

Fatal and non-fatal accidents in heavy electrical equipment in Japan in 1999-2021

heavy electrical equipment industry Code No.011401

Type of accidents in heavy electrical equipment in 1999-2021

| 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 | total | Type of accidents |
|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------------------------------------|
| 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 | 10 | 259 | fall from height |
| 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 | 17 | 337 | falling to same level |
| crash | 2 | 6 | 4 | 1 | 5 | | 9 | 3 | 3 | 1 | 6 | 6 | 5 | 8 | 2 | 8 | 2 | 4 | 2 | 4 | 1 | 2 | 2 | 86 | crash |
| 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 | 7 | 218 | struck by flying or falling object |
| collapse | 5 | 6 | 3 | 3 | 3 | 4 | 6 | 4 | 7 | 3 | 3 | 5 | 2 | 1 | 7 | 1 | | 4 | 1 | 6 | 1 | 1 | 4 | 80 | collapse |
| crashed by | 5 | 4 | 5 | 3 | 2 | 7 | 6 | 5 | 6 | 7 | 4 | 4 | 4 | 2 | 1 | 3 | 4 | 2 | 3 | | 7 | 1 | 3 | 88 | crashed by |
| 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 | 19 | 547 | caught in/between |
| cut | 6 | 10 | 11 | 9 | 9 | 7 | 6 | 7 | 9 | 12 | 3 | 4 | 4 | 7 | 7 | 8 | 5 | 2 | 5 | 6 | 4 | 7 | 9 | 157 | cut |
| injury to the sole of the foot | | | 2 | | | | | | | | | | | | | | | | | | | 1 | | 3 | injury to the sole of the foot |
| drown | | | | | | | | | | | | | | | | | | | | | | | | | drown |
| contact to high/low-temperature | 3 | 3 | 2 | 2 | 1 | 4 | 1 | 2 | 3 | 1 | 4 | | 2 | 2 | 2 | 3 | | 2 | 2 | 3 | 2 | 1 | 1 | 46 | contact to high/low-temperature |

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| machine | | | 1 | | | | | | | | 1 | | | | | | | | | | | | 2 | machine | | |
| food manufacturing machine | | | | | | | | | | | | | | | | | | | | | | | | | food manufacturing machine | |
| printing machine | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | printing machine | |
| industrial robot | | | | | | | | | | | | | | | | | | | | | | | | | industrial robot | |
| other general power machines | | | 7 | | 16 | | 6 | 12 | 8 | 9 | 6 | 3 | 3 | 6 | 6 | 4 | 6 | 2 | 10 | 4 | 3 | 8 | 12 | 131 | other general power machines | |
| felling machine | | | | | | | | | | | | | | | | | | | | | | | | | felling machine | |
| mobile logging machine | | | | | | | | | | | | | | | | | | | | | | | | | mobile logging machine | |
| skyline yarding machine | | | | | | | | | | | | | | | | | | | | | | | | | skyline yarding machine | |
| other mobile silviculture machine | | | | | | | | | | | | | | | | | | | | | | | | | other mobile silviculture machine | |
| crane | | | 4 | | 5 | | 4 | 3 | 3 | 11 | 1 | | 1 | 2 | 4 | | 6 | 1 | 2 | 2 | 2 | | 5 | 56 | crane | |
| mobile crane | | | | | | | | 1 | | | | | 1 | | | | | | | | | | | 1 | 3 | mobile crane |
| derrick crane | | | | | | | | | | | | | | | | | | | | | | | | | | derrick crane |
| elevator, lift | | | | | | | | 1 | | 1 | | | 1 | | | | | | | | | | | 1 | 4 | elevator, lift |
| cargo lifting appliance | | | | | | | | | | | | | | | | | | | | | | | | | | cargo lifting appliance |
| gondola | | | | | | | | | | | | | | | | | | | | | | | | | | gondola |
| lumberyard equipment, logging cableway | | | | | | | | | | | | | | | | | | | | | | | | | | lumberyard equipment, logging cableway |

