Industrial accidents in heavy electrical equipment in Japan in 1999-2020

heavy electrical equipment industry Code No.011401

Type of accidents in heavy electrical equipment in 1999-2020

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
fall from height	7	13	12	9	14	11	7	14	12	15	9	8	12	17	12	7	4	9	13	13	11	20
falling to same level	15	23	14	11	11	15	20	18	11	12	12	11	15	15	11	17	18	16	12	15	11	17
crash	2	6	4	1	5	-	9	3	3	1	6	6	5	8	2	8	2	4	2	4	1	2
struck by flying or falling object	11	14	10	10	15	20	10	4	7	13	5	10	8	10	7	7	13	7	9	5	8	8
collapse	5	6	3	3	3	4	6	4	7	3	3	5	2	1	7	1	0	4	1	6	1	1
crashed by	5	4	5	3	2	7	6	5	6	7	4	4	4	2	1	3	4	2	3	0	7	1
caught in/between	26	25	25	32	35	21	28	36	25	32	15	19	18	19	17	17	29	27	25	17	19	21
cut	6	10	11	9	9	7	6	7	9	12	3	4	4	7	7	8	5	2	5	6	4	7
injury to the sole of the foot	0	0	2	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
drown	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
contact to high/low-temperature	3	3	2	2	1	4	1	2	3	1	4	0	2	2	2	3	0	2	2	3	2	1
contact to harmful substance	0	0	0	1	0	2	0	2	1	0	0	1	0	0	0	1	0	0	1	0	1	0
electric shock	2	2	0	2	1	1	3	1	0	1	1	0	1	2	3	1	3	0	3	0	0	1
explosion	1	0	0	-	0	-	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
burst	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
fire	0	1	0	-	0	-	0	0	0	0	1	0	0	0	0	0	2	0	2	1	0	0
traffic accident (public road)	5	8	2	-	2	2	4	2	2	5	4	2	4	2	1	2	3	4	0	3	0	2
traffic accident (others)	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
reaction to motion/improper motion	9	8	9	14	6	9	11	19	15	13	8	13	14	14	12	17	8	12	12	13	17	20
others	2	1	1	1	0	1	2	1	1	2	0	1	1	1	0	0	1	0	0	1	0	1

unclassifiable	0	0	0	1	0	-	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1
total	99	124	100	99	104	104	113	118	102	117	77	84	90	101	83	92	93	89	91	87	83	104

Causal agents (middle) of industrial accidents in heavy electrical equipment in 1999-2020

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
engine	0	0	1	1	0	3	0	1	0	0	0	0	0	0	1	0	0	0	2	0	0	0
power transmission mechanism	1	0	0	-	1	-	2	0	1	1	0	1	0	0	1	0	1	2	2	0	0	0
woodworking machine	0	1	2	1	2	-	1	0	2	1	2	0	1	1	1	0	0	0	0	0	2	0
construction machine	0	1	0	-	0	-	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
metal manufacturing machine	15	11	15	12	12	18	12	14	13	14	6	7	9	6	10	14	21	14	10	11	12	12
general machine	8	19	8	15	17	6	7	13	9	10	7	4	3	6	6	4	6	3	12	4	5	8
mobile silviculture machine																	0	0	0	0	0	0
crane	4	3	4	2	5	-	5	5	3	12	1	0	3	2	4	0	6	1	2	3	3	0
conveying machine	1	3	5	4	5	7	11	5	7	8	5	3	3	6	4	6	0	6	2	4	5	7
vehicle	5	9	2	-	2	3	4	2	1	5	3	3	3	3	1	4	5	3	0	3	1	3
pressure vessel	0	1	0	1	1	-	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	-	0	-	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
welding equipment	2	1	2	1	0	2	0	1	3	1	0	2	1	0	0	3	0	0	2	0	0	0
kiln, caldron	1	0	0	1	0	-	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2	1
electric equipment	4	3	0	1	2	1	6	1	1	1	4	0	2	3	2	3	4	3	3	0	1	2
human power machine, tools	4	6	4	4	5	5	2	2	3	7	6	7	4	2	3	2	5	4	1	3	3	4
tools	10	10	12	12	9	14	6	10	8	9	5	9	11	21	13	13	11	10	13	7	8	17
other equipments, facilities	6	1	2	1	3	1	2	4	3	0	5	4	4	2	1	0	2	2	3	3	7	2
temporary buildings,	15	26	19	12	12	14	20	20	13	14	11	14	19	15	8	14	9	20	13	20	11	16

