Fatal and non-fatal accidents in electric utility service in Japan in 1999-2022

electric utility service industry Code No.011601

Type of accidents in electric utility service in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height	13	9	10	11	13	9	15	9	16	10	10	8	9	17	10	11	18	8	11	12	9	10	15	15	278
falling to same level	6	7	24	10	11	16	5	11	14	7	14	8	14	3	11	9	6	7	11	16	14	7	20	16	267
crash	4	1	4	4	4	3	3	2	2	2	1	4	2		3	3	7	2	2	1	1	5	1	3	64
struck by flying or falling object	1		4	1		1	2	1	4	1	1	2		1	1		2	1		4	1	1		3	32
collapse		1	2			2		2		1			1		2				1			1	1		14
crashed by	4	1	1	2	3	1	3		1	1		3	3		1	4	1	1	2		1	1		1	35
caught in/between	2	3	7	2	1	1	3	3	3	3	4		5	4	2	2	1	3	3	4	5	2	1	5	69
cut		1	2	1	1	2	2	1		2	1	1	1		2	2	2		1			1	1	3	27
injury to the sole of the foot																			1			1			2
drown								1					1		1										3
contact to high/low-	3	2	4	2	4	2		2	2	2	1	4	3	1	2	1	1	2	1	2	1	5	1	4	52

temperature																									
contact to harmful substance												2		2								1	1	1	7
electric shock	2	2	2	2	2	1	5	1	1	1		1	1	6	1			1	1	3		2	1	1	37
explosion					5								3												8
burst																						1			1
fire						1	1										1								3
traffic accident (public road)	14	12	9	13	22	14	11	5	15	4	3	4	4	7	5	5	2	4	8	9	5	2	2		179
traffic accident (others)																				1				1	2
reaction to motion/improper motion	3	3	8	3	2	4	10	11	5	11	3	3	4	5	3	3	4	7	5	4	7	3	11	3	125
others		2		3		2	2	4	7	1		3	2	2	1	1		4	3	4		25	71		137
unclassifiable	1	1	2		1		1																		6
total	53	45	79	54	69	59	63	53	70	46	38	43	53	48	45	41	45	40	50	60	44	68	126	56	1,348

Causal agents (large) of fatal and non-fatal accidents in electric utility service in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	2		4	1	2	1	4	2	2	1	4		2	6		2	4	3	3		1	1	2	5	52

crane, conveying machine	17	13	14	15	23	15	12	7	18	10	8	7	12	11	8	6	3	7	11	15	8	8	6	4	258
other equipment	10	9	12	7	18	8	15	10	10	10	4	9	8	11	10	5	9	2	12	13	5	9	9	8	223
temporary buildings, establishments	12	14	24	16	22	19	16	19	21	14	16	17	13	14	12	17	18	13	13	16	15	15	18	23	397
substance, material		1	2	3		3	3		4	2		2	4	1	1		1	1		1		3	2	1	35
load			1			2	2	2	2	1		1		1	2		1	1		1	1		1	1	20
environment	6	5	10	7	2	7	5	6	3	3	3	3	11	1	9	8	7	6	4	10	11	7	9	12	155
others	6	3	12	5	2	4	6	7	10	5	3	4	3	3	3	3	2	7	7	4	3	25	79	2	208
total	53	45	79	54	69	59	63	53	70	46	38	43	53	48	45	41	45	40	50	60	44	68	126	56	1,348

Causal agents (middle) of fatal and non-fatal accidents in electric utility service in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine					1		1		1		1			2											6
power transmission mechanism			1	1												1		1							4
woodworking machine			1								1					1			1				1	1	6

construction machine	2		1			1	3	1	1	1	1		1	3			3		2		1	1	1	3	26
metal manufacturing machine					1																				1
general machine			1					1			1		1	1			1	1						1	8
mobile silviculture machine																		1							1
crane									1				1	1								2			5
conveying machine	3	1	5	1	1	2	2		1	5	4	1	4	4	2		1	2	3	5	2	2	2	2	55
vehicle	14	12	9	14	22	13	10	7	16	5	4	6	7	6	6	6	2	5	8	10	6	4	4	2	198
pressure vessel	1		1								1	1			1				1	1					7
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment	4	4	6	3	7	1	6	3	3	3	1	5	3	5	2		1	1	1	4	1	5	2	2	73
human power machine, tools	2	1		1	1	2	3	3		2	1			2	3	3	2		2	1	1	1	1	2	34
tools	3	1	5	3	5	5	5	3	5	3	1	3	3	2	2	1	5	1	7	7	3	3	6	3	85
other equipments,																									