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| simple skyline yarding equipment | | | | | | | | | | | | | | | | | | | | | | | | simple skyline yarding equipment |
| other powered crane | | | | | | 1 | | | | | | | | | | | | | | | | | 1 | other powered crane |
| truck | | | | | | 3 | | 7 | 3 | 1 | 2 | | 2 | 3 | 2 | | 2 | 1 | 4 | 3 | 4 | 1 | 38 | truck |
| forklift | | | 4 | | 3 | 5 | 3 | | 2 | 2 | | 2 | 2 | 1 | 1 | | 2 | | | 2 | | 1 | 30 | forklift |
| railway equipment | | | | | | | | | | | | | | | | | | | | | | | | railway equipment |
| conveyor | | | | | 2 | 2 | 1 | | 2 | | | 1 | 1 | | 1 | | 2 | 1 | | | 3 | 1 | 17 | conveyor |
| loader | | | | | | | | | | | | | | | | | | | | | | | | loader |
| straddle carrier | | | | | | | | | | | | | | | | | | | | | | | | straddle carrier |
| rough terrain hauler | | | | | | | | | | | | | | | | | | | | | | | | rough terrain hauler |
| other powered conveying machines | | | 1 | | | 1 | 1 | | 1 | 2 | 1 | | 1 | | 2 | | | | | | | | 10 | other powered conveying machines |
| cars, bus, motorcycle | | | 2 | | 2 | 4 | 2 | 1 | 5 | 3 | 3 | 3 | 3 | 1 | 4 | 5 | 3 | | 3 | 1 | 3 | | 48 | cars, bus, motorcycle |
| railway vehicle | | | | | | | | | | | | | | | | | | | | | | | | railway vehicle |
| other vehicles | | | | | | | | | | | | | | | | | | | | | | | | other vehicles |
| boiler | | | | | | | | | | | | | | | | | | | | | | | | boiler |
| pressure vessel | | | | | 1 | | 1 | | | | | | | | | | | | | | | | 2 | pressure vessel |
| other pressure vessels | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | other pressure vessels |
| chemical facilities | | | | | | 1 | 1 | | | | | | | 1 | | | | | | | | | 3 | chemical facilities |
| gas welding | | | 1 | | | | | | 2 | | | | | | | | | 1 | | | | 1 | 5 | gas welding |

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| facilities | | | 2 | | 3 | | 2 | 4 | 3 | | 5 | 4 | 4 | 2 | 1 | | 2 | 2 | 3 | 3 | 7 | 2 | 3 | 52 | facilities |
| scaffolding | | | | | | | | | | | | | 1 | | | | | | | | | | | 2 | scaffolding |
| timbering | | | | | | | | | | | | | | | | | | | | | | | | | timbering |
| stairs, landing stage | | | 5 | | 3 | | 5 | 3 | 1 | 5 | 2 | 1 | 3 | | 3 | 1 | 2 | 4 | 1 | 2 | 2 | 3 | 3 | 49 | stairs, landing stage |
| opening | | | | | | | | | 1 | | 1 | | 1 | | | | | | | | | 1 | | 4 | opening |
| roof, beam, haze, crossbeam, principal rafter | | | 1 | | | | | | | | | | | | | | | 1 | | | | | | 2 | roof, beam, haze, crossbeam, principal rafter |
| working platform, boot board | | | 2 | | 1 | | 5 | 2 | 4 | 1 | 3 | | 4 | 3 | | 4 | 1 | | 1 | 3 | 2 | 1 | | 37 | working platform, boot board |
| passage | | | 6 | | 3 | | 10 | 9 | 3 | 5 | 5 | 8 | 5 | 8 | 4 | 8 | 5 | 10 | 8 | 11 | 5 | 9 | 14 | 136 | passage |
| building, establishment | | | 3 | | 1 | | | 4 | 3 | 2 | | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 2 | 2 | | 1 | 1 | 31 | building, establishment |
| other temporary buildings, establishments | | | 2 | | 4 | | | 2 | 1 | 1 | | 2 | 3 | 3 | | | | 2 | 1 | 2 | 1 | 1 | 1 | 26 | other temporary buildings, establishments |
| explosive substance | | | | | | | | | | | | | | | | | | | | | | | | | explosive substance |
| inflammable substance | | | | | | | | | 1 | | 1 | | | | 1 | | 2 | | | 1 | | | | 6 | inflammable substance |
| inflammable gas | | | | | | | | | | | | | | | | | | | | | | | | | inflammable gas |
| harmful substance | | | | | | | | 2 | | | 1 | 1 | 1 | 1 | | | | | 1 | | 1 | | | 8 | harmful substance |
| radiation | | | | | | | | | | | | | | | | | | | | | | | | | radiation |
| other hazards, harmful substances | | | 1 | | | | | | 1 | | | | | | | 1 | 1 | | 3 | | | | 1 | 8 | other hazards, harmful substances |

