Current Status of Nuclear Power Plants in Japan

as of March 14, 2024, JAIF

	Owner	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	1,100	1978	45	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 including the installation of specialized safety facility (SSF) will be completed in September 2024.
		TSURUGA-2	PWR	1,160	1987	37	Outage（2011.05.07～）	2015.11.05			
	Hokkaido EPC	TOMARI-1	PWR	579	1989	34	Outage（2011.04.22～）	2013.07.08			
		TOMARI-2	PWR	579	1991	32	Outage（2011.08.26～）	2013.07.08			
		TOMARI-3	PWR	912	2009	14	Outage（2012.05.05～）	2013.07.08			
	Tohoku EPC	ONAGAWA-2	BWR	825	1995	28	Outage（2010.11.06～）	2013.12.27	2020.02.26		Work on safety measures will be completed in June 2024. Onagawa-2 is scheduled to resume power generation in September 2024.
		ONAGAWA-3	BWR	825	2002	22	Outage（2011.03.11～）				
		HIGASHIDORI-1	BWR	1,100	2005	18	Outage（2011.02.06～）	2014.06.10			
	TEPCO	KASHIWAZAKI KARIWA-1	BWR	1,100	1985	38	Outage（2011.08.06～）				
		KASHIWAZAKI KARIWA-2	BWR	1,100	1990	33	Outage（2007.07.05～）				
		KASHIWAZAKI KARIWA-3	BWR	1,100	1993	30	Outage（2007.07.16～）				
		KASHIWAZAKI KARIWA-4	BWR	1,100	1994	29	Outage（2007.07.16～）				
		KASHIWAZAKI KARIWA-5	BWR	1,100	1990	33	Outage（2012.01.25～）				
		KASHIWAZAKI KARIWA-6	ABWR	1,356	1996	27	Outage（2012.03.26～）	2013.09.27	2017.12.27		
		KASHIWAZAKI KARIWA-7	ABWR	1,356	1997	26	Outage（2011.08.23～）	2013.09.27	2017.12.27		The ending date of work on safety measures is undecided.
	Chubu EPC	HAMAOKA-3	BWR	1,100	1987	36	Outage（2010.11.29～）	2015.06.16			
		HAMAOKA-4	BWR	1,137	1993	30	Outage（2011.05.13～）	2014.02.14			
		HAMAOKA-5	ABWR	1,380	2005	19	Outage（2011.05.14～）				
	Hokuriku EPC	SHIKA-1	BWR	540	1993	30	Outage（2011.03.01～）				
		SHIKA-2	ABWR	1,358	2006	17	Outage（2011.03.11～）	2014.08.12			
	Kansai EPC	MIHAMA-3	PWR	826	1976	47	Operable	2015.03.17	2016.10.05	2021.07.27	NRA approved a beyond 40-year operating license for Mihama-3 on November 16, 2016. It was shut down on October 25, 2023, for a periodic inspection. It resumed power generation on January 20, 2024, and started commercial operation on February 14, 2024.
		TAKAHAMA-1	PWR	826	1974	49	Operable	2015.03.17	2016.04.20	2023.8.28	NRA approved a beyond 40-year operating license for Takahama-1 & -2 on June 20, 2016. Work on safety measures for Takahama-1 was completed on September 18, 2020. The work on safety measures for Takahama-2 was completed on January 31, 2022. The deadline of installation of SSFs for Takahama-1 & 2 was June 9, 2021. SSF was available on July 14 and August 31, 2023, respectively. Takahama-1 resumed power generation on August 4, 2023, and started commercial operation on August 28, 2023. Takahama-2 resumed power generation on September 20, 2023, and started commercial operation on October 16, 2023.
		TAKAHAMA-2	PWR	826	1975	48	Operable	2015.03.17	2016.04.20	2023.10.16	
		TAKAHAMA-3	PWR	870	1985	39	Operable	2013.07.08	2015.02.12	2016.02.26	Takahama-3 also started a special inspection to prepare for the application of a beyond 40-year operating license on September 22, 2022, and ended on November 17, 2022. Kansai EPC applied to NRA for a beyond 40-year operating license renewal on April 25, 2023. It was shut down on September 18, 2023, for a periodic inspection. It started commercial operation on January 23, 2024.
		TAKAHAMA-4	PWR	870	1985	38	Operable	2013.07.08	2015.02.12	2017.06.16	Kansai EPC applied to NRA for a beyond 40-year operating license renewal on April 25, 2023. Takahama-4 was shut down on December 16, 2023, for a periodic inspection. The damage of SG tube was confirmed on January 22, 2024. The resumption of power generation is to be decided.
		OHI-3	PWR	1,180	1991	32	Operable	2013.07.08	2017.05.24	2018.04.10	Ohi-3 was shut down on August 23, 2022, for a periodic inspection, due to the deadline of the installation of SSF on August 24, 2022. SSF was available on December 8, 2022. Ohi-3 resumed power generation on December 18, 2022, and started commercial operation on January 12, 2023. It was shut down on February 10, 2024, for a periodic inspection. It will start commercial operation on early May.
		OHI-4	PWR	1,180	1993	31	Operable	2013.07.08	2017.05.24	2018.06.05	SSF was available on August 10, 2022. Ohi-4 was shut down on August 31, 2023, for a periodic inspection. It resumed power generation on October 27, 2023, and started commercial operation on November 21, 2023.
	Chugoku EPC	SHIMANE-2	BWR	820	1989	35	Outage（2012.01.27～）	2013.12.25	2021.09.15		Work on safety measures will be completed in May 2024. Shimane-2 will resume power generation in August, 2024.
	Shikoku EPC	IKATA-3	PWR	890	1994	29	Operable	2013.07.08	2015.07.15	2016.09.07	Ikata-3 was shut down on February 23, 2023. It resumed power generation on May 26, 2023, and started commercial operation on June 20, 2023.
	Kyushu EPC	GENKAI-3	PWR	1,180	1994	29	Operable	2013.07.12	2017.01.18	2018.05.16	SSF was available on December 5, 2022. Genkai-3 resumed power generation on December 12, 2022, and started commercial operation on January 10, 2023. It was shut down on November 10, 2023, for a periodic inspection. It resumed power generation on February 2, 2024 and started commercial operation on February 29, 2024.
		GENKAI-4	PWR	1,180	1997	26	Operable	2013.07.12	2017.01.18	2018.07.19	Genkai-4 was shut down on September 12, 2022, for a periodic inspection, due to the deadline of the installation of SSF on September 13, 2022. SSF was available on February 2, 2023. It resumed power generation on February 9, 2023, and started commercial operation on March 8, 2023.
		SENDAI-1	PWR	890	1984	39	Operable	2013.07.08	2014.09.10	2015.09.10	Sendai-1 was shut down on February 16, 2023, for a periodic inspection. It resumed power generation on April 23, 2023, and started commercial operation on May 19, 2023. NRA approved a beyond 40-year operating license for Sendai-1 on November 1, 2023.
		SENDAI-2	PWR	890	1985	38	Operable	2013.07.08	2014.09.10	2015.11.17	Sendai-2 was shut down on May 13, 2023, for a periodic inspection. It resumed power generation on July 18, 2023, and started commercial operation on August 15, 2023. NRA approved a beyond 40-year operating license for Sendai-2 on November 1, 2023.
	Total	33 units		33,083				25 units	17 units	12 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 of draft review report, a month of public consultation 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 granted restart permission by the regulator (NRA) based on the assumption of using MOX fuel.**
- **The new regulatory standard requires the installation of specialized safety facilities within 5 years of approval of the main construction plan. On April 24, 2019, NRA decided on a policy to shut down restarted reactors which do not meet the above requirement.**

