Fatal and non-fatal accidents in petroleum mining in Japan in 1999-2022

petroleum mining industry Code No.020302

Type of accidents in petroleum mining 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										4
falling to same level	1										1				2			1							5
crash																									
struck by flying or falling object																									
collapse														1											1
crashed by																									
caught in/between		1							2	1		1	1												6
cut																									
injury to the sole of the foot																									
drown																									
contact to high/low-										1															1

temperature																			
contact to harmful																			
substance																			
electric shock																			
explosion																			
burst																		1	1
fire																			
traffic accident				1															1
(public road)																			
traffic accident																			
(others)																			
reaction to																			
motion/improper										1									1
motion	<u> </u>																		
others																			
unclassifiable																			
total	2	1	1	1		1	2	2	1	2	1	1	3		1			1	20

Causal agents (large) of fatal and non-fatal accidents in petroleum mining 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									1				1		1										3

crane, conveying				1									1						2
other equipment		1				1		1										1	4
temporary buildings, establishments	2		1						1	2			1		1				8
substance, material							1	1				1							3
load																			
environment																			
others																			
total	2	1	1	1		1	2	2	1	2	1	1	3		1			1	20

Causal agents (middle) of fatal and non-fatal accidents in petroleum mining 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													1												1
mechanism																									
woodworking																									
machine																									

construction machine										1					1
metal															╫
manufacturing															
machine															
general machine						1									1
mobile silviculture															
crane															
conveying															T
machine										1					1
vehicle			1												1
pressure vessel															
chemical facilities															
welding equipment															
kiln, caldron															T
electric equipment	1	ı													1
human power machine, tools							1								1
tools					1									1	2

other equipments,																			
facilities																			
temporary																			
buildings,	2		1						1	2			1		1				8
establishments																			
hazards, harmful								1											1
substances								1											
materials							1					1							2
load																			
natural																			
environment																			
other causal agent																			
no causal agent																			
unclassifiable																			
total	2	1	1	1		1	2	2	1	2	1	1	3		1			1	20

Causal agents (small) of fatal and non-fatal accidents in petroleum mining 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													1												1
mechanism													1												

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												

demolition machine												
vehicle for high lift												
work												
other construction							1					1
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				1								1
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								1					1
forklift													
railway equipment													
conveyor													
loader													
straddle carrier													
rough terrain hauler													
other powered													
conveying machines													
cars, bus,													
motorcycle													
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												
electric power												
facilities												
other electrical												
equipment												
human power												
cranes												
human power												

hauling equipment																
human power machine						1										1
hand tool																
ladder				1												1
slinging tool																
other tools															1	1
other equipment,																
scaffolding																
timbering																
stairs, landing stage		1					1									2
opening																
roof, beam, haze, crossbeam, principal rafter																
working platform, boot board																
passage										1		1				2
building, establishment								1								1

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

water																			
abnormal																			
environment																			
high/cold																			
temperature																			
environment																			
other environments																			
other causal agent																			
no causal agent																			
unclassifiable																			
total	2	1	1	1		1	2	2	1	2	1	1	3		1			1	20

Workers age of fatal and non-fatal accidents in petroleum mining 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										1															1
20-29		1							1	1			1												4
30-39	1										1	1			2			1					1		7
40-49												1													1
50-59	1			1			1		1						1										5
60 years old or			1											1											2

more																				l
total	2	1	1	1		1	2	2	1	2	1	1	3		1			1	20	

Workers' number of workplace of fatal and non-fatal accidents in petroleum mining 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
10-29									2	1		1		1	2										7
30-49	1		1	1			1																		4
50-99										1					1										2
100-299	1	1									1	1	1										1		6
300 workers or																									
more																									
total	2	1	1	1			1		2	2	1	2	1	1	3			1					1		20

Month of fatal and non-fatal accidents in petroleum mining 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						1										3
February	1														1										2
March																									
April												1													1

														\sqsubseteq	\sqsubseteq	\sqsubseteq				
May								1				1								2
June		1								1										2
July	1					1			1		1					1				5
August																				
September																			1	1
October																				
November								1					1							2
December				1			1													2
total	2	1	1	1		1	2	2	1	2	1	1	3			1			1	20

Prefecture of fatal and non-fatal accidents in petroleum mining 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												1			1										2
Aomori																									
lwate																									
Miyagi																									
Akita									1																1
Yamagata																									
Fukushima																									
Ibaraki																									