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|---|--|--|-----|--|-----|--|-----|-----|-----|-----|----|----|----|-----|----|----|----|----|----|----|----|-----|-----|-------|---|
| metal material | | | 12 | | 12 | | 16 | 11 | 13 | 10 | 8 | 7 | 4 | 12 | 8 | 9 | 6 | 10 | 6 | 13 | 9 | 11 | 4 | 181 | metal material |
| lumber, bamboo | | | | | 2 | | | | | 1 | 1 | | | | 1 | | | 1 | | | 1 | 1 | | 8 | lumber, bamboo |
| stone, sand, substance | | | | | | | | | | | | | | | | | | | | | | | | | stone, sand, substance |
| other materials | | | 3 | | | | 1 | 2 | 2 | 1 | | 1 | 1 | | | 1 | 2 | 2 | | 1 | | 1 | 1 | 19 | other materials |
| load | | | 2 | | 5 | | 6 | 7 | 3 | 8 | 4 | 9 | 5 | 9 | 6 | 3 | 2 | | 9 | 4 | 4 | 5 | 2 | 93 | load |
| machine/equipment as load | | | 1 | | 2 | | 1 | 2 | 5 | 3 | 2 | 2 | | 3 | | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 34 | machine/equipment as load |
| natural ground, rock | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 | natural ground, rock |
| standing tree | | | | | | | | | | | | | | | | | | | | | | | | | standing tree |
| water | | | | | | | | | | | | | | | | | | | | | | | | | water |
| abnormal environment | | | | | | | | | | | | | | | | | | | | | | | | | abnormal environment |
| high/cold temperature environment | | | | | | | | | | 1 | 1 | 1 | 1 | | 2 | | | | | 1 | | 1 | | 8 | high/cold temperature environment |
| other environments | | | | | 2 | | | | | | | 1 | 2 | | 1 | 1 | 1 | 1 | | 1 | 1 | | | 11 | other environments |
| other causal agent | | | 1 | | | | 5 | 2 | 3 | 3 | 1 | 3 | 7 | 1 | 1 | 1 | | | | 1 | | 1 | 11 | 41 | other causal agent |
| no causal agent | | | 4 | | 4 | | 4 | 12 | 7 | 3 | 2 | 4 | 5 | 7 | 7 | 11 | 8 | 5 | 5 | 6 | 6 | 8 | 11 | 119 | no causal agent |
| unclassifiable | | | | | | | 1 | | | 2 | 1 | | 1 | | | | | | 1 | | | 1 | | 7 | unclassifiable |
| total | | | 100 | | 104 | | 113 | 118 | 102 | 117 | 77 | 84 | 90 | 101 | 83 | 92 | 93 | 89 | 91 | 87 | 83 | 104 | 100 | 1,828 | total |

Workers age of fatal and non-fatal accidents in heavy electrical equipment in 1999-2021

| Age | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Age |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------------------|
| 19 years old or less | 3 | 1 | 6 | 2 | 4 | 4 | 3 | 5 | 3 | 5 | 3 | 2 | 3 | 3 | 5 | 2 | 2 | | 1 | 1 | 1 | 2 | 6 | 67 | 19 years old or less |
| 20-29 | 19 | 32 | 17 | 19 | 17 | 18 | 23 | 24 | 19 | 19 | 13 | 15 | 14 | 19 | 19 | 27 | 11 | 18 | 16 | 14 | 13 | 12 | 12 | 410 | 20-29 |
| 30-39 | 18 | 30 | 12 | 20 | 17 | 13 | 27 | 30 | 27 | 32 | 14 | 25 | 20 | 23 | 18 | 12 | 26 | 16 | 22 | 18 | 14 | 17 | 15 | 466 | 30-39 |
| 40-49 | 24 | 25 | 17 | 21 | 24 | 19 | 18 | 20 | 24 | 24 | 16 | 23 | 19 | 19 | 14 | 23 | 26 | 18 | 19 | 15 | 22 | 22 | 27 | 479 | 40-49 |
| 50-59 | 29 | 23 | 39 | 29 | 33 | 38 | 29 | 26 | 19 | 22 | 18 | 13 | 20 | 23 | 17 | 12 | 16 | 23 | 19 | 24 | 16 | 33 | 26 | 547 | 50-59 |
| 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 | 14 | 285 | 60 years old or more |
| total | 99 | 124 | 100 | 99 | 104 | 104 | 113 | 118 | 102 | 117 | 77 | 84 | 90 | 101 | 83 | 92 | 93 | 89 | 91 | 87 | 83 | 104 | 100 | 2,254 | total |

