Total Days Away	Total Days Away, Restricted or Transferred	Intl Data	Gas Data	Alt Energy	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate	Severity Rate
5	222,581	107	0	1	1	0	0	1	0	141	141	No	No	No	0.90	0.90	0.90	126.70
6	5,743,755	2,866	1	3	3	0	2	6	105	52	157	No	Yes	No	0.21	0.10	0.10	1.81
12	2,154,022	1,006	0	1	1	0	2	3	0	55	55	No	No	No	0.28	0.09	0.09	5.11
38	801,550	425	0	0	0	0	12	12	0	0	0	No	No	No	2.99	0.00	0.00	0.00
41	2,564,897	1,055	0	5	2	3	1	6	145	253	398	No	No	No	0.47	0.39	0.16	19.73
93	2,363,014	1,079	0	1	0	1	5	6	180	0	180	No	No	No	0.51	0.08	0.00	0.00
103	860,852	516	0	5	2	3	4	9	148	41	189	No	Yes	No	2.09	1.16	0.46	9.53
104	1,117,898	558	0	10	4	6	6	16	312	402	714	No	No	No	2.86	1.79	0.72	71.92
105	4,630,803	2,142	0	3	3	0	31	34	24	227	251	No	No	No	1.47	0.13	0.13	9.80
150	1,038,000	519	0	9	5	4	1	10	187	107	294	No	No	No	1.93	1.73	0.96	20.62
152	292,280	137	0	2	2	0	0	2	46	191	237	No	No	No	1.37	1.37	1.37	130.70
153	2,467,780	1,080	0	1	1	0	2	3	0	1	1	No	No	No	0.24	0.08	0.08	0.08
211	174,133	79	0	1	1	0	1	2	0	14	14	No	Yes	No	2.30	1.15	1.15	16.08
271	1,154,696	591	0	23	23	0	1	24	0	294	294	No	No	No	4.16	3.98	3.98	50.92
273	3,403,277	1,619	0	11	11	0	3	14	0	370	370	Yes	No	No	0.82	0.65	0.65	21.74
356	3,959,998	1,801	0	19	16	3	16	35	379	720	1,099	No	No	No	1.77	0.96	0.81	36.36
360	1,729,169	985	0	5	4	1	5	10	192	67	259	No	No	No	1.16	0.58	0.46	7.75
Totals	34,678,705	16,565	1	100	79	21	92	193	1,718	2,935	4,653							

Peer Group Rate

1.11	0.58	0.46	16.93
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Column Average

1.50	0.89	0.71	31.11
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Percentile Table

D1	0.25	0.08	0.01	0.01
Q1	0.49	0.10	0.12	4.01
Q2	1.37	0.65	0.46	16.08
Q3	2.16	1.23	0.92	41.22

NUCLEAR POWER PLANT INFORMATION

INDUSTRY INJURY & ILLNESS TOTALS NUCLEAR PLANTS

Codes	Total Number of Hours	Employees	Deaths	Total Days Away, Restricted or Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Total Days OTJ Transfer or Restriction	Total Days Away	Total Days Away, Restricted or Transferred	Intl Data	Gas Data	Alt Energy	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate	Severity Rate
5	131,274	74	0	0	0	0	0	0	0	0	0	No	No	No	0.00	0.00	0.00	0.00
6	12,753,244	6,363	0	0	0	0	4	4	0	0	0	No	No	No	0.06	0.00	0.00	0.00
12	2,110,582	990	0	1	0	1	2	3	37	0	37	No	No	No	0.28	0.09	0.00	0.00
13	1,972,000	986	0	2	2	0	7	9	92	277	369	No	No	No	0.91	0.20	0.20	28.09
41	1,759,341	750	0	7	4	3	2	9	536	192	728	No	No	No	1.02	0.80	0.45	21.83
47	3,009,257	1,529	0	3	3	0	1	4	0	15	15	No	No	No	0.27	0.20	0.20	1.00
93	8,231,201	3,377	0	1	1	0	3	4	0	100	100	No	No	No	0.10	0.02	0.02	2.43
104	1,511,350	754	0	0	0	0	2	2	0	0	0	No	No	No	0.26	0.00	0.00	0.00
105	2,353,920	973	0	0	0	0	12	12	0	0	0	No	No	No	1.02	0.00	0.00	0.00
150	4,581,483	2,291	0	2	2	0	2	4	0	190	190	No	No	No	0.17	0.09	0.09	8.29
153	8,670,912	3,751	0	2	1	1	2	4	1	1	2	No	No	No	0.09	0.05	0.02	0.02
183	12,047,505	6,735	0	0	0	0	8	8	0	0	0	Yes	No	No	0.13	0.00	0.00	0.00
356	1,375,342	645	0	0	0	0	1	1	0	0	0	No	No	No	0.15	0.00	0.00	0.00
360	1,473,564	871	0	0	0	0	0	0	0	0	0	No	No	No	0.00	0.00	0.00	0.00
Totals	61,980,975	30,089	0	18	13	5	46	64	666	775	1,441							

Peer Group Rate

0.21	0.06	0.04	2.50
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Column Average

0.32	0.10	0.07	4.40
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Percentile Table

D1	0.00	0.00	0.00	0.00
Q1	0.09	0.00	0.00	0.00
Q2	0.16	0.01	0.00	0.00
Q3	0.34	0.10	0.10	2.92

HYDRO POWER PLANT INFORMATION

INDUSTRY INJURY & ILLNESS TOTALS HYDRO PLANTS

Codes	Total Number of Hours	Employees	Deaths	Total Days Away, Restricted or Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Total Days OTJ Transfer or Restriction	Total Days Away	Total Days Away, Restricted or Transferred	Intl Data	Gas Data	Alt Energy	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate	Severity Rate
5	254,104	135	0	2	2	0	0	2	0	19	19	No	No	No	1.57	1.57	1.57	14.95
6	259,234	129	0	0	0	0	0	0	0	0	0	No	No	No	0.00	0.00	0.00	0.00
18	16,568,553	9,518	0	13	13	0	38	51	0	146	146	Yes	No	No	0.62	0.16	0.16	1.76
93	498,428	252	0	0	0	0	0	0	0	0	0	No	No	No	0.00	0.00	0.00	0.00
104	141,449	71	0	1	0	1	3	4	22	0	22	No	No	No	5.66	1.41	0.00	0.00
105	161,405	89	0	0	0	0	1	1	0	0	0	No	No	No	1.24	0.00	0.00	0.00
183	2,082,986	1,238	0	1	1	0	11	12	0	15	15	Yes	No	No	1.15	0.10	0.10	1.44
211	139,298	63	0	1	1	0	1	2	0	4	4	No	Yes	No	2.87	1.44	1.44	5.74
260	34,072	19	0	0	0	0	0	0	0	0	0	Yes	No	No	0.00	0.00	0.00	0.00
Totals	20,139,529	11,514	0	18	17	1	54	72	22	184	206							

