



This table lists the 44 countries noted in Annex 2 of the Comprehensive Nuclear Test Ban Treaty (CTBT) who were, in 1996, members of the Conference on Disarmament (CD) that had Nuclear power and/or research reactors and identifies the nuclear facilities that each country possesses.

Country	Nuclear Power Reactors ¹	Research & Test Reactors	Nuclear fuel cycle facilities ²						Nuclear Weapons ¹	Ratified the NPT	Ratified the CTBT
			Uranium Refining & conversion	Enrichment	Fuel Fabrication	Reprocessing	Heavy Water Production	Plutonium Stockpiles			
Algeria		√								Yes	Yes
Argentina	√	√	√	√	√			√		Yes	Yes
Australia		√								Yes	Yes
Austria		√								Yes	Yes
Bangladesh		√								Yes	Yes
Belgium	√	√			√	S ³		√	√	Yes	Yes
Brazil	√	√	√	P ⁴	√	C ⁵				Yes	Yes
Bulgaria	√	√								Yes	Yes
Canada	√	√	√		√					Yes	Yes

¹ This Nuclear Weapons list includes those NATO member states who have US weapons specifically assigned for use by their air force, see the Bulletin of Atomic Scientists Nuclear Notebook at http://www.thebulletin.org/nuclear_weapons_data/

Chile		√								Yes	Yes
China	√	√		√	√			√	√	Yes	No
Colombia		√								Yes	No
DPR Korea	P/S ⁶	√							√	- ⁷	No
DR Congo		√								Yes	Yes
Egypt		√								Yes	No
Finland	√	√								Yes	Yes
France	√	√	√	√	√	√		√	√	Yes	Yes
Germany	√	√		√	√	S ⁸		√	√	Yes	Yes
Hungary	√	√								Yes	Yes
India	√	√	√		√	√	√	√	√	No	No
Indonesia		√								Yes	No
Iran	C/P ⁹	√								Yes	No
Israel ²		√	√	√	√	√		√	√	No	No
Italy	S/C ¹⁰	√			√	√		√	√	Yes	Yes
Japan	√	√	√	√	√	√		√		Yes	Yes
Mexico	√	√			√					Yes	Yes
Netherlands	√	√		√				√	√	Yes	Yes

² Little is known of the Israeli nuclear programme but it has been assumed here that because they do have a nuclear arsenal they must have all of the listed facilities in order to obtain the nuclear material contained in these weapons.

Norway		√								Yes	Yes
Pakistan	√	√		√	√			√	√	No	No
Peru		√								Yes	Yes
Poland	C ¹¹	√								Yes	Yes
Romania	√	√								Yes	Yes
Republic of Korea	√	√	√		√					Yes	Yes
Russia	√	√	√	√	√	√		√	√	Yes	Yes
Slovakia	√									Yes	Yes
South Africa	√	√	√	S ¹²						Yes	Yes
Spain	√	√			√			√		Yes	Yes
Sweden	√	√			√			√		Yes	Yes
Switzerland	√	√						√		Yes	Yes
Turkey	S ¹³	√	√						√	Yes	Yes
Ukraine	√									Yes	Yes
UK	√	√	√	√	√	√		√	√	Yes	Yes
USA	√	√	√	√	√	S ¹⁴	√	√	√	Yes	No
Viet Nam		√								Yes	No

Sources: 2004 World Nuclear Industry Handbook produced by Nuclear Engineering International. www.connectingpower.com
The column on Plutonium Stockpiles is sourced from 'Stockpiles still growing' by David Albright and Kimberly Kramer. Bulletin of Atomic Scientists; Nov/Dec 2004.

Nuclear Facilities in the 44 CTBT Annex 2 countries

The ratification status of the countries are taken from the relevant treaties.

¹ As of end 2003

² These are parts of the nuclear cycle needed for making nuclear weapons:

Uranium Refining and Conversion readies uranium ore for enrichment;

Enrichment increases the concentration of U²³⁵, the form of uranium needed for a nuclear bomb;

Fuel Fabrication is the process that turns the raw plutonium or uranium into a useable form of fuel for nuclear power plants;

Reprocessing involves the 'recycling' of used fuel from nuclear power and other reactors, producing plutonium;

Plutonium stockpile is exactly that;

Heavy water/deuterium production when mixed with tritium can be used to boost the yield of a nuclear warhead.

³ facility permanently shutdown/under decommissioning

⁴ One facility proposed, two suspended or indefinitely deferred

⁵ One facility under construction

⁶ Two under construction; three suspended or indefinitely deferred (inc units that have operated and are now mothballed, units partially constructed and planned units)

⁷ The Democratic Republic of Korea has declared itself in possession of nuclear weapons and has initiated the process of withdrawing from the NPT

⁸ One facility permanently shutdown/under decommissioning

⁹ Two under construction; two proposed.

¹⁰ Four permanently shutdown/under decommissioning; none cancelled

¹¹ Four cancelled.

¹² One facility permanently shutdown/under decommissioning

¹³ Two suspended or indefinitely deferred (inc units that have operated and are now mothballed, units partially constructed and planned units)

¹⁴ Five facilities permanently shutdown/under decommissioning