Workers' number of workplace of fatal and non-fatal accidents in heavy electrical equipment in 1999-2021

| 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 | total | Workers scale |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------------|
| 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 | 2 | 240 | 9 workers or less |
| 10-29 | 25 | 25 | 19 | 20 | 23 | 16 | 19 | 23 | 29 | 16 | 16 | 13 | 18 | 21 | 13 | 13 | 22 | 9 | 11 | 14 | 14 | 16 | 22 | 417 | 10-29 |
| 30-49 | 11 | 20 | 8 | 9 | 11 | 10 | 14 | 19 | 10 | 14 | 11 | 12 | 5 | 4 | 11 | 8 | 4 | 12 | 9 | 15 | 9 | 7 | 10 | 243 | 30-49 |
| 50-99 | 20 | 17 | 23 | 21 | 15 | 17 | 16 | 18 | 15 | 16 | 17 | 10 | 11 | 17 | 9 | 13 | 14 | 18 | 12 | 11 | 17 | 23 | 19 | 369 | 50-99 |
| 100-299 | 12 | 23 | 8 | 16 | 16 | 19 | 23 | 18 | 11 | 29 | 11 | 21 | 21 | 21 | 20 | 29 | 26 | 13 | 22 | 21 | 23 | 23 | 20 | 446 | 100-299 |
| 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 | 27 | 539 | 300 workers or more |
| total | 99 | 124 | 100 | 99 | 104 | 104 | 113 | 118 | 102 | 117 | 77 | 84 | 90 | 101 | 83 | 92 | 93 | 89 | 91 | 87 | 83 | 104 | 100 | 2,254 | total |

Month of fatal and non-fatal accidents in heavy electrical equipment in 1999-2021

| Month | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Month |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----------|
| January | 7 | 11 | 6 | 6 | 15 | 10 | 10 | 10 | 12 | 4 | 9 | 6 | 5 | 13 | 6 | 8 | 6 | 6 | 7 | 10 | 6 | 10 | 8 | 191 | January |
| February | 7 | 14 | 12 | 10 | 12 | 12 | 10 | 13 | 10 | 12 | 6 | 5 | 10 | 5 | 9 | 9 | 7 | 10 | 10 | 4 | 10 | 11 | 3 | 211 | February |
| March | 6 | 11 | 6 | 6 | 7 | 13 | 9 | 10 | 3 | 12 | 6 | 6 | 10 | 13 | 7 | 5 | 13 | 10 | 10 | 7 | 7 | 7 | 10 | 194 | March |
| April | 7 | 13 | 13 | 9 | 8 | 8 | 5 | 5 | 6 | 12 | 12 | 6 | 5 | 4 | 4 | 7 | 6 | 7 | 9 | 6 | 8 | 6 | 9 | 175 | April |
| May | 7 | 12 | 5 | 12 | 6 | 10 | 10 | 6 | 8 | 5 | 7 | 10 | 7 | 10 | 3 | 4 | 7 | 11 | 5 | 10 | 8 | 6 | 7 | 176 | May |
| June | 7 | 10 | 12 | 5 | 9 | 8 | 11 | 4 | 9 | 13 | 6 | 5 | 10 | 10 | 3 | 8 | 5 | 4 | 9 | 7 | 6 | 11 | 9 | 181 | June |
| July | 13 | 5 | 5 | 7 | 13 | 6 | 8 | 11 | 8 | 8 | 4 | 7 | 6 | 8 | 6 | 11 | 9 | 9 | 7 | 11 | 12 | 12 | 4 | 190 | July |
| August | 10 | 12 | 9 | 10 | 6 | 13 | 6 | 8 | 15 | 8 | 4 | 6 | 3 | 6 | 12 | 8 | 7 | 4 | 7 | 8 | 8 | 10 | 17 | 197 | August |
| September | 6 | 5 | 9 | 8 | 6 | 6 | 10 | 11 | 10 | 12 | 5 | 14 | 10 | 12 | 9 | 12 | 11 | 5 | 3 | 6 | 8 | 8 | 10 | 196 | September |
| October | 11 | 8 | 8 | 10 | 8 | 4 | 10 | 20 | 4 | 13 | 10 | 9 | 10 | 7 | 10 | 9 | 4 | 5 | 9 | 8 | 3 | 7 | 6 | 193 | October |
| November | 11 | 14 | 8 | 9 | 11 | 8 | 15 | 9 | 5 | 8 | 5 | 5 | 10 | 9 | 5 | 7 | 8 | 10 | 9 | 5 | 5 | 5 | 10 | 191 | November |
| December | 7 | 9 | 7 | 7 | 3 | 6 | 9 | 11 | 12 | 10 | 3 | 5 | 4 | 4 | 9 | 4 | 10 | 8 | 6 | 5 | 2 | 11 | 7 | 159 | December |
| total | 99 | 124 | 100 | 99 | 104 | 104 | 113 | 118 | 102 | 117 | 77 | 84 | 90 | 101 | 83 | 92 | 93 | 89 | 91 | 87 | 83 | 104 | 100 | 2,254 | total |