Peer Group Rate

0.72	0.18	0.17	1.83
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Column Average

1.46	0.52	0.36	2.66
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Percentile Table

D1	0.00	0.00	0.00	0.00
Q1	0.00	0.00	0.00	0.00
Q2	1.15	0.10	0.00	0.00
Q3	2.01	1.42	0.58	3.09

SYSTEM HEADQUARTERS INFORMATION

INDUSTRY INJURY & ILLNESS TOTALS SYSTEM HEADQUARTERS

Codes	Type	Total Number of Hours	Employees	Deaths	Total Days Away, Restricted or Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Total Days OTJ Transfer or Restriction	Total Days Away	Total Days Away, Restricted or Transferred	Intl Data	Gas Data	Alt Energy	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate	Severity Rate
5	C	4,590,548	2,618	0	3	2	1	8	11	8	12	20	No	No	No	0.48	0.13	0.09	0.52
6	C	15,491,153	7,734	0	3	3	0	5	8	180	23	203	No	No	No	0.10	0.04	0.04	0.30
10	B	3,276,492	1,641	0	1	1	0	0	1	5	2	7	No	No	No	0.06	0.06	0.06	0.12
12	A	4,635,356	2,428	0	0	0	0	2	2	0	0	0	No	No	No	0.09	0.00	0.00	0.00
38	D	2,132,696	1,126	0	1	0	1	3	4	93	0	93	No	No	No	0.38	0.09	0.00	0.00
41	C	6,168,549	2,826	0	1	1	0	1	2	0	35	35	No	No	No	0.06	0.03	0.03	1.13
47	C	3,027,189	1,646	0	3	2	1	1	4	123	195	318	No	No	No	0.26	0.20	0.13	12.88
104	C	9,090,645	4,536	0	17	7	10	8	25	312	63	375	No	No	No	0.55	0.37	0.15	1.39
105	A	10,497,183	5,132	0	10	8	2	3	13	5	46	51	No	No	No	0.25	0.19	0.15	0.88
150	A	2,806,000	1,403	0	0	0	0	0	0	0	0	0	No	No	No	0.00	0.00	0.00	0.00
152	A	897,599	474	0	0	0	0	2	2	0	0	0	No	No	No	0.45	0.00	0.00	0.00
153	C	5,847,152	2,980	0	1	0	1	2	3	1	0	1	No	No	No	0.10	0.03	0.00	0.00
211	D	2,217,414	883	0	1	1	0	1	2	0	28	28	No	Yes	No	0.18	0.09	0.09	2.53
271	B	1,715,059	942	0	3	1	2	0	3	190	11	201	No	No	No	0.35	0.35	0.12	1.28
272	B	1,393,875	792	0	1	1	0	0	1	0	20	20	No	No	No	0.14	0.14	0.14	2.87
274	G	2,734,769	1,278	0	2	1	1	6	8	73	8	81	No	No	No	0.59	0.15	0.07	0.59
295	B	1,057,773	763	0	1	0	1	0	1	24	0	24	Yes	No	No	0.19	0.19	0.00	0.00
Totals		77,579,452	39,202	0	48	28	20	42	90	1,014	443	1,457							

Peer Group Rate

0.23	0.12	0.07	1.14
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Column Average

0.25	0.12	0.06	1.44
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Percentile Table

D1	0.06	0.00	0.00	0.00
Q1	0.10	0.03	0.00	0.00
Q2	0.19	0.09	0.06	0.52
Q3	0.40	0.19	0.12	1.32

METHOD OF ADJUSTING FOR COVID-19

IMPACT OF ADJUSTMENTS FOR COVID-19

The total number of days away, restricted or transferred (DART) and total recordable cases were adjusted using the reported number of cases of Covid-19.

The effect of adjusting for Covid-19 cases was to reduce the total number of recordable incidents in the sample by 6.4%, and the number of DART cases by 10.7%. The greatest adjustment was for Fossil Plants which saw reductions in total recordable cases of 11.4% and reductions in DART cases of 22.0%.

	Total Recordable Cases	Days Away, Restricted or Transferred
Total Company	-7.6%	-12.3%
T & D	-3.1%	-5.1%
Fossil Plants	-11.4%	-22.0%
Hydro Plants	0.0%	0.0%
Nuclear Plants	-6.3%	-22.2%
Total Sample	-6.4%	-10.7%

COVID-19 PERCENTILE TABLES

TOTAL COMPANY TRIR		
Metric	OSHA Reported	COVID-19 Adjusted
Peer Group Rate	1.19	1.10
First Decile	0.40	0.39
First Quartile	0.69	0.67
Second Quartile	1.11	1.09
Third Quartile	1.87	1.75

TOTAL COMPANY DART		
Metric	OSHA Reported	COVID-19 Adjusted
Peer Group Rate	0.73	0.64
First Decile	0.20	0.20
First Quartile	0.34	0.34
Second Quartile	0.67	0.67
Third Quartile	1.11	1.06

T & D TRIR		
Metric	OSHA Reported	COVID-19 Adjusted
Peer Group Rate	1.19	1.10
First Decile	0.40	0.39
First Quartile	0.69	0.67
Second Quartile	1.11	1.09
Third Quartile	1.87	1.75

T & D DART		
Metric	OSHA Reported	COVID-19 Adjusted
Peer Group Rate	0.85	0.80
First Decile	0.31	0.31
First Quartile	0.52	0.49
Second Quartile	0.84	0.75
Third Quartile	1.37	1.37

COVID-19 PERCENTILE TABLES - CONTINUED

FOSSIL PLANTS TRIR		
Metric	OSHA Reported	COVID-19 Adjusted
Peer Group Rate	1.11	0.99
First Decile	0.25	0.25
First Quartile	0.49	0.49
Second Quartile	1.37	1.16
Third Quartile	2.16	1.85

FOSSIL PLANTS DART		
Metric	OSHA Reported	COVID-19 Adjusted
Peer Group Rate	0.58	0.45
First Decile	0.08	0.08
First Quartile	0.10	0.10
Second Quartile	0.65	0.65
Third Quartile	1.23	1.15