establishments																						
hazards, harmful substances	0	2	1	2	0	3	0	2	2	0	2	1	1	1	1	1	3	0	4	1	1	0
materials	9	13	15	12	14	7	17	13	15	12	9	8	5	12	9	10	8	13	6	14	10	13
load	8	9	3	10	7	7	7	9	8	11	6	11	5	12	6	5	3	1	10	5	5	8
natural environment	0	0	0	1	3	3	0	0	0	1	1	2	3	0	3	1	1	1	0	2	1	1
other causal agent	1	1	1	1	0	2	5	2	3	3	1	3	7	1	1	1	0	0	0	1	0	1
no causal agent	5	4	4	5	4	8	4	12	7	3	2	4	5	7	7	11	8	5	5	6	6	8
unclassifiable	0	0	0	-	0	-	1	0	0	2	1	0	1	0	0	0	0	0	1	0	0	1
total	99	124	100	99	104	104	113	118	102	117	77	84	90	101	83	92	93	89	91	87	83	104

Causal agents (small) of industrial accidents in heavy electrical equipment in 1999-2020

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
engine			1		0		0	1	0	0	0	0	0	0	1	0	0	0	2	0	0	0
power transmission mechanism			0		1		2	0	1	1	0	1	0	0	1	0	1	2	2	0	0	0
circular sawing machine			0		1		0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	0
band sawing machine			0		0		1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
wood planer machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			0		0		0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0
other woodworking machines			2		1		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
leveling, transporting or loading machine			0		0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
excavating machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

foundation work machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hardening machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
demolition machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vehicle for high lift work			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other construction machines			0		0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
lathe			0		1		1	1	1	4	0	1	4	0	1	2	1	1	1	3	2	2
drill press, milling machine			3		3		3	4	1	1	1	3	2	1	2	2	2	2	2	3	0	0
grinding machine, buffing machine			3		1		2	1	0	0	0	0	1	0	0	3	4	2	0	0	1	3
power press			3		4		3	3	6	4	4	1	2	4	3	3	5	3	2	0	6	4
forging pressure hammer			0		0		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine			1		1		1	0	2	1	0	0	0	0	1	0	0	1	1	3	1	1
other metal manufacturing machines			5		2		1	5	3	4	1	2	0	1	3	4	9	5	4	2	2	2
centrifugal machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
mixer, grinder			0		0		0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
roll machine (except printingroll machine)			0		1		1	0	0	1	1	0	0	0	0	0	0	0	2	0	1	0
injection molding machine			1		0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
food manufacturing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
printing machine			0		0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial robot			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other general power machines			7		16		6	12	8	9	6	3	3	6	6	4	6	2	10	4	3	8
felling machine																	0	0	0	0	0	0
mobile logging machine																	0	0	0	0	0	0
skyline yarding																						

machine																	0	0	0	0	0	0
other mobile silviculture machine																	0	0	0	0	0	0
crane			4		5		4	3	3	11	1	0	1	2	4	0	6	1	2	2	2	0
mobile crane			0		0		0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0
derrick crane			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift			0		0		0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0
cargo lifting appliance			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gondola			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lumberyard equipment, logging cableway			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
simple skyline yarding equipment																	0	0	0	0	0	0
other powered crane			0		0		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
truck			0		0		3	0	7	3	1	2	0	2	3	2	0	2	1	4	3	4
forklift			4		3		5	3	0	2	2	0	2	2	1	1	0	2	0	0	2	0
railway equipment			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveyor			0		2		2	1	0	2	0	0	1	1	0	1	0	2	1	0	0	3
loader			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
straddle carrier			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rough terrain hauler			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other powered conveying machines			1		0		1	1	0	1	2	1	0	1	0	2	0	0	0	0	0	0
cars, bus, motorcycle			2		2		4	2	1	5	3	3	3	3	1	4	5	3	0	3	1	3
railway vehicle			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other vehicles			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
boiler			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel			0		1		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other pressure vessels			0		0		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
chemical facilities			0		0		1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
gas welding			1		0		0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0