Prefecture of fatal and non-fatal accidents in heavy electrical equipment in 1999-2021

| Prefecture | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Prefecture |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------------|
| Hokkaido | 1 | 3 | 1 | | | | | 1 | 3 | | 2 | | 1 | | | 1 | | 1 | | 2 | 2 | 2 | 2 | 22 | Hokkaido |
| Aomori | | | | | | | | 2 | 1 | | | 1 | 1 | | 1 | 1 | | | | 1 | | | | 8 | Aomori |
| Iwate | | | | | | | 1 | | | 1 | 1 | | 1 | | | | | | | | | | 1 | 5 | Iwate |

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| Miyagi | 1 | 1 | | | | | | 4 | 1 | 1 | | 3 | 2 | | 1 | | | | 2 | 1 | | 1 | | 18 | Miyagi | |
| Akita | 1 | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | Akita |
| Yamagata | 1 | 2 | 3 | | 1 | | 2 | 3 | 2 | 1 | 4 | 3 | 3 | 2 | 2 | 5 | 3 | | 2 | 2 | | 1 | 2 | 44 | Yamagata | |
| Fukushima | 1 | | 2 | | 5 | | 2 | 1 | 3 | 5 | 3 | 9 | 5 | 8 | 8 | 8 | 3 | 2 | 1 | 3 | 2 | 2 | 1 | 74 | Fukushima | |
| Ibaraki | 7 | 9 | 4 | | 3 | | 4 | 8 | 5 | 7 | 5 | 3 | 8 | 7 | 9 | 8 | 4 | 5 | 3 | 2 | 2 | 4 | | 107 | Ibaraki | |
| Tochigi | | 1 | | | 1 | | 4 | 2 | 1 | 2 | 3 | 1 | 1 | 3 | | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 34 | Tochigi | |
| Gunma | 2 | 3 | 1 | | 2 | | 5 | 4 | 2 | 2 | | | 2 | 2 | | 1 | 5 | | 3 | 2 | 1 | 3 | 6 | 46 | Gunma | |
| Saitama | 2 | 3 | 8 | | 5 | | 3 | 6 | 4 | 1 | 3 | 2 | | 1 | 4 | 2 | 1 | 4 | 1 | 3 | 2 | 2 | 2 | 59 | Saitama | |
| Chiba | 4 | 5 | 2 | | 3 | | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 2 | 4 | 2 | 2 | 1 | | | 41 | Chiba | |
| Tokyo | 7 | 5 | 1 | | | | 1 | 3 | 2 | 1 | | 4 | 2 | 2 | 1 | | 2 | 2 | 1 | 2 | 1 | 1 | 6 | 44 | Tokyo | |
| Kanagawa | 10 | 5 | 8 | | 3 | | 8 | 3 | 8 | 11 | 6 | 8 | 4 | 4 | 3 | 4 | 4 | 2 | 10 | 9 | 5 | 1 | 15 | 131 | Kanagawa | |
| Niigata | 2 | | | | 4 | | | 4 | 1 | 3 | 3 | | 2 | 2 | 1 | 2 | 4 | 3 | 1 | 1 | 6 | 4 | 7 | 50 | Niigata | |
| Toyama | | 1 | 1 | | 1 | | | 3 | | 4 | | | 1 | 1 | 2 | | | 1 | 3 | 2 | | 2 | | 22 | Toyama | |
| Ishikawa | 3 | 3 | 2 | | | | 3 | 4 | 3 | 5 | 2 | 1 | 3 | 3 | 3 | 4 | | 2 | 2 | 2 | 3 | 3 | | 51 | Ishikawa | |
| Fukui | | 1 | | | | | 2 | 1 | | 1 | | 1 | | | 1 | | 1 | 1 | | 3 | 3 | | 1 | 16 | Fukui | |
| Yamanashi | 2 | 11 | | | 10 | | 4 | 7 | 4 | 4 | | 2 | 2 | | 4 | 5 | 2 | 1 | | | 1 | 3 | 4 | 66 | Yamanashi | |
| Nagano | | 3 | 3 | | 4 | | 3 | 1 | 1 | | 1 | 3 | | | | 1 | | | 1 | 3 | | 2 | | 26 | Nagano | |
| Gifu | 8 | 6 | 2 | | 2 | | 4 | 1 | 1 | 1 | | | 2 | 1 | 1 | | 2 | | 2 | 2 | 3 | 1 | 7 | 46 | Gifu | |
| Shizuoka | 3 | 2 | 8 | | 6 | | 4 | 6 | 9 | 2 | 4 | 6 | 3 | 7 | 1 | 4 | 7 | 10 | 10 | 6 | 2 | 6 | 4 | 110 | Shizuoka | |
| Aichi | 6 | 6 | 10 | | 4 | | 7 | 6 | 8 | 8 | 4 | 2 | 4 | 5 | 5 | 3 | 3 | 4 | 8 | 7 | 5 | 9 | 9 | 123 | Aichi | |
| Mie | 4 | 7 | 4 | | 5 | | 4 | 7 | 1 | 7 | | 1 | 5 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | | 3 | 3 | 65 | Mie | |
| Shiga | 2 | 5 | 2 | | 2 | | 1 | 1 | 2 | 4 | | | 1 | 1 | | 1 | 2 | 1 | | | 1 | 1 | 1 | 28 | Shiga | |
| Kyoto | 7 | 7 | 5 | | 8 | | 5 | 5 | 3 | 6 | 6 | 3 | | 5 | 2 | | 3 | 5 | 3 | 4 | 1 | 4 | 1 | 83 | Kyoto | |