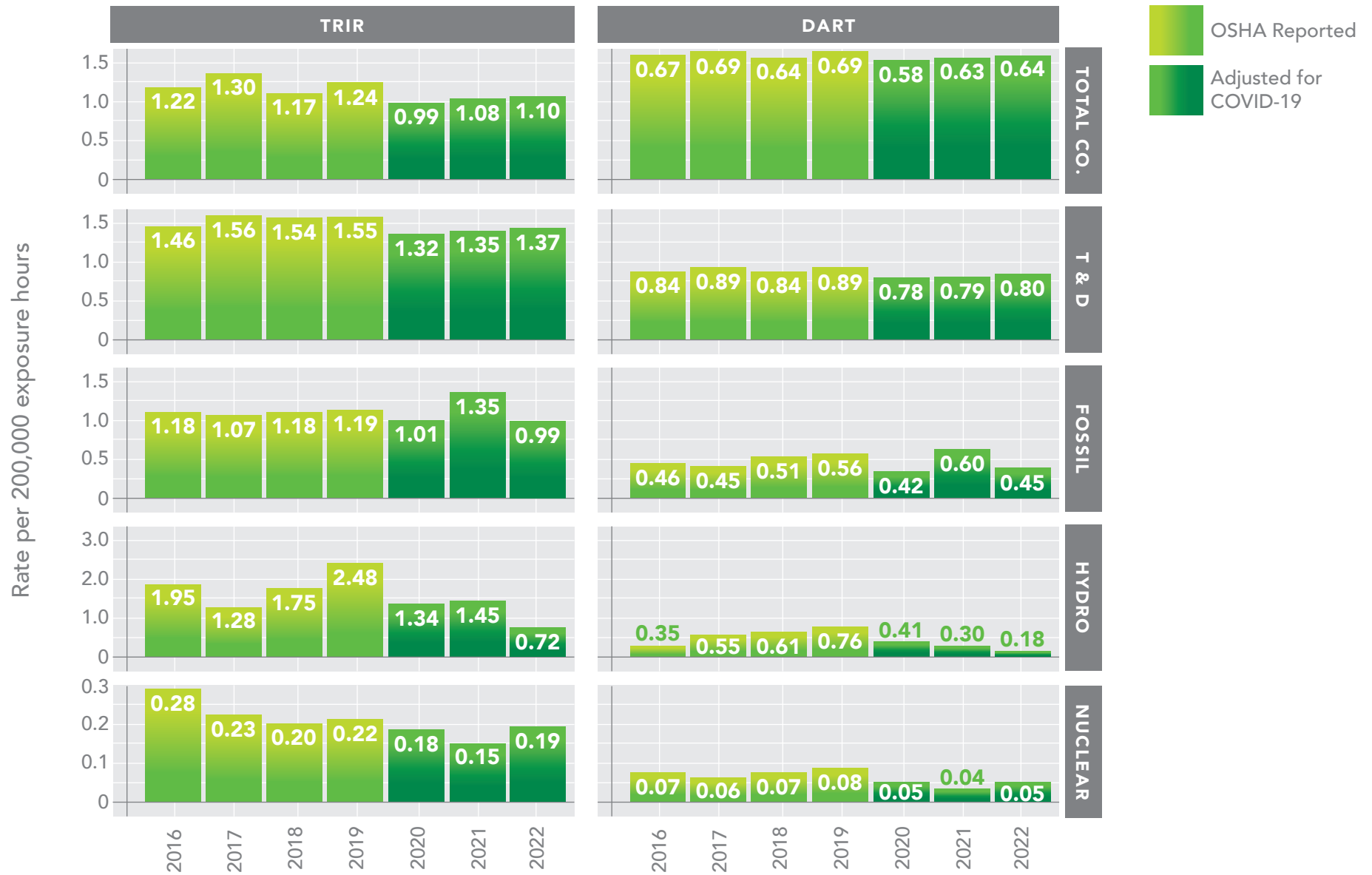
HYDRO PLANTS TRIR		
Metric	OSHA Reported	COVID-19 Adjusted
Peer Group Rate	0.72	0.72
First Decile	0.00	0.00
First Quartile	0.00	0.00
Second Quartile	1.15	1.15
Third Quartile	2.01	2.01

HYDRO PLANTS DART		
Metric	OSHA Reported	COVID-19 Adjusted
Peer Group Rate	0.18	0.18
First Decile	0.00	0.00
First Quartile	0.00	0.00
Second Quartile	0.10	0.10
Third Quartile	1.42	1.42

NUCLEAR PLANTS TRIR		
Metric	OSHA Reported	COVID-19 Adjusted
Peer Group Rate	0.21	0.19
First Decile	0.00	0.00
First Quartile	0.09	0.07
Second Quartile	0.16	0.13
Third Quartile	0.34	0.34

NUCLEAR PLANTS DART		
Metric	OSHA Reported	COVID-19 Adjusted
Peer Group Rate	0.06	0.05
First Decile	0.00	0.00
First Quartile	0.00	0.00
Second Quartile	0.01	0.00
Third Quartile	0.10	0.05

COVID-19 SURVEY TRENDS



MOTOR VEHICLE ACCIDENT INFORMATION

MOTOR VEHICLE ACCIDENT DATA 2019-2022

	2019	2020	2021	2022	2021-2022
Vehicles	135,525 (3,151)	131,505 (2,988)	118,053 (2,879)	122,477 (2,987)	4,424
Number of Miles Operated	1,498,502,259 (34,848,889)	1,888,972,971 (42,931,203)	1,322,216,423 (32,249,181)	1,245,863,322 (30,386,910)	-76,353,104
Number of Accidents	8,478 (197.00)	7,556 (171.00)	7,403 (180.00)	7,040 (171.00)	-363
Frequency Rate of Accidents	5.66	4.00	5.60	5.65	0.05
Average Miles Per Vehicle	11,057	14,364	11,200	10,172	-1,028

Numbers in parenthesis represent the per company average based upon participating companies for that year.