facilities		3			5		1	1	2	2			2	2	2	1	1		1					1	24
temporary buildings, establishments	12	14	24	16	22	19	16	19	21	14	16	17	13	14	12	17	18	13	13	16	15	15	18	23	397
hazards, harmful substances				1		2			1			2	3									1		1	11
materials		1	2	2		1	3		3	2			1	1	1		1	1		1		2	2		24
load			1			2	2	2	2	1		1		1	2		1	1		1	1		1	1	20
natural environment	6	5	10	7	2	7	5	6	3	3	3	3	11	1	9	8	7	6	4	10	11	7	9	12	155
other causal agent	4	2	3	1	1	1	4	1	6	1		1		1	1			2	2	2	1	25	71	1	131
no causal agent	2	1	8	3		3	2	6	3	4	3	3	3	2	2	3	2	4	5	2	2		7	1	71
unclassifiable			1	1	1				1									1					1		6
total	53	45	79	54	69	59	63	53	70	46	38	43	53	48	45	41	45	40	50	60	44	68	126	56	1,348

Causal agents (small) of fatal and non-fatal accidents in electric utility service in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine					1		1		1		1			2											6
power transmission mechanism			1													1		1							3

circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw			1								1					1			1				1	1	6
other woodworking machines																									
leveling, transporting or loading machine																							1		1
excavating machine							1																		1
foundation work machine																									
hardening machine																									

demolition machine																								1	1
vehicle for high lift work							2	1	1		1		1	3			3		2		1	1		2	18
other construction machines			1							1															2
lathe																									
drill press, milling machine																									
grinding machine, buffing machine					1																				1
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder											1														1
roll machine (except printingroll machine)																								1	1

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines			1					1					1	1			1	1							6
felling machine																		1							1
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane									1				1	1								2			5
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck			4		1		2			3	2		2	3	1			1	1	1	1	1	1	1	25
forklift												1													1
railway equipment																									
conveyor			1						1	2	2		2	1	1		1	1	2	2	1		1	1	19
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																				2		1			3
cars, bus, motorcycle			9		22		10	6	15	5	3	6	7	6	6	5	2	4	8	10	5	2	3	2	136
railway vehicle																									
other vehicles								1	1		1					1		1			1	2	1		9
boiler			1									1			1				1						4

pressure vessel																									
other pressure vessels											1									1					2
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission			2		1		2	1	1					3	2			1	1	3	1	4	1	2	25
electric power facilities			4		6		4	1	2	2	1	5	3	2			1					1	1		33
other electrical equipment								1		1										1					3
human power cranes							1																		1
human power hauling equipment					1		2	1			1				2	2	1				1		1		12

human power machine														1											1
hand tool								2		2				1	1	1	1		2	1		1		2	14
ladder			5		4		5	2	3	1	1	3		2	2	1	5	1	6	6	1	2	5	1	56
slinging tool					1					1														1	3
other tools								1	2	1			3						1	1	2	1	1	1	14
other equipment, facilities					5		1	1	2	2			2	2	2	1	1		1					1	21
scaffolding			1					2	1			1			1								1		7
timbering																									
stairs, landing stage			6		6		4	5	8	3	2	5	2	4	3	6	5	5	3	2	2	4	4	6	85
opening							1		1					1	1										4
roof, beam, haze, crossbeam, principal rafter					3									1				1		1	1			2	9
working platform, boot board			4		1		2	1	1	1			2				1		3	2				1	19
passage			5		6		3	5	9	4	12	4	3	4	4	7	4	6	5	7	7	3	11	8	117
building, establishment			6		4		3	3	1	3	1	4	5	4	3	2	6	1	2	2	2	6	2	2	62
other temporary buildings,			2		2		3	3		3	1	3	1			2	2			2	3	2		4	33