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| Osaka | 4 | 2 | 1 | | 8 | | 10 | 13 | 3 | 8 | 6 | 8 | 7 | 5 | 5 | 8 | 6 | 4 | 4 | 3 | 7 | 7 | 3 | 122 | Osaka |
| Hyogo | 5 | 8 | 10 | | 4 | | 8 | 4 | 1 | 6 | 4 | 4 | 6 | 10 | 5 | 5 | 9 | 8 | 3 | 5 | 2 | 3 | 3 | 113 | Hyogo |
| Nara | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | Nara |
| Wakayama | 1 | | 2 | | | | 1 | | | | | 1 | | | | | 1 | 1 | | | | | | 7 | Wakayama |
| Tottori | 1 | 3 | | | 1 | | | 1 | | | | | 1 | | | 1 | 1 | | 1 | | | 1 | 1 | 12 | Tottori |
| Shimane | | | | | | | | | | 1 | 3 | 1 | 1 | 1 | | | | | | | | | | 7 | Shimane |
| Okayama | | 1 | | | 1 | | 3 | 2 | 1 | 1 | 1 | | 3 | 2 | 1 | 1 | 2 | | 1 | | 1 | 3 | | 24 | Okayama |
| Hiroshima | 2 | 3 | | | 5 | | 3 | 3 | 7 | 2 | 4 | 4 | 5 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 7 | 5 | 2 | 78 | Hiroshima |
| Yamaguchi | | 1 | | | 1 | | | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | 6 | | 1 | | 1 | 28 | Yamaguchi |
| Tokushima | | 2 | | | 1 | | 2 | | 1 | | | | | | | | 2 | | | | | | | 8 | Tokushima |
| Kagawa | 3 | 2 | 1 | | 2 | | | | 1 | 1 | | | | | 1 | 1 | 3 | 3 | | | 1 | 5 | 1 | 25 | Kagawa |
| Ehime | 2 | 2 | 1 | | | | 1 | | 3 | 2 | | 2 | | | 3 | 4 | | | 2 | 1 | 3 | 1 | 4 | 31 | Ehime |
| Kochi | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 | Kochi |
| Fukuoka | 2 | 7 | 10 | | 6 | | 8 | 6 | 7 | 10 | 3 | 2 | 5 | 8 | 7 | 9 | 8 | 8 | 8 | 10 | 11 | 14 | 6 | 155 | Fukuoka |
| Saga | 1 | | | | 1 | | 2 | 1 | | 1 | | 1 | 1 | 2 | 1 | | 1 | 2 | 2 | 1 | 1 | 2 | | 20 | Saga |
| Nagasaki | 1 | 1 | 3 | | | | 2 | 2 | 5 | 4 | 2 | 3 | 2 | | 1 | 1 | | 2 | 1 | 1 | 4 | 3 | 3 | 41 | Nagasaki |
| Kumamoto | 1 | 1 | | | 1 | | 1 | | | 1 | | 2 | 2 | 2 | 1 | | | 3 | | | | 2 | | 17 | Kumamoto |
| Oita | | | | | 1 | | 1 | | 1 | 1 | 1 | | 1 | | | 1 | 1 | | | | | | | 8 | Oita |
| Miyazaki | | 1 | | | 2 | | | | | | 1 | 1 | 1 | 1 | | | 1 | | | | | | 1 | 9 | Miyazaki |
| Kagoshima | 1 | 1 | 3 | | 1 | | 1 | | | | | | | | | | | | | | 1 | | 1 | 9 | Kagoshima |
| Okinawa | 1 | | 1 | | | | 1 | 1 | 3 | | | | | 3 | 1 | | | | 1 | | 1 | | 1 | 14 | Okinawa |
| total | 99 | 124 | 100 | | 104 | | 113 | 118 | 102 | 117 | 77 | 84 | 90 | 101 | 83 | 92 | 93 | 89 | 91 | 87 | 83 | 104 | 100 | 2,051 | total |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|---|--|--|--|--|--|---|--|--|--|--|--|--|---|--|--|--|--|--|--|---|---|-------------------------------|---------------------------|
| pressure vessel | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | pressure vessel | |
| other pressure vessels | | | | | | | | | | | | | | | | | | | | | | | | other pressure vessels | |
| chemical facilities | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | chemical facilities |
| gas welding equipment | | | | | | | | | | | | | | | | | | | | | | | | gas welding equipment | |
| arc welding equipment | | | | | | | | | | | | | | | | | | | | | | | | arc welding equipment | |
| other welding equipment | | | | | | | | | | | | | | | | | | | | | | | | other welding equipment | |