MOTOR VEHICLE ACCIDENT DATA ALL GROUPS

Codes	Vehicles	Number of Miles Operated	Number of Accidents	Average Miles per Vehicle	Frequency Rate of Accidents	Contains Gas Data	Alternate Standard
6	11092	144,176,830	457	12,998	3.17	TRUE	None
10	5560	57,192,970	280	10,287	4.90	FALSE	ANSI D15.1-1976
12	3140	55,266,806	162	17,601	2.93	FALSE	None
13	9339	138,594,599	759	14,840	5.48	TRUE	None
18	9923	64,054,670	272	6,455	4.25	FALSE	None
21	4071	59,843,357	309	14,700	5.16	TRUE	None
28	1148	12,050,801	51	10,497	4.23	TRUE	None
38	1095	15,336,876	58	14,006	3.78	FALSE	None
44	1975	17,940,000	137	9,084	7.64	TRUE	None
45	1272	6,299,152	87	4,952	13.81	FALSE	None
47	6825	49,567,827	408	7,263	8.23	TRUE	ANSI D16.1-2007
50	1229	8,232,159	108	6,698	13.12	FALSE	None
81	2959	34,284,840	197	11,587	5.75	TRUE	AGA
91	1166	14,708,883	82	12,615	5.57	TRUE	ANSI D15.1-1976
104	3201	33,291,642	204	10,400	6.13	TRUE	None
105	8483	97,229,849	226	11,462	2.32	FALSE	None
116	4298	47,216,185	186	10,986	3.94	TRUE	None
137	679	9,019,512	63	13,284	6.98	FALSE	None
150	1954	15,093,645	99	7,724	6.56	FALSE	None
151	751	6,722,160	48	8,951	7.14	TRUE	AGA
152	458	4,232,555	51	9,241	12.05	FALSE	None
154	3380	28,750,000	179	8,506	6.23	FALSE	None
156	1429	13,100,000	146	9,167	11.15	TRUE	None
159	1473	18,581,427	91	12,615	4.90	TRUE	AGA

Chart continued on next page.

MOTOR VEHICLE ACCIDENT DATA ALL GROUPS - CONTINUED

Codes	Vehicles	Number of Miles Operated	Number of Accidents	Average Miles per Vehicle	Frequency Rate of Accidents	Contains Gas Data	Alternate Standard
178	4927	28,870,855	560	5,860	19.40	TRUE	None
179	721	3,976,886	53	5,516	13.33	FALSE	None
182	8610	59,337,337	342	6,892	5.76	TRUE	None
204	240	1,940,000	14	8,083	7.22	TRUE	None
208	544	4,419,342	42	8,124	9.50	TRUE	None
211	1368	11,153,387	98	8,153	8.79	TRUE	None
271	986	5,326,948	95	5,403	17.83	FALSE	None
272	778	11,100,000	48	14,267	4.32	FALSE	None
274	2736	42,191,150	194	15,421	4.60	FALSE	ANSI D15.1-1976
300	1464	14,650,000	146	10,007	9.97	TRUE	None
315	6343	43,114,738	289	6,797	6.70	TRUE	None
336	1737	16,073,606	139	9,254	8.65	TRUE	Other
338	1076	10,605,091	61	9,856	5.75	TRUE	Other
352	1444	15,346,082	35	10,627	2.28	TRUE	None
353	1777	15,673,094	204	8,820	13.02	FALSE	None
355	251	2,852,634	41	11,365	14.37	FALSE	None
381	575	8,445,427	19	14,688	2.25	FALSE	None
Totals	122,477	1,245,863,322	7,040				

Peer Avg Group Average				10,172	5.65
	2,987	30,386,910	172	10,123	7.54

D1	3.04
Q1	4.51
Q2	6.23
Q3	9.66

**MOTOR VEHICLE PREVENTABLE DATA
2019-2022**

	2019	2020	2021	2022	2021-2022
Vehicles	118,541 (2,756)	102,501 (2,628)	109,677 (2,611)	125,744 (2,794)	16,067
Number of Miles Operated	1,283,566,904 (-29,850,393)	1,776,875,454 (-45,560,909)	1,230,046,658 (29,286,825)	1,334,473,851 (29,654,974)	104,427,193
Number of Accidents	3,542 (82.00)	3,077 (78.00)	3,522 (83.00)	3,487 (77.00)	-35
Frequency Rate of Accidents	2.76	1.73	2.86	2.61	-0.25
Average Miles Per Vehicle	10,828	17,335	11,215	10,613	-603

Numbers in parenthesis represent the per company average based upon participating companies for that year.

MOTOR VEHICLE PREVENTABLE DATA ALL GROUPS

Codes	Vehicles	Number of Miles Operated	Number of Accidents	Average Miles per Vehicle	Frequency Rate of Accidents	Contains Gas Data	Alternate Standard
6	11092	144,176,830	141	12,998	0.98	FALSE	None
10	5560	57,192,970	111	10,287	1.94	FALSE	None
13	9339	138,594,599	343	14,840	2.47	TRUE	None
18	9923	64,054,670	142	6,455	2.22	FALSE	None
21	4071	59,843,357	127	14,700	2.12	TRUE	Other
28	1148	12,050,801	29	10,497	2.41	TRUE	None
38	1095	15,336,876	31	14,006	2.02	FALSE	None
44	1975	17,940,000	51	9,084	2.84	TRUE	None
45	1272	6,299,152	50	4,952	7.94	FALSE	None
47	6825	49,567,827	408	7,263	8.23	TRUE	ANSI D16.1-2007
50	1229	8,232,159	63	6,698	7.65	FALSE	None
53	936	9,256,128	26	9,889	2.81	TRUE	ANSI Z.15-2006
81	2959	34,284,840	119	11,587	3.47	TRUE	AGA
91	1166	14,708,883	49	12,615	3.33	TRUE	ANSI D15.1-1976
104	3201	33,291,642	96	10,400	2.88	TRUE	None
105	8483	97,229,849	191	11,462	1.96	FALSE	Other
110	759	6,000,000	14	7,905	2.33	FALSE	None
116	4298	47,216,185	130	10,986	2.75	TRUE	None
128	384	4,436,045	9	11,552	2.03	FALSE	None
137	679	9,019,512	39	13,284	4.32	FALSE	None
150	1954	15,093,645	41	7,724	2.72	FALSE	None
151	751	6,722,160	35	8,951	5.21	TRUE	AGA
152	458	4,232,555	21	9,241	4.96	FALSE	Other
154	3380	28,750,000	68	8,506	2.37	FALSE	None
156	1429	13,100,000	51	9,167	3.89	TRUE	None
159	1473	18,581,427	39	12,615	2.10	TRUE	AGA
178	4927	28,870,855	261	5,860	9.04	TRUE	None

Chart continued on next page.