equipment																						
arc welding equipment			0		0		0	0	1	1	0	1	1	0	0	1	0	0	0	0	0	0
other welding equipment			1		0		0	1	0	0	0	1	0	0	0	2	0	0	1	0	0	0
kiln, caldron			0		0		0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1
industrial dryer			0		0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission			0		1		0	0	0	0	2	0	0	1	0	0	0	0	1	0	1	0
electric power facilities			0		0		3	1	0	0	1	0	0	2	1	2	3	3	1	0	0	1
other electrical equipment			0		1		3	0	1	1	1	0	2	0	1	1	1	0	1	0	0	1
human power cranes			0		0		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
human power hauling equipment			1		3		1	1	2	4	5	5	3	1	1	2	2	4	0	2	1	3
human power machine			0		0		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool			3		2		0	1	1	3	1	2	1	1	2	0	2	0	1	1	2	1
ladder			5		6		3	6	6	4	5	4	3	11	7	6	4	5	6	5	6	13
slinging tool			3		0		2	1	1	0	0	1	0	1	2	3	1	2	2	0	0	2
other tools			4		3		1	3	1	5	0	4	8	9	4	4	6	3	5	2	2	2
other equipment, facilities			2		3		2	4	3	0	5	4	4	2	1	0	2	2	3	3	7	2
scaffolding			0		0		0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
timbering			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage			5		3		5	3	1	5	2	1	3	0	3	1	2	4	1	2	2	3
opening			0		0		0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1
roof, beam, haze, crossbeam, principal rafter			1		0		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
working platform, boot board			2		1		5	2	4	1	3	0	4	3	0	4	1	0	1	3	2	1
passage			6		3		10	9	3	5	5	8	5	8	4	8	5	10	8	11	5	9
building, establishment			3		1		0	4	3	2	0	3	2	1	1	1	1	3	2	2	0	1

other temporary buildings, establishments			2		4		0	2	1	1	0	2	3	3	0	0	0	2	1	2	1	1
explosive substance			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance			0		0		0	0	1	0	1	0	0	0	1	0	2	0	0	1	0	0
inflammable gas			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
harmful substance			0		0		0	2	0	0	1	1	1	1	0	0	0	0	1	0	1	0
radiation			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances			1		0		0	0	1	0	0	0	0	0	0	1	1	0	3	0	0	0
metal material			12		12		16	11	13	10	8	7	4	12	8	9	6	10	6	13	9	11
lumber, bamboo			0		2		0	0	0	1	1	0	0	0	1	0	0	1	0	0	1	1
stone, sand, substance			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials			3		0		1	2	2	1	0	1	1	0	0	1	2	2	0	1	0	1
load			2		5		6	7	3	8	4	9	5	9	6	3	2	0	9	4	4	5
machine/equipment as load			1		2		1	2	5	3	2	2	0	3	0	2	1	1	1	1	1	3
natural ground, rock			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
standing tree			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
water			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
abnormal environment			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment			0		0		0	0	0	1	1	1	1	0	2	0	0	0	0	1	0	1
other environments			0		2		0	0	0	0	0	1	2	0	1	1	1	1	0	1	1	0
other causal agent			1		0		5	2	3	3	1	3	7	1	1	1	0	0	0	1	0	1
no causal agent			4		4		4	12	7	3	2	4	5	7	7	11	8	5	5	6	6	8
unclassifiable			0		0		1	0	0	2	1	0	1	0	0	0	0	0	1	0	0	1
total			100		104		113	118	102	117	77	84	90	101	83	92	93	89	91	87	83	104

Workers age of industrial accidents in heavy electrical equipment in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020

