

# Current Status of Nuclear Power Plants in Japan

as of March 14, 2019, JAIF

		Plant Name	Reactor Type	Output MWe	Commercial Operation	Age	Current Status	Review on Conformity to the New Regulatory Requirements			Note
								Application by operator	Official approval by NRA	Restart of commercial operation	
OP	JAPC	TOKAI-2	BWR	1100	1978	40	Outage (2011.03.11~)	2014.05.20	2018.09.26		NRA approved a beyond 40-year operating license for Tokai-2 on November 7, 2018. Work on safety measures will be completed in March 2021.
		TSURUGA-2	PWR	1160	1987	32	Outage (2011.05.07~)	2015.11.05			
	Hokkaido EPC	TOMARI-1	PWR	579	1989	29	Outage (2011.04.22~)	2013.07.08			
		TOMARI-2	PWR	579	1991	27	Outage (2011.08.26~)	2013.07.08			
		TOMARI-3	PWR	912	2009	9	Outage (2012.05.05~)	2013.07.08			
	Tohoku EPC	ONAGAWA-2	BWR	825	1995	23	Outage (2010.11.06~)	2013.12.27			
		ONAGAWA-3	BWR	825	2002	17	Outage (2011.03.11~)				
		HIGASHIDORI-1	BWR	1100	2005	13	Outage (2011.02.06~)	2014.06.10			
	TEPCO	FUKUSHIMA Daini-1	BWR	1100	1982	36	Outage (2011.03.11~)				On June 14, 2018, TEPCO President informed the governor of Fukushima that TEPCO is working towards a decision to decommission all four units at Fukushima Daini.
		FUKUSHIMA Daini-2	BWR	1100	1984	35	Outage (2011.03.11~)				
		FUKUSHIMA Daini-3	BWR	1100	1985	33	Outage (2011.03.11~)				
		FUKUSHIMA Daini-4	BWR	1100	1987	31	Outage (2011.03.11~)				
		KASHIWAZAKI KARIWA-1	BWR	1100	1985	33	Outage (2011.08.06~)				
		KASHIWAZAKI KARIWA-2	BWR	1100	1990	28	Outage (2007.07.05~)				
		KASHIWAZAKI KARIWA-3	BWR	1100	1993	25	Outage (2007.07.16~)				
		KASHIWAZAKI KARIWA-4	BWR	1100	1994	24	Outage (2007.07.16~)				
		KASHIWAZAKI KARIWA-5	BWR	1100	1990	28	Outage (2012.01.25~)				
		KASHIWAZAKI KARIWA-6	ABWR	1356	1996	22	Outage (2012.03.26~)	2013.09.27	2017.12.27		
	Chubu EPC	HAMAOKA-3	BWR	1100	1987	31	Outage (2010.11.29~)	2015.06.16			
		HAMAOKA-4	BWR	1137	1993	25	Outage (2011.05.13~)	2014.02.14			
		HAMAOKA-5	ABWR	1380	2005	14	Outage (2011.05.14~)				
	Hokuriku EPC	SHIKA-1	BWR	540	1993	25	Outage (2011.03.01~)				
		SHIKA-2	ABWR	1358	2006	12	Outage (2011.03.11~)	2014.08.12			
	Kansai EPC	MIHAMA-3	PWR	826	1976	42	Outage (2011.05.14~)	2015.03.17	2016.10.05		NRA approved a beyond 40-year operating license for Mihama-3 on November 16, 2016. Work on safety measures will be completed in July 2020.
		TAKAHAMA-1	PWR	826	1974	44	Outage (2011.01.10~)	2015.03.17	2016.04.20		NRA approved a beyond 40-year operating license for Takahama-1 & -2 on June 20, 2016. Work on safety measures will be completed in May 2020 and January 2021 respectively.
		TAKAHAMA-2	PWR	826	1975	43	Outage (2011.11.25~)	2015.03.17	2016.04.20		
		TAKAHAMA-3	PWR	870	1985	34	Operable	2013.07.08	2015.02.12	2016.02.26	Takahama-3 shut on August 3, 2018 for a periodic inspection. It started up on November 7, resumed power generation on November 9, and started commercial operation on December 7, 2018.
		TAKAHAMA-4	PWR	870	1985	33	Operable	2013.07.08	2015.02.12	2017.06.16	Takahama-4 shut on May 18, 2018 for a periodic inspection. It started up on August 31, resumed power generation on September 3, and started commercial operation on September 28, 2018.
		OHI-3	PWR	1180	1991	27	Operable	2013.07.08	2017.05.24	2018.04.10	
		OHI-4	PWR	1180	1993	26	Outage (2013.09.15~)	2013.07.08	2017.05.24	2018.06.05	
	Chugoku EPC	SHIMANE-2	BWR	820	1989	30	Outage (2012.01.27~)	2013.12.25			
	Shikoku EPC	IKATA-3	PWR	890	1994	24	Operable	2013.07.08	2015.07.15	2016.09.07	Hiroshima High Court decided to cancel a provisional injunction on September 25, 2018. Ikata-3 restarted on October 27, resumed power generation on October 30, and started commercial operation on November 28, 2018.
	Kyushu EPC	GENKAI-2	PWR	559	1981	37	Outage (2011.01.29~)				Kyushu EPC decided the decommissioning of Genkai-2 on February 13, 2019.
GENKAI-3		PWR	1180	1994	24	Outage (2010.12.11~)	2013.07.12	2017.01.18	2018.05.16		
GENKAI-4		PWR	1180	1997	21	Outage (2011.12.25~)	2013.07.12	2017.01.18	2018.07.19		
SENDAI-1		PWR	890	1984	34	Operable	2013.07.08	2014.09.10	2015.09.10		
SENDAI-2		PWR	890	1985	33	Operable	2013.07.08	2014.09.10	2015.11.17	Sendai-2 shut on April 23, 2018 for a periodic inspection. It started up on August 29, resumed power generation on August 31, and started commercial operation on September 28, 2018.	
Total	38 units		38,042				25 units	15 units	9 units		

