

Current Status of Nuclear Power Plants in Japan

as of December 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 | 46 | 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 December 2026. |
| | | TSURUGA-2 | PWR | 1,160 | 1987 | 37 | Outage (2011.05.07~) | 2015.11.05 | Not permitted by NRA (2024.11.13) | | On August 28, 2024, NRA approved a draft of a review report regarding a safety examination of Tsuruga-2, saying the reactor does not meet regulatory standards. |
| | Hokkaido EPC | TOMARI-1 | PWR | 579 | 1989 | 35 | Outage (2011.04.22~) | 2013.07.08 | | | |
| | | TOMARI-2 | PWR | 579 | 1991 | 33 | 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 | 29 | Outage (2010.11.06~) | 2013.12.27 | 2020.02.26 | | Work on safety measures was completed on May 27, 2024. Fuel loading was completed on September 9, 2024. Onagawa-2 resumed power generation on November 15, 2024. It will start commercial operation on December 26, 2024. |
| | | ONAGAWA-3 | BWR | 825 | 2002 | 22 | Outage (2011.03.11~) | | | | |
| | | HIGASHIDORI-1 | BWR | 1,100 | 2005 | 19 | Outage (2011.02.06~) | 2014.06.10 | | | The ending date of work on safety measures is undecided. |
| | TEPCO | KASHIWAZAKI KARIWA-1 | BWR | 1,100 | 1985 | 39 | Outage (2011.08.06~) | | | | |
| | | KASHIWAZAKI KARIWA-2 | BWR | 1,100 | 1990 | 34 | Outage (2007.07.05~) | | | | |
| | | KASHIWAZAKI KARIWA-3 | BWR | 1,100 | 1993 | 31 | Outage (2007.07.16~) | | | | |
| | | KASHIWAZAKI KARIWA-4 | BWR | 1,100 | 1994 | 30 | Outage (2007.07.16~) | | | | |
| | | KASHIWAZAKI KARIWA-5 | BWR | 1,100 | 1990 | 34 | Outage (2012.01.25~) | | | | |
| | | KASHIWAZAKI KARIWA-6 | ABWR | 1,356 | 1996 | 28 | Outage (2012.03.26~) | 2013.09.27 | 2017.12.27 | | |
| | | KASHIWAZAKI KARIWA-7 | ABWR | 1,356 | 1997 | 27 | Outage (2011.08.23~) | 2013.09.27 | 2017.12.27 | | Fuel loading was completed on April 26, 2024. A Series of checks of the soundness of major equipment was carried out by June 12, 2024. The timing for restarting is undecided. |
| | Chubu EPC | HAMAOKA-3 | BWR | 1,100 | 1987 | 37 | Outage (2010.11.29~) | 2015.06.16 | | | |
| | | HAMAOKA-4 | BWR | 1,137 | 1993 | 31 | 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 | 31 | Outage (2011.03.01~) | | | | |
| | | SHIKA-2 | ABWR | 1,358 | 2006 | 18 | Outage (2011.03.11~) | 2014.08.12 | | | |
| Kansai EPC | MIHAMA-3 | PWR | 826 | 1976 | 48 | Operable | 2015.03.17 | 2016.10.05 | 2021.07.27 | Mihama-3 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. It shut down on October 15, 2024, due to reduction in the wall thickness of the seawater system return main pipe of the device used to cool the primary cooling water. It resumed power generation on November 21, 2024. | |
| | TAKAHAMA-1 | PWR | 826 | 1974 | 50 | Operable | 2015.03.17 | 2016.04.20 | 2023.8.28 | 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 was shut down on June 2, 2024, for a periodic inspection. It resumed power generation on August 28, 2024. It started commercial operation on September 24, 2024. Takahama-2 was shut down on November 6, 2024 for a periodic inspection. It is scheduled to start commercial operation in early March 2025. | |
| | TAKAHAMA-2 | PWR | 826 | 1975 | 49 | 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 was shut down on September 18, 2023, for a periodic inspection. It started commercial operation on January 23, 2024. NRA approved a beyond 40-year operating license for Takahama-3 on May 29, 2024. | |
| | TAKAHAMA-4 | PWR | 870 | 1985 | 39 | Operable | 2013.07.08 | 2015.02.12 | 2017.06.16 | Takahama-4 was shut down on December 16, 2023, for a periodic inspection. The damage of SG tube was confirmed on January 22, 2024. It started to resume power generation in April 26. It started commercial operation on May 21, 2024. NRA approved a beyond 40-year operating license for Takahama-4 on May 29, 2024. | |
| | 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 resumed power generation on April 7, 2024 and started commercial operation on May 2, 2024. NRA approved long-term facility management plans for Ohi-3 on June 26, 2024. | |
| | 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. NRA approved long-term facility management plans for Ohi-4 on June 26, 2024. It was shut down on December 14, 2024 for a periodic inspection. It is scheduled to start commercial operation in mid March 2025. | |
| Chugoku EPC | SHIMANE-2 | BWR | 820 | 1989 | 35 | Outage (2012.01.27~) | 2013.12.25 | 2021.09.15 | | Work on safety measures was completed on October 15, 2024. Fuel loading was completed on November 3, 2024. Shimane-2 will resume power generation on December 25, 2024 and start commercial operation on January 10, 2025. | |
| Shikoku EPC | IKATA-3 | PWR | 890 | 1994 | 29 | Operable | 2013.07.08 | 2015.07.15 | 2016.09.07 | Ikata-3 was shut down on July 19, 2024. It resumed power generation on October 18, 2024 and started commercial operation on November 12, 2024. | |
| Kyushu EPC | GENKAI-3 | PWR | 1,180 | 1994 | 30 | 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 | 27 | Operable | 2013.07.12 | 2017.01.18 | 2018.07.19 | SSF was available on February 2, 2023. Genkai-4 was shut down on March 27, 2024, for a periodic inspection. It resumed power generation on June 3, 2024, and started commercial operation in June 28, 2024. | |
| | SENDAI-1 | PWR | 890 | 1984 | 40 | Operable | 2013.07.08 | 2014.09.10 | 2015.09.10 | Sendai-1 was shut down on June 14, 2024, for a periodic inspection. It resumed power generation on August 29, 2024. It started commercial operation on September 25, 2024. NRA approved long-term facility management plans for Sendai-1 on November 29, 2024. | |
| | SENDAI-2 | PWR | 890 | 1985 | 39 | 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. It was shut down on September 14, 2024, for a periodic inspection. It resumed power generation on November 30, 2024. It will start commercial operation on December 25, 2024. NRA approved a beyond 40-year operating license for Sendai-2 on November 1, 2023. NRA approved long-term facility management plans for Sendai-2 on November 29, 2024. | |
| | 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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|----|-------------|---------------|--------------|------------|----------------------|-----|--------------------|---|-----------------------------|--------------------------|--|
| | | | | | | | | Application by operator | Preliminary approval by NRA | Official approval by NRA | |
| | 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 | | | |

| CD | Owner | Plant Name | Reactor Type | Output MWe | Operation ended or Permanent shut down | Note |
|----|-------------|---------------------|--------------|------------|--|--|
| | | | | | | |
| | | 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)