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas									1				3												4
harmful substance												2										1			3
radiation																									
other hazards, harmful substances																								1	1
metal material			1						2	1			1	1								2			8
lumber, bamboo			1				1										1						1		4
stone, sand, substance									1	1															2
other materials							2								1			1		1			1		6
load							2	2	1	1		1			2		1	1		1	1			1	14
machine/equipment as load			1						1					1									1		4
natural ground, rock			3		1		2	3		2	1		1		3	2	1	2	2		4	3	2		32
standing tree			2		1				1		1		1		3	3	2			5		1		3	23
water								1					3		1										5
abnormal																									

environment																							1		1
high/cold temperature environment												1	1		1	1	1	2	1	1	1	3	1	4	18
other environments			5				3	2	2	1	1	2	5	1	1	2	3	2	1	4	6		5	5	51
other causal agent			3		1		4	1	6	1		1		1	1			2	2	2	1	25	71	1	123
no causal agent			8				2	6	3	4	3	3	3	2	2	3	2	4	5	2	2		7	1	62
unclassifiable			1		1				1									1					1		5
total	53	45	79	54	69	59	63	53	70	46	38	43	53	48	45	41	45	40	50	60	44	68	126	56	1,348

Workers age of fatal and non-fatal accidents in electric utility service in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	3	1	1	1	1	1						1	3				1		1			2	1		17
20-29	16	14	28	13	21	14	20	8	16	9	6	8	13	8	8	11	6	7	9	14	10	7	17	18	301
30-39	8	5	19	14	17	20	9	17	19	14	8	12	7	8	9	6	6	2	9	9	5	10	17	5	255
40-49	8	11	14	10	13	13	15	13	14	10	8	13	7	15	14	12	18	15	14	13	8	16	33	10	317
50-59	16	13	14	15	17	10	17	12	19	9	11	8	21	13	11	9	9	14	14	17	15	26	42	17	369
60 years old or more	2	1	3	1		1	2	3	2	4	5	1	2	4	3	3	5	2	3	7	6	7	16	6	89
total	53	45	79	54	69	59	63	53	70	46	38	43	53	48	45	41	45	40	50	60	44	68	126	56	1,348

Workers' number of workplace of fatal and non-fatal accidents in electric utility service in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less	3	3	7	2	4	1	7	2	3	3	2	1	3	3	2		6	6	2	7	6	5	6	4	88
10-29	6	5	7	9	4	6	4	3	6	7	4	4	6	4	4	5	5	6	7	11	8	7	8	14	150
30-49	4	4	5	3	9	4	7	6	7	5	8	4	6	3	5	2	8	2	5	8	2	9	8	7	131
50-99	10	10	15	13	12	17	11	9	16	9	7	7	7	6	8	9	9	10	15	13	11	35	38	13	310
100-299	26	19	38	23	24	22	20	22	26	18	15	20	15	25	21	17	15	9	18	19	15	8	56	11	502
300 workers or more	4	4	7	4	16	9	14	11	12	4	2	7	16	7	5	8	2	7	3	2	2	4	10	7	167
total	53	45	79	54	69	59	63	53	70	46	38	43	53	48	45	41	45	40	50	60	44	68	126	56	1,348

Month of fatal and non-fatal accidents in electric utility service in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	5	3	8	3	7	4	12	3	2	2	5	9	3	3	8	2	6	3	5	8	6	3	4	4	118
February	4	5	9	3	5	2	2	4	8	7	1	5	3	7	6	2	6	4	2	3	6	1	5	6	106
March	7	4	6	5	4	5	5	9	4	4	4	2	9	2	2	5	1	2	6	5	2	2	9	4	108
April	3	1	5	1	5	8	8	2	8	4	3	1	6	3	2	1	1	6	4	3	3	4	11	3	96
May	3	3	3	6	5	5	4	5	6	4		2	6		7	2	3	1	4	8	3	3	7	3	93
June	8	5	5	3	5	3	4	4	4	3	6	4	6	10	1	3	2	4	6	6	3	8	12	6	121

July	4	6	5	5	9	5	3	1	4	4	3	1	4	5	2	4	4		3	6	5	5	8	3	99
August	5	6	6	5	7	5	8	6	5	4	3	1	3	1	2	4	6	6	2	3	4	5	38	6	141
September	3	1	6	7	7	5	5	5	6	5	3	6	6	5	2	1	6	1	4	1	2	2	15	8	112
October	5	4	11	6	4	6	4	6	7	2	3	2	2	3	3	7	8	2	7	8	4	4	5	9	122
November	2	3	7	6	4	6	1	4	11	4	4	3	3	9	6	2	1	8	2	5	2	3	7	1	104
December	4	4	8	4	7	5	7	4	5	3	3	7	2		4	8	1	3	5	4	4	28	5	3	128
total	53	45	79	54	69	59	63	53	70	46	38	43	53	48	45	41	45	40	50	60	44	68	126	56	1,348