19 years old or less	3	1	6	2	4	4	3	5	3	5	3	2	3	3	5	2	2	0	1	1	1	2
20-29	19	32	17	19	17	18	23	24	19	19	13	15	14	19	19	27	11	18	16	14	13	12
30-39	18	30	12	20	17	13	27	30	27	32	14	25	20	23	18	12	26	16	22	18	14	17
40-49	24	25	17	21	24	19	18	20	24	24	16	23	19	19	14	23	26	18	19	15	22	22
50-59	29	23	39	29	33	38	29	26	19	22	18	13	20	23	17	12	16	23	19	24	16	33
60 years old or more	6	13	9	8	9	12	13	13	10	15	13	6	14	14	10	16	12	14	14	15	17	18
total	99	124	100	99	104	104	113	118	102	117	77	84	90	101	83	92	93	89	91	87	83	104

Workers' number of workplace of industrial accidents in heavy electrical equipment in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	13	13	16	16	20	21	15	11	12	15	4	8	7	10	10	7	7	9	6	8	3	7
10-29	25	25	19	20	23	16	19	23	29	16	16	13	18	21	13	13	22	9	11	14	14	16
30-49	11	20	8	9	11	10	14	19	10	14	11	12	5	4	11	8	4	12	9	15	9	7
50-99	20	17	23	21	15	17	16	18	15	16	17	10	11	17	9	13	14	18	12	11	17	23
100-299	12	23	8	16	16	19	23	18	11	29	11	21	21	21	20	29	26	13	22	21	23	23
300 workers or more	18	26	26	17	19	21	26	29	25	27	18	20	28	28	20	22	20	28	31	18	17	28
total	99	124	100	99	104	104	113	118	102	117	77	84	90	101	83	92	93	89	91	87	83	104

Month of industrial accidents in heavy electrical equipment in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	7	11	6	6	15	10	10	10	12	4	9	6	5	13	6	8	6	6	7	10	6	10
February	7	14	12	10	12	12	10	13	10	12	6	5	10	5	9	9	7	10	10	4	10	11
March	6	11	6	6	7	13	9	10	3	12	6	6	10	13	7	5	13	10	10	7	7	7
April	7	13	13	9	8	8	5	5	6	12	12	6	5	4	4	7	6	7	9	6	8	6
May	7	12	5	12	6	10	10	6	8	5	7	10	7	10	3	4	7	11	5	10	8	6
June	7	10	12	5	9	8	11	4	9	13	6	5	10	10	3	8	5	4	9	7	6	11
July	13	5	5	7	13	6	8	11	8	8	4	7	6	8	6	11	9	9	7	11	12	12
August	10	12	9	10	6	13	6	8	15	8	4	6	3	6	12	8	7	4	7	8	8	10
September	6	5	9	8	6	6	10	11	10	12	5	14	10	12	9	12	11	5	3	6	8	8
October	11	8	8	10	8	4	10	20	4	13	10	9	10	7	10	9	4	5	9	8	3	7
November	11	14	8	9	11	8	15	9	5	8	5	5	10	9	5	7	8	10	9	5	5	5
December	7	9	7	7	3	6	9	11	12	10	3	5	4	4	9	4	10	8	6	5	2	11

total	99	124	100	99	104	104	113	118	102	117	77	84	90	101	83	92	93	89	91	87	83	104