| kiln, caldron | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | kiln, caldron |
| industrial dryer | | | | | | | | | | | | | | | | | | | | | | | | industrial dryer | |
| other kiln, caldron | | | | | | | | | | | | | | | | | | | | | | | | other kiln, caldron | |
| transmission | | 1 | | | | | | | | | | | | | | | | | | | | | 1 | 2 | transmission |
| electric power facilities | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | electric power facilities |
| other electrical equipment | | | | | | | | | | | | | | | | | | | | | | | | other electrical equipment | |
| human power cranes | | | | | | | | | | | | | | | | | | | | | | | | human power cranes | |
| human power hauling equipment | | | | | | | | | | | | | | | | | | | | | | | | human power hauling equipment | |
| human power machine | | | | | | | | | | | | | | | | | | | | | | | | human power machine | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|---|--|--|--|--|--|---|--|--|--|--|--|--|--|--|---|---|
| hand tool | | | | | | | | | | | | | | | | | | | | | | | | | hand tool |
| ladder | | | | | | | | | | | | | | | | | | | | | | | | | ladder |
| slinging tool | | | | | | | | | | | | | | | | | | | | | | | | | slinging tool |
| other tools | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | other tools |
| other equipment, facilities | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | other equipment, facilities |
| scaffolding | | | | | | | | | | | | | | | | | | | | | | | | | scaffolding |
| timbering | | | | | | | | | | | | | | | | | | | | | | | | | timbering |
| stairs, landing stage | | | | | | | | | | | | | | | | | | | | | | | | | stairs, landing stage |
| opening | | | | | | | | | | | | | | | | | | | | | | | | | opening |
| roof, beam, haze, crossbeam, principal rafter | | | | | | | | | | | | | | | | | | | | | | | | | roof, beam, haze, crossbeam, principal rafter |
| working platform, boot board | | | | | | | | | | | | | | | | | | | | | | | | | working platform, boot board |
| passage | | | | | | | | | | | | | | | | | | | | | | | | | passage |
| building, establishment | | | | | | | | | | | | | | | | | | | | | | | | | building, establishment |
| other temporary buildings, establishments | | | | | | | | | | | | | | | | | | | | | | | | | other temporary buildings, establishments |
| explosive substance | | | | | | | | | | | | | | | | | | | | | | | | | explosive substance |
| inflammable substance | | | | | | | | | | | | | | | | | | | | | | | | | inflammable substance |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|--|---|--|--|---|---|---|---|--|--|--|---|--|---|---|---|--|--|---|---|----|-------|-----------------|
| no causal agent | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | no causal agent |
| unclassifiable | | | | | | | | | | | | | | | | | | | | | | | | | | unclassifiable |
| total | 1 | 4 | 1 | | 1 | | | 2 | 1 | 2 | 1 | | | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 19 | total | |