MOTOR VEHICLE PREVENTABLE DATA ALL GROUPS - CONTINUED

Codes	Vehicles	Number of Miles Operated	Number of Accidents	Average Miles per Vehicle	Frequency Rate of Accidents	Contains Gas Data	Alternate Standard
179	721	3,976,886	20	5,516	5.03	FALSE	None
182	8610	59,337,337	114	6,892	1.92	TRUE	None
204	240	1,940,000	6	8,083	3.09	TRUE	None
208	544	4,419,342	14	8,124	3.17	TRUE	None
271	986	5,326,948	59	5,403	11.08	FALSE	None
274	2736	42,191,150	45	15,421	1.07	FALSE	ANSI D15.1-1976
295	530	2,181,879	2	4,117	0.92	TRUE	None
297	879	26,912,235	26	30,617	0.97	FALSE	None
300	1464	14,650,000	42	10,007	2.87	FALSE	None
315	6343	43,114,738	121	6,797	2.81	FALSE	None
336	1737	16,703,606	34	9,616	2.04	TRUE	Other
338	1076	10,605,091	28	9,856	2.64	TRUE	None
352	1444	15,346,082	19	10,627	1.24	TRUE	None
353	1777	15,673,094	104	8,820	6.64	FALSE	None
355	251	2,852,634	18	11,365	6.31	FALSE	None
360	1973	22,044,361	24	11,173	1.09	FALSE	None
361	3092	94,670,074	111	30,618	1.17	TRUE	None
381	575	8,445,427	15	14,688	1.78	FALSE	None
Totals	125,744	1,334,473,851	3,487				

Peer Avg Group Average				10,613	2.61
	2,794	29,654,974	77	10,695	3.40

D1	1.09
Q1	2.00
Q2	2.72
Q3	4.04

APPENDICES

SURVEY PARTICIPANTS

Company	Safety Manager/Director	Manager's Phone	Manager's Email Address
AES INDIANA	DAVID BALDWIN	(317) 417-7300	DAVID.BALDWIN@AES.COM
AES OHIO	SHAYNE MEADOWS	(937) 630-1286	SHAYNE.MEADOWS@AES.COM
ALLETE	DAVE PESSEDA	(218) 355-2548	DPESSENDA@ALLETE.COM
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AMEREN	TOM DYSON	(317) 800-6716	TDYSON@AMEREN.COM
AMERICAN ELECTRIC POWER	JIM GOODNITE	(614) 264-5974	JMGOODNITE@AEP.COM
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Chart continued on next page.

SURVEY PARTICIPANTS - CONTINUED

Company	Safety Manager/Director	Manager's Phone	Manager's Email Address
DUQUESNE LIGHT COMPANY	MIKE FORMAINI	(412) 266-0714	MFORMAINI@DUQLIGHT.COM
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ENMAX	BRUNS, DANA	(403) 612-7934	DBRUNS@ENMAX.COM
ENTERGY	JAMIE ROTTMANN	(601) 942-3008	JROTTMA@ENTERGY.COM
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HYDRO ONE	ANEELA ELAHI	(647) 302-9154	ANEELA.ELAHI@HYDROONE.COM
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ITC HOLDINGS	DUSTIN ALDRICH	(248) 330-1234	DALDRICH@ITCTRANSCO.COM
JAMAICA PUBLIC SERVICE COMPANY	ALLSON THOMPSON	(876) 878-3686	ALTHOMPSON@JPSCO.COM
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Chart continued on next page.

SURVEY PARTICIPANTS - CONTINUED

Company	Safety Manager/Director	Manager's Phone	Manager's Email Address
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PACIFIC GAS & ELECTRIC	MUKUL SHEKHAR	(925) 536-9095	MUKUL.SHEKHAR@PGE.COM
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PEPCO HOLDINGS	ANTONINA GATTUSO	(630) 470-7561	ANTONINA.GATTUSO@EXELONCORP.COM
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PORTLAND GENERAL ELECTRIC COMPANY	FORREST CARITHERS	(314) 562-0320	FORREST.CARITHERS@PGN.COM
PPL ELECTRIC UTILITIES	CHARLES WOOD	(570) 854-1263	CLWOOD@PPLWEB.COM
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SAN DIEGO GAS & ELECTRIC	JAMES TURMAN	(619) 987-1551	JTURMAN@SDGE.COM
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TAMPA ELECTRIC COMPANY	HEIDI WHIDDEN	(813) 228-1045	HMWHIDDEN@TECOENERGY.COM
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UGI UTILITIES INC.	PATRICE DONAHUE	(484) 599-0937	PDONAHUE@UGI.COM
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XCEL ENERGY	GROVER MILLS	(303) 628-2727	GROVER.PMILLS@XCELENERGY.COM

SAFETY SURVEY DEFINITIONS

All Other Illnesses (Column M6) – All other occupational illnesses. Examples: Heatstroke, sunstroke, heat exhaustion, heat stress and other effects of environmental heat; freezing, frostbite, and other effects of exposure to low temperatures; decompression sickness; effects of ionizing radiation (isotopes, x-rays, radium); effects of nonionizing radiation (welding flash, ultra-violet rays, lasers); anthrax; blood-borne pathogenic diseases, such as AIDS, HIV, hepatitis B or hepatitis C; brucellosis; malignant or benign tumors; histoplasmosis; coccidioidomycosis.

Apprentice Lineworker – An entry-level electrician who connects, tests, adjusts, repairs, constructs and maintains electrical equipment and apparatus for the transmission and distribution system. This includes both overhead and underground work. (Note: This excludes substation mechanics or substation electricians.)

Coal Generation Plants – Associated personnel that support that business and are included in their budget. Provide data for coal generation plants that have used coal for the entire year.

Column Average – Average of all “Rate” values listed in the column.

Company Type:

- *Electric*
Reporting data for an organization with Electric Generation, Transmission & Distribution.
- *Electric (with no Nuclear Plants)*
Reporting data for an organization with Electric Generation, Transmission & Distribution, but with no nuclear plants.
- *Combination (Gas/Electric)*
Reporting data for an organization with both Electric Generation, Transmission & Distribution and Gas
- *Combination (Gas/Electric with no Nuclear Plants)*
Reporting data for an organization with both Electric Generation, Transmission & Distribution and Gas with no nuclear plants.