Prefecture of industrial accidents in heavy electrical equipment in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	1	3	1		0		0	1	3	0	2	0	1	0	0	1	0	1	0	2	2	2
Aomori	0	0	0		0		0	2	1	0	0	1	1	0	1	1	0	0	0	1	0	0
Iwate	0	0	0		0		1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0
Miyagi	1	1	0		0		0	4	1	1	0	3	2	0	1	0	0	0	2	1	0	1
Akita	1	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Yamagata	1	2	3		1		2	3	2	1	4	3	3	2	2	5	3	0	2	2	0	1
Fukushima	1	0	2		5		2	1	3	5	3	9	5	8	8	8	3	2	1	3	2	2
Ibaraki	7	9	4		3		4	8	5	7	5	3	8	7	9	8	4	5	3	2	2	4
Tochigi	0	1	0		1		4	2	1	2	3	1	1	3	0	2	2	2	2	2	1	3
Gunma	2	3	1		2		5	4	2	2	0	0	2	2	0	1	5	0	3	2	1	3
Saitama	2	3	8		5		3	6	4	1	3	2	0	1	4	2	1	4	1	3	2	2
Chiba	4	5	2		3		2	1	1	1	2	1	1	2	3	2	2	4	2	2	1	0
Tokyo	7	5	1		0		1	3	2	1	0	4	2	2	1	0	2	2	1	2	1	1
Kanagawa	10	5	8		3		8	3	8	11	6	8	4	4	3	4	4	2	10	9	5	1
Niigata	2	0	0		4		0	4	1	3	3	0	2	2	1	2	4	3	1	1	6	4
Toyama	0	1	1		1		0	3	0	4	0	0	1	1	2	0	0	1	3	2	0	2
Ishikawa	3	3	2		0		3	4	3	5	2	1	3	3	3	4	0	2	2	2	3	3
Fukui	0	1	0		0		2	1	0	1	0	1	0	0	1	0	1	1	0	3	3	0
Yamanashi	2	11	0		10		4	7	4	4	0	2	2	0	4	5	2	1	0	0	1	3
Nagano	0	3	3		4		3	1	1	0	1	3	0	0	0	1	0	0	1	3	0	2
Gifu	8	6	2		2		4	1	1	1	0	0	2	1	1	0	2	0	2	2	3	1
Shizuoka	3	2	8		6		4	6	9	2	4	6	3	7	1	4	7	10	10	6	2	6
Aichi	6	6	10		4		7	6	8	8	4	2	4	5	5	3	3	4	8	7	5	9
Mie	4	7	4		5		4	7	1	7	0	1	5	2	1	2	2	3	2	2	0	3
Shiga	2	5	2		2		1	1	2	4	0	0	1	1	0	1	2	1	0	0	1	1
Kyoto	7	7	5		8		5	5	3	6	6	3	0	5	2	0	3	5	3	4	1	4
Osaka	4	2	1		8		10	13	3	8	6	8	7	5	5	8	6	4	4	3	7	7
Hyogo	5	8	10		4		8	4	1	6	4	4	6	10	5	5	9	8	3	5	2	3
Nara	0	0	0		0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Wakayama	1	0	2		0		1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
Tottori	1	3	0		1		0	1	0	0	0	0	1	0	0	1	1	0	1	0	0	1

Shimane	0	0	0		0		0	0	0	1	3	1	1	1	0	0	0	0	0	0	0	0
Okayama	0	1	0		1		3	2	1	1	1	0	3	2	1	1	2	0	1	0	1	3
Hiroshima	2	3	0		5		3	3	7	2	4	4	5	7	3	4	3	3	3	3	7	5
Yamaguchi	0	1	0		1		0	1	2	1	3	1	1	2	1	1	3	2	6	0	1	0
Tokushima	0	2	0		1		2	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0
Kagawa	3	2	1		2		0	0	1	1	0	0	0	0	1	1	3	3	0	0	1	5
Ehime	2	2	1		0		1	0	3	2	0	2	0	0	3	4	0	0	2	1	3	1
Kochi	0	0	1		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	2	7	10		6		8	6	7	10	3	2	5	8	7	9	8	8	8	10	11	14
Saga	1	0	0		1		2	1	0	1	0	1	1	2	1	0	1	2	2	1	1	2
Nagasaki	1	1	3		0		2	2	5	4	2	3	2	0	1	1	0	2	1	1	4	3
Kumamoto	1	1	0		1		1	0	0	1	0	2	2	2	1	0	0	3	0	0	0	2
Oita	0	0	0		1		1	0	1	1	1	0	1	0	0	1	1	0	0	0	0	0
Miyazaki	0	1	0		2		0	0	0	0	1	1	1	1	0	0	1	0	0	0	0	0
Kagoshima	1	1	3		1		1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Okinawa	1	0	1		0		1	1	3	0	0	0	0	3	1	0	0	0	1	0	1	0
total	99	124	100		104		113	118	102	117	77	84	90	101	83	92	93	89	91	87	83	104

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial accidents caused by Great East Japan Earthquake in 2011.