Workers age of fatal accidents in heavy electrical equipment in 1999-2021

| Age | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Age |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------------------|
| 19 years old or less | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 19 years old or less |
| 20-29 | | 1 | | | 1 | | | | | 1 | | | | | | | | | | | | | | 3 | 20-29 |
| 30-39 | | 1 | | | | | | 1 | | | | | | | | | | | | | | | | 2 | 30-39 |
| 40-49 | | 1 | 1 | | | | | | 1 | | | | | | 1 | | 1 | | 1 | | | | 1 | 7 | 40-49 |
| 50-59 | | 1 | | | | | | 1 | | 1 | | | | | | | | 1 | | | | | | 4 | 50-59 |
| 60 years old or more | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | 2 | 60 years old or more |
| total | 1 | 4 | 1 | | 1 | | | 2 | 1 | 2 | 1 | | | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 19 | total |

Workers' number of workplace of fatal accidents in heavy electrical equipment in 1999-2021

| 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 | total | Workers scale |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------------------|
| 9 workers or less | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 | 9 workers or less |
| 10-29 | | 2 | | | | | | | | | | | | | | | | | 1 | | | | | 3 | 10-29 |
| 30-49 | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 30-49 |
| 50-99 | | | | | | | | 1 | | | | | | | | | | 1 | | | | | | 2 | 50-99 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|--|---|--|--|--|---|---|---|---|--|--|--|---|--|---|---|---|--|--|---|---|---------|---------------------|
| 100-299 | | | | | 1 | | | | | | 1 | | | | | | | | | | | | | 2 | 100-299 | |
| 300 workers or more | | 2 | 1 | | | | | | 1 | 1 | 1 | | | | | 1 | | 1 | | | | | | 1 | 9 | 300 workers or more |
| total | 1 | 4 | 1 | | 1 | | | | 2 | 1 | 2 | 1 | | | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 19 | total |

Month of fatal accidents in heavy electrical equipment in 1999-2021

| Month | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Month | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-----------|
| January | | 1 | | | | | | | 1 | | | | | | 1 | | | | | | | | | | 3 | January |
| February | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | February |
| March | | 1 | | | | | | | | | | | | | | | | 1 | | | | 1 | | | 3 | March |
| April | | | | | | | | | | | | | | | | | | | | | | | | | | April |
| May | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | May |
| June | | | | | | | | | | | | | | | | | | | | | | | | | | June |
| July | 1 | | | | | | | | | 1 | | | | | | | | | | | | | | | 2 | July |
| August | | | | | | | | | | | 1 | | | | | | | | 1 | | | | | 1 | 3 | August |
| September | | | | | | | | | | | | | | | | | | | | | | | | | | September |
| October | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | 2 | October |
| November | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | 2 | November |
| December | | | | | | | | 1 | | | | | | | | | 1 | | | | | | | | 2 | December |
| total | 1 | 4 | 1 | | 1 | | | 2 | 1 | 2 | 1 | | | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 19 | total | |

Prefecture of fatal accidents in heavy electrical equipment in 1999-2021

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|--|---|--|---|---|---|---|--|--|--|---|--|---|---|---|--|--|--|--|---|---|----|----------|-----------|
| Miyazaki | | | | | | | | | | | | | | | | | | | | | | | | | | Miyazaki | |
| Kagoshima | | | | | | | | | | | | | | | | | | | | | | | | | | | Kagoshima |
| Okinawa | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | Okinawa | |
| total | 1 | 4 | 1 | | 1 | | 2 | 1 | 2 | 1 | | | | 1 | | 1 | 1 | 1 | | | | | 1 | 1 | 19 | total | |

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

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html