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UC	J-power	OHMA	ABWR	1,383	TBD	–	Under Construction	2014.12.16			Resumed construction on October 1, 2012.
	TEPCO	HIGASHIDORI-1	ABWR	1,385	TBD	–	Under Construction				Stopped construction after March 11, 2011.
	Chugoku EPC	SHIMANE-3	ABWR	1,373	TBD	–	Under Construction	2018.08.10			
	Total	3 units		4,141				2 unit			

	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 2040.
	JAPC	TOKAI	GCR	166	1998.03.31	Decommissioning started in 2001, and to be completed in FY 2030.
	Chubu EPC	HAMAOKA-1	BWR	540	2009.01.30	Decommissioning started on November 18, 2009, and to be completed in FY 2042.
		HAMAOKA-2	BWR	840	2009.01.30	Decommissioning started on November 18, 2009, and to be completed in FY 2042.
	TEPCO	FUKUSHIMA Daiichi-1	BWR	460	2012.04.19	(Decommissioning to be completed 30-40 years after the cold shutdown in December 2011.)
		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 -5& -6 are be utilized effectively to decommission Fukushima-Daiichi -1,2,3 & 4.)
		FUKUSHIMA Daiichi-6	BWR	1,100	2014.01.31	(Fukushima-Daiichi -5& -6 are be utilized effectively to decommission Fukushima-Daiichi -1,2,3 & 4.)
	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	Decommissioning to be completed in FY 2045.
	Kyushu EPC	GENKAI-1	PWR	559	2015.04.27	Decommissioning to be completed in FY 2054.
	Chugoku EPC	SHIMANE-1	BWR	460	2015.04.30	Decommissioning to be completed in FY 2049
	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	1,175	2018.03.01	Decommissioning to be completed in FY 2048.
		OHI-2	PWR	1,175	2018.03.01	Decommissioning to be completed in FY 2048.
	Shikoku EPC	IKATA-2	PWR	566	2018.05.23	Decommissioning to be completed in FY 2059.
	Tohoku EPC	ONAGAWA-1	BWR	524	2018.12.21	Decommissioning to be completed in FY 2053.
	Kyushu EPC	GENKAI-2	PWR	559	2019.04.09	Decommissioning to be completed in FY 2054.
	TEPCO	FUKUSHIMA Daini-1	BWR	1,100	2019.09.30	Decommissioning to be completed in FY 2064.
		FUKUSHIMA Daini-2	BWR	1,100	2019.09.30	Decommissioning to be completed in FY 2064.
		FUKUSHIMA Daini-3	BWR	1,100	2019.09.30	Decommissioning to be completed in FY 2064.
		FUKUSHIMA Daini-4	BWR	1,100	2019.09.30	Decommissioning to be completed in FY 2064.
	Total	27 units		17,880		*Date of Application for Decommissioning Plan Approval.

OP: In operation/Operable 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)