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

Return to https://www.jisha.or.jp/english/statistics/2020e_industry.html

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Fatal accidents in heavy electrical equipment in Japan in 1999-2020

heavy electrical equipment industry Code No.011401

Type of fatal accidents in heavy electrical equipment in 1999-2020

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
fall from height	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
falling to same level	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
crash	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck by flying or	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

falling object																						
collapse	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
crashed by	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
caught in/between	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	1
cut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
injury to the sole of the foot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
contact to high/low-temperature	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
contact to harmful substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric shock	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
explosion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
burst	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
fire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
traffic accident (public road)	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
traffic accident (others)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
reaction to motion/improper motion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
others	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	1	4	1	0	1	0	0	2	1	2	1	0	0	0	1	0	1	1	1	0	0	1

Causal agents (middle) of fatal accidents in heavy electrical equipment in 1999-2020

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
engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
woodworking machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

construction machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
metal manufacturing machine	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
conveying machine	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vehicle	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
electric equipment	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine, tools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
other equipments, facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
temporary buildings, establishments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hazards, harmful substances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	1	4	1	0	1	0	0	2	1	2	1	0	0	0	1	0	1	1	1	0	0	1

Causal agents (small) of fatal accidents in heavy electrical equipment in 1999-2020

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
engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
circular sawing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
band sawing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other woodworking machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
leveling, transporting or loading machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
excavating machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
foundation work machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hardening machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
demolition machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vehicle for high lift work	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other construction machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lathe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drill press, milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
grinding machine,																						

buffing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power press	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
forging pressure hammer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
centrifugal machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
roll machine (except printingroll machine)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
injection molding machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
food manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
printing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial robot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other general power machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
felling machine																	0	0	0	0	0	0
mobile logging machine																	0	0	0	0	0	0
skyline yarding machine																	0	0	0	0	0	0
other mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
mobile crane	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
derrick crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cargo lifting appliance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gondola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lumberyard equipment, logging	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

cableway																						
simple skyline yarding equipment																	0	0	0	0	0	0
other powered crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
truck	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
forklift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
railway equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveyor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
loader	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
straddle carrier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rough terrain hauler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other powered conveying machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cars, bus, motorcycle	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
railway vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
boiler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other pressure vessels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
gas welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
arc welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
industrial dryer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric power facilities	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other electrical equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

human power cranes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power hauling equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ladder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
slinging tool	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other tools	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
other equipment, facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
scaffolding	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
timbering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
opening	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
roof, beam, haze, crossbeam, principal rafter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
working platform, boot board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
passage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
building, establishment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other temporary buildings, establishments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
explosive substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
harmful substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
radiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
metal material	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lumber, bamboo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

stone, sand, substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
machine/equipment as load	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural ground, rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
abnormal environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other environments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	1	4	1	0	1	0	0	2	1	2	1	0	0	0	1	0	1	1	1	0	0	1

Workers age of fatal accidents in heavy electrical equipment in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-29	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
30-39	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40-49	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	1	0	0	1
50-59	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0
60 years old or more	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
total	1	4	1	0	1	0	0	2	1	2	1	0	0	0	1	0	1	1	1	0	0	1

Workers' number of workplace of fatal accidents in heavy electrical equipment in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0

10-29	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
30-49	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50-99	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
100-299	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
300 workers or more	0	2	1	0	0	0	0	1	1	1	0	0	0	0	1	0	1	0	0	0	0	1
total	1	4	1	0	1	0	0	2	1	2	1	0	0	0	1	0	1	1	1	0	0	1

Month of fatal accidents in heavy electrical equipment in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
February	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
November	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
total	1	4	1	0	1	0	0	2	1	2	1	0	0	0	1	0	1	1	1	0	0	1

Prefecture of fatal accidents in heavy electrical equipment in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aomori	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iwate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miyagi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Akita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukushima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Ibaraki	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0

Tochigi	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gunma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saitama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chiba	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tokyo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kanagawa	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
Niigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Toyama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ishikawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukui	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamanashi	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagano	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gifu	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shizuoka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aichi	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Mie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shiga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyoto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Osaka	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyogo	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Nara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wakayama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tottori	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shimane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okayama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hiroshima	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamaguchi	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Tokushima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehime	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagasaki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kumamoto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Oita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miyazaki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagoshima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okinawa	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	1	4	1	0	1	0	0	2	1	2	1	0	0	0	1	0	1	1	1	0	0	1

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

Return to https://www.jisha.or.jp/english/statistics/2020e_industry.html