

Nuclear facilities in Germany

Part I: Nuclear Facilities „In Operation“

Table 1 - Nuclear power plants

Table 2 - Research reactors

Table 3 - Nuclear fuel cycle facilities (without interim storage and final repository)

The following abbreviations for the states (Länder) are used in the tables:

BW Baden-Württemberg
 BB Brandenburg
 HE Hesse
 NRW North Rhine-Westphalia
 SN Saxony

BY Bavaria
 HB Bremen
 MV Mecklenburg-Western Pomerania
 RP Rhineland-Palatinate

BE Berlin
 HH Hamburg
 NI Lower Saxony
 SH Schleswig-Holstein

Table 1: Nuclear Power Plants in Operation

No.	Name	Abbrev.	Reactor type	Power MW _e	First criticality	In routine operation since	Operator	Location of site
1	Neckarwestheim-2	GKN 2	PWR	1,400	1988-12-29	1989	EnBW Kernkraft GmbH (EnKK)	Neckarwestheim (BW)
2	Philippsburg-2	KKP 2	PWR	1,468	1984-12-13	1985	EnBW Kernkraft GmbH (EnKK)	Philippsburg (BW)
3	Grafenrheinfeld	KKG	PWR	1,345	1981-12-09	1982	E.ON Kernkraft GmbH	Grafenrheinfeld (BY)
4	Gundremmingen-B	KRB-II-B	BWR	1,344	1984-03-09	1984	Kernkraftwerk Gundremmingen GmbH	Gundremmingen (BY)
5	Gundremmingen-C	KRB-II-C	BWR	1,344	1984-10-26	1985	Kernkraftwerk Gundremmingen GmbH	Gundremmingen (BY)
6	Isar-2	KKI 2	PWR	1,485	1988-01-15	1988	E.ON Kernkraft GmbH	Essenbach (BY)
7	Emsland	KKE	PWR	1,400	1988-04-14	1988	Kernkraftwerk Lippe-Ems GmbH	Lingen (NI)
8	Grohnde	KWG	PWR	1,430	1984-09-01	1985	E.ON Kernkraft GmbH	Grohnde (NI)
9	Brokdorf	KBR	PWR	1,480	1986-10-08	1986	E.ON Kernkraft GmbH	Brokdorf (SH)

Table 2: Research Reactors in Operation

No.	Name	Abbrev.	Reactor type; Power	First criticality	Operator	Location of site
1	Berliner Experimentier-Reaktor II	BER-II	Pool-type / MTR ; 10 MW _{th}	1973-12-09	Hahn-Meitner-Institut	Berlin (BE)
2	SUR Furtwangen	SUR-FW	homogenous (S) / SUR-100 ; 1.0E-07 MW _{th}	1973-06-28	Fachhochschule Furtwangen	Furtwangen (BW)
3	SUR Stuttgart	SUR-S	homogenous (S) / SUR-100 ; 1.0E-07 MW _{th}	1964-08-24 1969-06-12	Universität Stuttgart, Institut für Kernenergetik und Energiesysteme	Stuttgart (BW)
4	SUR Ulm	SUR-U	homogenous (S) / SUR-100 ; 1.0E-07 MW _{th}	1965-12-01	Fachhochschule Ulm, Labor für Strahlenmeßtechnik und Reaktortechnik	Ulm (BW)
5	Hochflussneutronenquelle München/Garching Start of routine operation 25.04.05	FRM-II	Pool-type / compact core with D ₂ O moderation; 20 MW _{th}	2004-03-02	Technische Universität München	Garching (BY)
6	SUR Hannover	SUR-H	homogenous (S) / SUR-100 ; 1.0E-07 MW _{th}	1971-12-09	Universität Hannover Institut für Werkstoffkunde	Hannover (NI)
7	Forschungsreaktor Mainz	FRMZ	Pool-type / TRIGA MARK-II ; 0.1 MW _{th}	1965-08-03	Universität Mainz, Institut für Kernchemie	Mainz (RP)
8	Ausbildungskernreaktor 2004 backfitting of reactor; now AKR-2. First criticality of AKR-2 on 2005-03-22.	AKR / AKR-2	homogenous (S) / SUR-Type ; 2.0E-06 MW _{th}	1978-07-28 2005-03-22	Technische Universität Dresden, Institut für Energietechnik	Dresden (SN)

Table 3: Nuclear Fuel Cycle Facilities in Operation (without interim storage and final repository)

No.	Name	Abbrev.	Begin of Operation	Operator	Annual capacity//Total capacity	Production	Location of site
1	Brennelement-Fertigungsanlage Lingen	ANF	1979-01-19	Advanced Nuclear Fuels GmbH	Conversion, production of pellets and fuel element production up to 650 Mg uranium and with max. enrichment up to 5 %	Production of fuel elements for light water reactors.	Lingen (NI)
2	Pilotkonditionierungsanlage Gorleben	PKA	2000-12-19	Brennelement-lager Gorleben GmbH	35 Mg SM/a; Intermediate storage capacity up to 12 Mg SM/a	Repair of defective casks; Conditioning of radioactive waste for intermediate storage and disposal	Gorleben (NI)
3	Urananreicherungsanlage Gronau	URENCO	1985-08-15	URENCO-Deutschland	Actual annual capacity 2,750 Mg SWU/a. License for the increase up to 4,500 Mg SWU/a was granted on 2005-02-14. Also licensed is the handling up to 7,285 Mg feed, 1,327 Mg product and 76,514 Mg tails. Storage is licensed up to 10,000 Mg feed, 1,250 Mg product (up to 6%) and 97,062 Mg tails	Enrichment of uranium up to 6% U-235 by centrifuge	Gronau (NRW)