- *Generation Only*
Reporting data for an organization with only Electric Generation.
- *Electric (T&D Only)*
Reporting data for an organization with only Transmission & Distribution
- *Nuclear Only*
Reporting data for an organization with only Nuclear Generating Plans

DART Incident Rate – (Days Away Restricted or Transferred)

Number of entries in column H (cases with days away) + Number of entries in column I (cases with job transfer or restrictions) X 200,000 ÷ Number of hours worked by all employees.

Days Away Cases (Days Away From Work Cases) – The total number of OSHA recordable cases which required days away from work for the year. This only includes days away from work. The data is taken directly from the sum of OSHA Form 300 Days Away Cases column H.

Deaths – The total number of OSHA recordable deaths. The listed totals reflect the sum of a company’s column G of the OSHA Form 300.

Employees (Number of Employees) – The average reported number of employees a company had for each category.

Fossil Fuel Plants – Fossil Fuel Plants include: coal, natural and other gas plants, and petroleum plants combined, associated personnel that support the business and are included in their budget.

Injury (Column M1) – An injury is any wound or damage to the body resulting from an event in the work environment. Examples: Cut, puncture, laceration, abrasion, fracture, bruise, contusion, chipped tooth, amputation, insect bite, electrocution, or a thermal, chemical, electrical, or radiation burn. Sprain and strain injuries to muscles, joints, and connective tissues are classified as injuries when they result from a slip, trip, fall or other similar accidents.

SAFETY SURVEY DEFINITIONS - CONTINUED

Injury Details – The injury data collection fields that correspond to the classification system established by the National Council on Compensation Insurance (NCCI).

International Data – Data that has been included from establishments not operating within the geographical jurisdiction of the United States Department of Labor.

Job Transfer or Restriction Cases – The total number of OSHA recordable cases which included days that employees were on transferred to other duties or on restricted work duty due to an injury or illness. The data is taken directly from the sum of OSHA Form 300, Job Transfer or Restriction found in column I.

Lineworker – An electrician who connects, tests, adjusts, repairs, constructs and maintains electrical equipment and apparatus for the transmission and distribution system. This includes both overhead and underground work. (Note: This excludes substation mechanics or substation electricians.)

Lost Work Cases (Days Away From Work) – The sum of Days Away From Work Cases calculated from the total of the sum of column H.

Lost Work Day Case Rate – Number of entries in column H (cases with days away) X 200,000 ÷ Number of Hours worked by all employees.

Meter Readers – Individual responsible for reading meters and energy consumption devices. Logs read information into a hand-held device. Observes and reports irregular wiring, damage or tampered meter facilities and other unusual conditions. (Note: This does not include meter readers who perform connects/disconnects.)

Mechanics – Overhauls, cleans and repairs equipment in a generating plant. Dismantles, repairs, replaces and reassembles various kinds of piping, valves, dampers, burners and other equipment. Performs structural and plate welding, cutting and burning. Heater and Condenser maintenance, cleaning and repairs. Asbestos abatement.

Motor Vehicle - Any licensed mechanically or electrically powered vehicle that is owned, leased (rental), or contracted (mileage reimbursement) and operated in the service of the reporting company. The load on a vehicle is to be considered a part of the vehicle. Any trailer or equipment in tow is considered part of the load. Not Included - vehicles operated on fixed rails, industrial forklifts, road-building machinery, golf carts or similar vehicles (ATVs, mules, gator, etc.), crawler cranes, draglines, farm equipment, bicycles, or similar equipment.

Motor Vehicle Accident - An unplanned event in which the first harmful event involves a motor vehicle in motion coming in contact with another motor vehicle, other property, person(s) or animal(s).

Damage caused solely by striking birds, or by rocks or gravel thrown by vehicles, or by getting road tar on the vehicle is not a motor vehicle fleet accident. If death, injury, or property damage results, for example, from hitting a large rock, or striking a bird and losing control of the vehicle, the occurrence is a motor vehicle accident.

Natural and Other Gas Power Stations - Associated personnel that support that business and are included in their budget. Only provide data for plants that have used gas for the entire year.

Nuclear Plants – Associated personnel that support that business, and are included in their budget

Number of Vehicle Accidents - The number of vehicle accidents during the survey year per recording criteria found in ANSI D16.1 – 2007, ANSI/ASSE Z15.1 – 2006 , or ANSI D15.1 – 1976).

Number of Miles Operated - The number of miles a vehicle was operated during the survey year per recording criteria found in ANSI D16.1 – 2007, ANSI/ASSE Z15.1 – 2006 , or ANSI D15.1 – 1976).

Other Recordable Cases (medical cases) - The total number of OSHA recordable cases that required medical attention. These incidents did not require an employee to go on restricted duty or to take a lost workday. The data is taken directly from the sum of OSHA form 300 Column J.

SAFETY SURVEY DEFINITIONS - CONTINUED

Peer Group Rate - An average rate calculated using the formula:
 $((\text{Sum of Total Cases}) / \text{Sum of Total Hours}) \times 200,000$

Poisoning (Column M4) - Poisoning includes disorders evidence by abnormal concentrations of toxic substances in blood, other tissues, other bodily fluids, or the breath that are caused by the ingestion or absorption of toxic substances into the body. Examples: Poisoning by lead, mercury, cadmium, arsenic, or other metals; poisoning by carbon monoxide, hydrogen sulfide or other gases; poisoning by benzene, benzol, carbon tetrachloride, or other organic solvents; poisoning by insecticide sprays, such as parathion or lead arsenate; poisoning by other chemicals, such as formaldehyde.

Preventable Motor Vehicle Accident - A motor vehicle accident in which the driver failed to do everything that reasonably could have been done to avoid the collision. The determination of preventability should be based on criteria similar to that found in the National Safety Council's Guide to Determine Motor Vehicle Accident Preventability.

Quartile and Percentile Calculations - Quartiles and Percentiles are calculated using formula R-8. There are a number of other ways of calculating percentiles in common use. Hyndman and Fan (1996) in an American Statistician article evaluated nine different methods (as R1 through R9) for computing percentiles. Formula R8 was recommended and is used in the survey.

Respiratory Condition (Column M3) - Respiratory conditions are illnesses associated with breathing hazardous biological agents, chemicals, dust, gases, vapors, or fumes at work. Examples: Silicosis, asbestosis, pneumonitis, pharyngitis, rhinitis or acute congestion; farmer's lung, beryllium disease, tuberculosis, occupational asthma, reactive airways dysfunction syndrome (RADS), chronic obstructive pulmonary disease (COPD), hypersensitivity pneumonitis, toxic inhalation injury, such as metal fume fever, chronic obstructive bronchitis, and other pneumoconioses.