			!	!	 		 								 	 	 	
Tochigi																		
Gunma																		
Saitama																		
Chiba						1			1		1	1					1	5
Tokyo	1	1																2
Kanagawa																		
Niigata	1		1				1	2		1			2					8
Toyama																		
Ishikawa																		
Fukui																		
Yamanashi																		
Nagano																		
Gifu																		
Shizuoka																		
Aichi																		
Mie																		
Shiga																		
Kyoto																		
Osaka																		
Hyogo																		

Nara																			
Wakayama																			
Tottori																			
Shimane																			
Okayama																			
Hiroshima																			
Yamaguchi																			
Tokushima															1				1
Kagawa																			
Ehime																			
Kochi																			
Fukuoka																			
Saga																			
Nagasaki																			
Kumamoto																			
Oita																			
Miyazaki																			
Kagoshima																			
Okinawa																			
total	2	1	1	1		1	2	2	1	2	1	1	3		1			1	20

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)

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html

Fatal accidents in petroleum mining in Japan in 1999-2022

petroleum mining industry Code No.020302

Type of fatal accidents in petroleum mining 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																									
falling to same																									
level																									
crash																									
struck by flying or																									
falling object																									
collapse																									
crashed by																									

caught in/between													
cut													
injury to the sole													
of the foot	_		_										
drown													
contact to													
high/low-													
temperature													
contact to harmful													
substance													
electric shock													
explosion													
burst													
fire													
traffic accident													
(public road)													
traffic accident													
(others)													
reaction to													
motion/improper													
motion													
others													

unclassifiable													
total													

Causal agents (large) of fatal accidents in petroleum mining 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																									
other equipment																									
temporary																									
buildings,																									
establishments																									
substance,																									
material																									
load																									
environment																									
others																									
total																									

Causal agents (middle) of fatal accidents in petroleum mining 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	tota
engine																									
power																									
transmission																									
mechanism																									
woodworking																									
machine																									
construction																									
machine																									
metal																									
manufacturing																									
machine																									
general machine																									
mobile silviculture																									
machine																									
crane																									
conveying																									
machine																									
vehicle																									
pressure vessel																									
chemical facilities																									
welding																									

equipment									
kiln, caldron									
electric equipment									
human power									
machine, tools									
tools									
other equipments,									
facilities									
temporary									
buildings,									
establishments									
hazards, harmful									
substances									
materials									
load									
natural									
environment									
other causal agent									
no causal agent									
unclassifiable									
total									

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													
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													

				L	\Box	\Box			\Box	\Box					
electric power															
other electrical															
human power cranes															
human power hauling equipment															
human power machine															
hand tool															
ladder															
slinging tool															
other tools															
other equipment,															
scaffolding															
timbering															
stairs, landing stage															
opening															
roof, beam, haze,															

crossbeam,												
principal rafter												
working platform,												
boot board												
passage												
building,												
establishment												
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													
machine/equipment													
as load													
natural ground,													
rock													
standing tree													
water													
abnormal													
environment													
high/cold													
temperature													
environment													
other environments													
other causal agent													
no causal agent													
unclassifiable													
total													

Workers age of fatal accidents in petroleum mining in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011		2013		2015	ZUID		2018	171119	2020	2021	2022	total
-9-																									

19 years old or less												
20-29												
30-39												
40-49												
50-59												
60 years old or												
more												
total												

Workers' number of workplace of fatal accidents in petroleum mining 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																									
10-29																									
30-49																									
50-99																									
100-299																									
300 workers or																									
more																									
total																									

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																									
February																									
March																									
April																									
May																									
June																									
July																									
August																									
September																									
October																									
November																									
December																									
total																									

Prefecture of fatal accidents in petroleum mining 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													
lwate													
Miyagi													
Akita													
Yamagata													
Fukushima													
Ibaraki													
Tochigi													
Gunma													
Saitama													
Chiba													
Tokyo													
Kanagawa													
Niigata													
Toyama													
Ishikawa													
Fukui													
Yamanashi													
Nagano													
Gifu													
Shizuoka													

Aichi												
Mie												
Shiga												
Kyoto												
Osaka												
Hyogo												
Nara												
Wakayama												
Tottori												
Shimane												
Okayama												
Hiroshima												
Yamaguchi												
Tokushima												
Kagawa												
Ehime												
Kochi												
Fukuoka												
Saga												
Nagasaki												

Kumamoto													
Oita													
Miyazaki													
Kagoshima													
Okinawa													
total													

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

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html