Prefecture of fatal and non-fatal accidents in electric utility service in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	2	2	1		5		3	2	4	4	6	3	3	2	1	2	4	1	4	4	2	3	4	4	66
Aomori	1						1	1	3					1	2	1	1			1	2	1	3		18
Iwate			2									1		1					1	1			1	1	8
Miyagi							1	3	3					3		2	3	1	1		1	1	5		24
Akita			2				2		1	1		1				1	1	2	2	1			1	4	19
Yamagata		2	1					1					1		1		1		1	1		2			11
Fukushima		1	6		4		3	4	3	3		1	7	4	3	4	5	4	3		3	2	9	3	72
Ibaraki	1	2	1		1				2	1	1		1	1	1	1			1	2	1			1	18
Tochigi			1		2		1			1	1		1		1	1					1			2	12
Gunma		1	1				1	1	2	1	2	1	3		2		1	1		1				2	20

Saitama	3	2	1				1	1	1	1	1		2		1	1						1	1		17
Chiba			2		6		4	3	4		1		1			1	2	1	3	2	1	1		1	33
Tokyo	2	2	8		2		1	2	1	1	1	3		3		1		2	2	2		3		3	39
Kanagawa	1	3	5		3			2	1	4	1	2	3	1	2		2	1	3	2	1	1	3	2	43
Niigata		1	2		3			1	3	2	1	2	2		1				1	1	3	2	5	4	34
Toyama	2	3	5		1		2	2		2		3		1	2	4		2		1	1	2	3		36
Ishikawa	3	1	1					1	2		1									2	1	1	1	1	15
Fukui			3		1		2				2		3	1		4		3		3	1				23
Yamanashi					2		1	1	1										1						6
Nagano			1					3	5		1		1	5	1	2	1		2	3	1	2	2	3	33
Gifu	1				2		1			2		1		2	2	1		1	1	2	3	1	1	2	23
Shizuoka	3	4	2		2			1	2	2	2	1	1	2	1	1	2	3	3	2	1	2	3	1	41
Aichi	7	2	5		3		3	5	4	2	2	4	4	5	5	6	4	2	2	4		1	2	3	75
Mie					7		1	1		1		3	1	2	1	1	3	2	2	1	1	1		1	29
Shiga								1				1			1						2				5
Kyoto	3	1			2		2	1	1				2		1		1				1	1	3	1	20
Osaka	4	2	1		4		2	2	6	2	3	1	1	3	2		1	1	6	5	2	1	40		89
Hyogo	5	1	3		3		5		4	2	1		1		2	1	1		2	2	3	1	13		50
Nara	1		2				1	1			2		1	1		2		1		2		1	1		16
Wakayama					2		1		1	1	1		1	2	2	1		1			1		1		15
Tottori		1	1						1				1			1	1						1		7

Shimane			1					1				1					1	1							5
Okayama					1				4	1									1				1		8
Hiroshima	1	1	1		2		4	3	3		1	3	2	4					2	3	1	26	2	1	60
Yamaguchi		1			1			2		2		2	3								1	1	2	1	16
Tokushima		1										1					1	2				1			6
Kagawa			1				1	1				1	1	1	3				1					1	11
Ehime	1		1				1			2	1	1		1	1		1						1	1	12
Kochi		1	1		1		2		1					1			1	2		1				2	13
Fukuoka	3	2	4		6		6	1	1	4	3		1		2		2	1	1	2	4	2	4	3	52
Saga	1	1					1				1	1	1		2		1		1						10
Nagasaki		2	2		1		1	1	1		1				1				1	1	2	1	1		16
Kumamoto	4		1				1			1			2	1		1		1		1		2	5	1	21
Oita		1	2		1		1	1				1	1			1	2			3	1	1	1	2	19
Miyazaki	2	1	3				4			1					1		2	3		2	1	2	3	1	26
Kagoshima		2	3				1	2	3	1	1	4							2	1	1	1	3	2	27
Okinawa	2	1	2		1		1	1	2	1			1					1		1				2	16
total	53	45	79	54	69	59	63	53	70	46	38	43	53	48	45	41	45	40	50	60	44	68	126	56	1,348

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

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Fatal accidents in electric utility service in Japan in 1999-2022

electric utility service industry Code No.011601

Type of fatal accidents in electric utility service in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height									1			1	1									1	1		5
falling to same level																									
crash								1																	1
struck by flying or falling object								1							1										2
collapse		1																				1			2
crashed by																									
caught in/between																									
cut																									
injury to the sole of the foot																									

drown								1					3												4
contact to high/low-temperature																	1								1
contact to harmful substance																									
electric shock						1																			1
explosion																									
burst																									
fire																									
traffic accident (public road)	1	1																							2
traffic accident (others)																									
reaction to motion/improper motion															1										1
others												1	1												2
unclassifiable																		1							1
total	1	2				1		3	1			2	5		2		1	1				2	1		22