Severity Bases Leading Indicator (SBLI) - A more predictive and valid severity metric based on the weighting of select OSHA reported cases.

SBLI Hours: The total number of hours worked that you would use to compute TRIR.

SBLI First Aid Cases: Total Number of First Cases as defined by OSHA.

SBLI Lost Time Cases: Total Number of DART Cases as defined by OSHA.

SBLI Medical Treatment Cases: Total Number of OSHA Other Recordable Cases. Cases that are not a Fatality, DART, or First Aid Case.

SBLI Total Cases: Lost Time Cases + Medical Cases: Includes OSHA DART Cases and Other OSHA Recordable Cases. Excludes Fatality and First Aid Cases.

SBLI Rate: $(\text{SBLI First Aid Cases} \times 100) + (\text{SBLI Medical Treatment Cases} \times 500) + (\text{SBLI Lost Time Cases} \times 750) / (\text{SBLI Hours} \times 200)$

Severity Rate (Lost Days Severity Rate) - Number of entries in column K (total days away) X 200,000 ÷ Number of hours worked by all employees.

SIF (Serious Injury or Fatality) - A serious injury or fatality as defined by the SIF Reporting Criteria.

SIIR - The Serious Injury Incidence Rate (SIIR) is calculated using the formula (# cases x 200,000/hours worked). The calculation of the SIIR uses the same hours worked number as your calculation of the Recordable Incidence Rate.

Skin Disorder (Column M2) - Skin diseases or disorders are illnesses involving the worker's skin that are caused by work exposure to chemicals, plants, or other substances.. Examples: Contact dermatitis, eczema, or rash caused by primary irritants and sensitizers or poisonous plants; oil acne; friction blisters, chrome ulcers; inflammation of the skin.

Substation Electrician - Substation electricians maintain and monitor the equipment at electrical substations.

SAFETY SURVEY DEFINITIONS - CONTINUED

System / Headquarters - Associated personnel that support that business and are included in their budget. Examples: Central Services - Business Services, Information Technology, Finance - Accounts Payable/Accounts Receivable, Human Resources, Regulation, Community Affairs, Shareholder Relations, Communications, Strategy, Legal Department, Risk Management, Facilities.

Total Cases (Total Number of Cases) - Represents the sum of Fatality Cases, Lost Work Day Cases, Transferred or Restricted Cases, and Other Recordable Cases. Calculated from the sum of the totals contained on OSHA Form 300, columns G, H, I, and J.

Total Days Away (Days Away From Work) - The total number of OSHA recordable days that employees were away from work. This does not apply to restricted days. The data is taken directly from the sum of OSHA Form 300 column K.

Total Days OTJ Transfer or Restriction (On Job Transfer or Restriction) - The total number of OSHA recordable days that employees were on transferred to other duties or on restricted work duty due to an injury or illness. The data is taken directly from the sum of OSHA Form 300 column L.

Total Days Transfer, Restricted and Away (Total of On job Transfer or Restriction and Away From Work) - The total of all days in which employees were away from work, on restricted duty or transferred to other duties. The data was taken from the sum of OSHA Form 300 columns K and L.

Total Number of Hours (Hours of Exposure) - Participants were allowed to enter their actual hours of exposure from their own payroll records. However, some participants were unable to enter their actual exposure hours and were instructed to estimate the number of hours of exposure for all their employees, including salaried employees, for 12 months using the following formula [(Average number of employees) x 167 hours] x 12 months.

Total Recordable Incident Rate - Number of entries in column G (Deaths) + Number of entries in column H (cases with days away from work) + Number of entries in column I (cases with job transfer or restrictions) + Number of entries in column J (other recordable cases) X 200,000 ÷ Number of hours worked by all employees.

Total Transfer, Restricted and Days Away Cases (Days Away from Work plus Remained at Work – job transfer or restriction) - The total number of OSHA recordable cases which required days away from work and/or restricted duty. The data is taken directly from the sum of OSHA Form 300 columns H and I.

T&D (Transmission and Distribution) - associated personnel that support that business and are included in their budget. Examples: Asset Management and Customer Service - Meter Readers, Fleet, Substation, Line Crews, Engineering and ancillary personnel included in their budget.

Transmission - Electric-power transmission is the bulk transfer of electrical energy, from generating power plants to electrical substations located near demand centers.

Distribution - Electricity distribution is the final stage in the delivery of electricity to end users. A distribution system's network carries electricity from the transmission system and delivers it to consumers. Typically, the network would include medium-voltage (2kV to 34.5kV)[1] power lines, substations and pole-mounted transformers, low-voltage (less than 1 kV) distribution wiring and sometimes meters.

Troubleshooter – An electrician who is assigned full-time to respond to outages on the electrical system such as line down, customer lights out or part lights out. Can assist other trouble crews, but this is a single person. Investigates these service interruptions and makes permanent or temporary repairs.

Vehicles - The number of vehicles operated at a company during the survey year.

GROUP SIZE & COMPANY TYPE

Group Size:

- Group 1 – More Than 7,000 Employees
- Group 2 – 4,000 To 6,999 Employees
- Group 3 – 2,000 To 3,999 Employees
- Group 4 – 1,000 To 1,999 Employees
- Group 5 – Less Than 1,000 Employees

Company Type:

- A = Electric
- B = Electric (w/ no Nuclear Plants)
- C = Combination (Gas/Electric)
- D = Combination (Gas/Electric - w/ no Nuclear Plants)
- E = Generation Only
- G = Electric (T and D only)
- H = Nuclear

OCCUPATIONAL SAFETY & HEALTH COMMITTEE SERIOUS INJURY & FATALITY CRITERIA (SIF)

Serious Injuries and Fatalities (SIFs)

What is a SIF?

SIF was developed to be a metric that better defines serious injuries and fatalities. They include work related fatalities, life threatening and life altering injuries.

Defining Work Related

If the injury is OSHA recordable, it should be considered work-related.

Identifying and Classifying Serious Injuries

When the work-related criteria have been met, compare the employee injury to the Serious Injury criteria listed below to determine if the injury is deemed "Serious." (Each case should be counted only once. In cases with multiple injuries, assign the case to the category representing the most severe injury.)

1. Fatalities

2. Amputations (involving bone)

3. Concussions and/or cerebral hemorrhages

- a. Include all cerebral hemorrhages and only severe concussions resulting in a loss of consciousness and/or symptoms lasting more than 24 hours.