《Restart of shutdown NPPs》

- NRA (established on 2012.09.19) reviews the following applications by operators in conformity with new regulatory requirements (standards) which came into effect on 2013.07.08.
  - Changes in reactor installment license (After preliminary approval, a month of public comment will be normally conducted for official permission)/Plan for construction works (Construction Permit Application)/Operational safety programs (Technical Specification)
- In addition to the NRA approval of the above applications, inspections before & after reactor start-up (Pre-Operational Inspection) are required before resuming commercial operation. Consent of local governments is also required for restart (but is not legally binding).
- Takahama-3 & -4, Ikata-3 and Genkai-3 were cleared by the regulators (NRA) based on the assumption of using MOX fuel.

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								Application by operator	Preliminary approval by NRA	Official approval by NRA	
UC	J-power	OHMA	ABWR	1383	TBD	—	Under Construction	2014.12.16			Resumed construction on October 1, 2012.
	TEPCO	HIGASHIDORI-1	ABWR	1385	TBD	—	Under Construction				Stopped construction after March 11, 2011.
	Chugoku EPC	SHIMANE-3	ABWR	1373	TBD	—	Under Construction	2018.08.10			
	Total	3 units		4,141				2 unit			

- On May 22, 2018, Chugoku EPC requested local governments for their consent on applying to the NRA for the reactor installment license (i.e. official safety approval) of Shimane-3. The governor of Shimane Prefecture gave his consent on the application on August 9, 2018, following consents of Matsue city and Shimane Prefectural Assembly in July 2018. Chugoku EPC formally applied to the NRA for the reactor installment license of Shimane-3 on August 10, 2018.
- On June 29, 2018, TEPCO announced that it will start a geological survey comprehensively for the Higashidori nuclear power plant in Aomori Prefecture from the second half of the FY 2018 to the FY 2020. TEPCO started a geological survey at the site of Higashidori on August 28, 2018.

	Owner	Plant Name	Reactor Type	Output MWe	Operation ended or Permanent shut down	Note
CD	JAEA	JPDR	BWR	12	1976.03.18	Decommissioning completed on April 31, 1996.
		FUGEN	ATR	165	2003.03.29	Decommissioning started on February 12, 2008, and to be completed in FY 2033.
	JAPC	TOKAI	GCR	166	1998.03.31	Decommissioning started in 2001, and to be completed in FY 2025.
	Chubu EPC	HAMAOKA-1	BWR	540	2009.01.30	Decommissioning started on November 18, 2009, and to be completed in FY 2036.
		HAMAOKA-2	BWR	840	2009.01.30	
	TEPCO	FUKUSHIMA Daiichi-1	BWR	460	2012.04.19	(Decommissioning to be completed in 30-40 years later.)
		FUKUSHIMA Daiichi-2	BWR	784	2012.04.19	
		FUKUSHIMA Daiichi-3	BWR	784	2012.04.19	
		FUKUSHIMA Daiichi-4	BWR	784	2012.04.19	
		FUKUSHIMA Daiichi-5	BWR	784	2014.01.31	
		FUKUSHIMA Daiichi-6	BWR	1100	2014.01.31	
	JAPC	TSURUGA-1	BWR	357	2015.04.27	Decommissioning to be completed in FY 2039.
	Kansai EPC	MIHAMA-1	PWR	340	2015.04.27	Decommissioning to be completed in FY 2045.
		MIHAMA-2	PWR	500	2015.04.27	
	Kyushu EPC	GENKAI-1	PWR	559	2015.04.27	Decommissioning to be completed in FY 2043.
	Chugoku EPC	SHIMANE-1	BWR	460	2015.04.30	Decommissioning to be completed in FY 2045.
	Shikoku EPC	IKATA-1	PWR	566	2016.05.10	Decommissioning to be completed in FY 2056.
	JAEA	MONJU	FBR	280	2017.12.06*	Decommissioning to be completed in FY 2047.
	Kansai EPC	OHI-1	PWR	1175	2018.03.01	
		OHI-2	PWR	1175	2018.03.01	
Shikoku EPC	IKATA-2	PWR	566	2018.05.23		
Tohoku EPC	Onagawa-1	BWR	524	2018.12.21		
		22 units		12,921		*Date of Application for Decommissioning Plan Approval.

OP: In operation UC: Under construction CD: Closed down In general, Decommissioning means "Dismantlement" in Japan.

Based on public information released by each electric power company and Nuclear Regulation Authority (NRA)