Causal agents (large) of fatal accidents in electric utility service in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine																									
crane, conveying machine	1	1						1																	3
other equipment						1						1	1		1										4
temporary buildings, establishments									1													1			2
substance, material																									
load								1																	1
environment		1						1					3		1		1					1			8
others												1	1					1					1		4
total	1	2				1		3	1			2	5		2		1	1				2	1		22

Causal agents (middle) of fatal accidents in electric utility service in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									

woodworking machine																									
construction machine																									
metal manufacturing machine																									
general machine																									
mobile silviculture machine																									
crane																									
conveying machine																									
vehicle	1	1						1																	3
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment						1							1		1										3
human power machine, tools																									
tools												1													1
other equipments,																									

facilities																									
temporary buildings, establishments									1													1			2
hazards, harmful substances																									
materials																									
load								1																	1
natural environment		1						1					3		1		1					1			8
other causal agent																									
no causal agent												1	1					1							3
unclassifiable																							1		1
total	1	2				1		3	1			2	5		2		1	1				2	1		22

Causal agents (small) of fatal accidents in electric utility service in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									

circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																									
drill press, milling machine																									
grinding machine, buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder																									
roll machine (except printingroll machine)																									

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines																									
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck																									
forklift																									
railway equipment																									
conveyor																									
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle	1	1						1																	3
railway vehicle																									
other vehicles																									
boiler																									

pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission						1							1		1										3
electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																									

human power machine																									
hand tool																									
ladder												1													1
slinging tool																									
other tools																									
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage																									
opening																									
roof, beam, haze, crossbeam, principal rafter																									
working platform, boot board																									
passage																						1			1
building, establishment									1																1
other temporary buildings,																									

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance																									
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									
other materials																									
load								1																	1
machine/equipment as load																									
natural ground, rock																									
standing tree															1							1			2
water								1					3												4
abnormal																									

environment																									
high/cold temperature environment																	1								1
other environments		1																							1
other causal agent																									
no causal agent												1	1					1							3
unclassifiable																							1		1
total	1	2				1		3	1			2	5		2		1	1				2	1		22

Workers age of fatal accidents in electric utility service in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less																									
20-29		2				1							2		1										6
30-39								1																	1
40-49	1														1			1							3
50-59								2	1			2	3				1					2	1		12
60 years old or more																									
total	1	2				1		3	1			2	5		2		1	1				2	1		22

Workers' number of workplace of fatal accidents in electric utility service in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less		1													1										2
10-29												1													1
30-49								1	1								1								3
50-99		1																				1	1		3
100-299	1					1		1					3		1							1			8
300 workers or more								1				1	2					1							5
total	1	2				1		3	1			2	5		2		1	1				2	1		22

Month of fatal accidents in electric utility service in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January															1							1			2
February								1					1		1										3
March													3												3
April												1						1							2
May																							1		1
June																									

July	1																					1			2
August									1								1								2
September								2																	2
October		1				1																			2
November																									
December		1										1	1												3
total	1	2				1		3	1			2	5		2		1	1				2	1		22

Prefecture of fatal accidents in electric utility service in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido																									
Aomori																									
Iwate																									
Miyagi																									
Akita																									
Yamagata		1																							1
Fukushima													3												3
Ibaraki																									
Tochigi																									
Gunma									1																1

Saitama																									
Chiba																									
Tokyo																									
Kanagawa	1																								1
Niigata															1										1
Toyama																							1		1
Ishikawa																									
Fukui													1					1							2
Yamanashi																									
Nagano																									
Gifu																									
Shizuoka																						1			1
Aichi								3																	3
Mie																									
Shiga																									
Kyoto																									
Osaka																									
Hyogo																									
Nara																									
Wakayama																									
Tottori																									

Shimane																									
Okayama																									
Hiroshima												1	1									1			3
Yamaguchi																									
Tokushima		1																							1
Kagawa																									
Ehime												1			1		1								3
Kochi						1																			1
Fukuoka																									
Saga																									
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									
total	1	2				1		3	1			2	5		2		1	1				2	1		22

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

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