4. Injury or trauma to internal organs.

Frequently Asked Questions

i. When should a case of organ damage be classified as serious, such as an exposure to a chemical substance?

Injuries should be classified as serious if objective medical evidence indicates significant or sustained (beyond initial event, acute treatment and testing) organ damage, or progressive changes in organ function or anatomy. This criterion does not include rapidly dissipating signs and symptoms from the acute event (such as irritation or localized redness)

and their associated treatment, or injury from long term or repetitive exposures.

Only cases that involve relatively short-term events should be included in the serious metric, even if the result is an illness (example, reactive upper-dysfunction syndrome resulting from chlorine exposure event). Illnesses that develop from exposure over long periods of time (years) are not to be captured in this metric (example, fibrosis of the lung from asbestos exposure).

ii. Is a hernia considered a serious case?

A hernia by itself would not be classified as a severe case. However, if the hernia causes damage to an internal organ such as a strangulated colon, it would be classified as a severe case.

5. Bone fractures with the following considerations:

- a. Include fractures of the fingers and toes only if they are open, compound, or comminuted (crushed)
- b. Include all bone fractures of the face, skull, or navicular wrist bone
- c. Exclude any hairline fractures unless described above

Frequently Asked Questions

i. Are all hairline fractures excluded?

Hairline fractures in the face, skull, or navicular wrist bone are considered a serious injury. All other hairline fractures are excluded.

ii. Are nasal fractures included as a serious injury under the bone fracture criteria?

Typical nasal cartilage-only fractures are not likely to cause life altering or life-threatening injuries, unless other facial bone fractures are involved. If the employee has a "broken nose" that involves facial bone fractures, the injury should be included as a serious injury. Nasal cartilage-only fractures should not be included as a serious injury.

iii. Are broken teeth considered a serious case?

No, unless there were other injuries in addition that meet the criteria (Example: broken jaw)

6. Complete tendon, ligament and cartilage tears of the major joints (e.g., shoulder, elbow, wrist, hip, knee, and ankle).

Frequently Asked Question

i. Are partial tendon, ligament and cartilage tears included as serious injuries?
No. Partial tears are not to be classified as a serious injury.

7. Herniated disks (neck or back)

8. Lacerations resulting in severed tendons and/or a deep wound requiring internal stitches

- a. Do not include deep wounds requiring internal stitches to the fingers and toes.

Frequently Asked Question

i. Does a puncture that requires internal sutures meet the laceration criteria?
Yes

9. 2nd (10% body surface) or 3rd degree burns

10. Eye injuries resulting in eye damage or loss of vision

Frequently Asked Questions

- i. Does a corneal abrasion constitute eye damage injury?*
No. Corneal abrasions and/or scratches due to foreign bodies are considered minor and usually heal quickly.
- ii. What are some examples of “eye damage” that meet the criteria?*
Examples of eye damage would be cases where the eyeball is penetrated or damaged by a significant foreign body.
- iii. Does loss of vision mean total loss or is some degradation of vision all that is required to meet the serious injury criteria?*
Loss of vision means any permanent change in the employee’s vision or change that requires corrective lenses.

11. Injections of foreign materials (e.g., hydraulic fluid)

12. Severe heat exhaustion and all heat stroke cases (Severe heat exhaustion cases are those where all of the following symptoms are present: profuse sweating, nausea, and confusion). If confirmed fainting occurs due to the heat exposure, this is an automatic severe case.

- a. Exclude cases where confirmed personal medical conditions or medications significantly contributed to heat exhaustion

Frequently Asked Question

i. If an employee receives an IV for heat exhaustion, does this make it a severe case?
The application of an IV does not necessarily indicate a severe case; further investigation should be conducted to determine if the criteria for severe heat exhaustion were met (profuse sweating, nausea, and confusion or confirmed fainting).

13. Dislocation of a major joint (shoulder, elbow, wrist, hip, knee, and ankle).

- a. Count only cases that required the manipulation or repositioning of the joint back into place under the direction of a treating doctor.

14. The “Other Injuries” category should only be selected for reporting injuries not identified in the existing categories. A description box is also provided to briefly describe the nature of the injury.

Other Terms and Definitions

1. Serious Injury Incidence Rate (SIIR)

The SIIR is calculated using the formula (# cases x 200,000/hours worked). The calculation of the SIIR uses the same hours worked number as your calculation of the Recordable Incidence Rate.

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DETAILED SURVEY DATA

Where can I access the detailed data from the survey?

EEl Safety Survey Account

Detailed survey data can be accessed from the results tab on the participants survey account. Log into the survey account and download the detailed data.

EEl Online Report Generator

Detailed data from this year's survey and past surveys can be accessed through the EEl Online Report Generator. This is the repository of the most accurate survey data. The web address to the application is <https://esafetynline.net/eeionlinereports/>

What detailed survey data is available?

Data is currently collected in five (5) generation categories, three (3) T&D categories, six (6) job classifications, total company, system services, motor vehicle accidents and preventable motor vehicle accidents. The survey data is also filtered by company type and size.

Serious Injury & Fatality Data

Reporting Areas: Reporting area include total company, nuclear generation, hydro generation, fossil generation, coal generation, gas plant generation, transmission and distribution, transmission, distribution, lineworker, apprentice lineworker, meter readers, troubleshooter, substation electrician, mechanics, and system headquarters.

Available Data: Individual records of participating organizations that include thirteen SIF classifications and total incidents. The serious injury incident rate is calculated for each participant and the totals, average, and percentile tables are provided for each reporting area.

OSHA Reporting Data

Reporting Areas: Reporting area include total company, nuclear generation, hydro generation, fossil generation, coal generation, gas plant generation, transmission and distribution, transmission, distribution, lineworker, apprentice lineworker, meter readers, troubleshooter, substation electrician, mechanics, and system headquarters.

Available Data: Individual records of participating organizations calculating rates that include total recordable incident rate, dart rate, lost work day case rate, and lost day severity rate. Totals, average, and percentile tables are provided for each reporting area and group.

Motor Vehicle Data

Reporting Areas: The EEl Safety Survey collects data for total motor vehicle accidents and preventable motor vehicle accidents. Data is also grouped by miles operated.

Available Data: Individual records of participating organizations that include number of vehicles, number of miles operated, and number of accidents. Average miles per vehicle and accident frequency is calculated for each record. Totals, average, and percentile tables are provided for total records and groups.



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2022 OCCUPATIONAL SAFETY & HEALTH SURVEY