

SAMPO- Ringhals

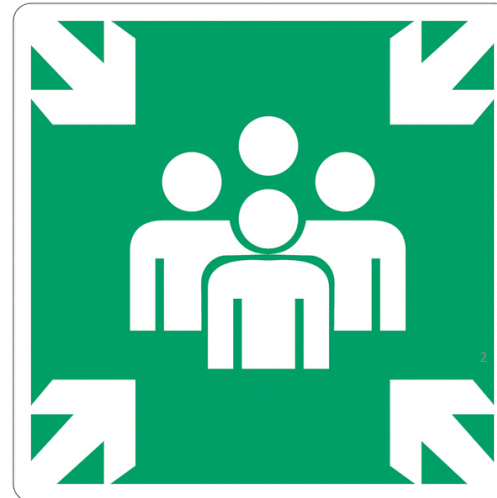
A wide-angle photograph of the Ringhals nuclear power plant in Sweden, taken at dusk. The sky is a mix of soft orange, pink, and grey clouds. The plant's three main containment domes are prominent in the middle ground. In the foreground, a white boat with a red stripe is moving across the calm water, leaving a small wake. The overall scene is serene and industrial.

Sampo 2023

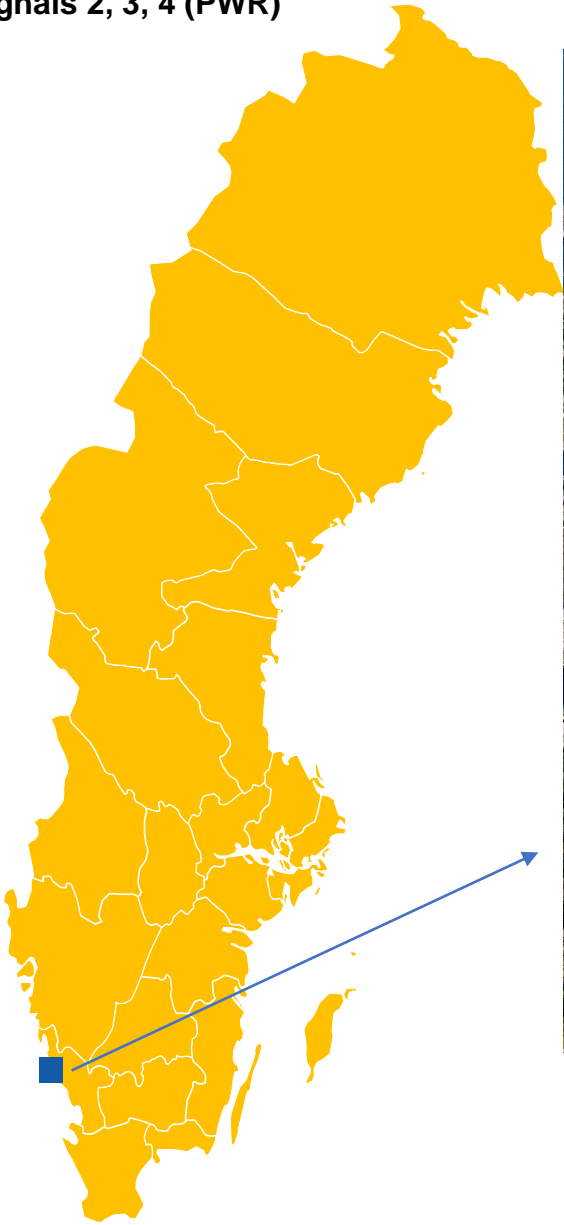
Stjepan Jagunic NUQM

Safety first

Please note where the nearest emergency exits, fire extinguishers, gathering place and defibrillator are located



Ringhals 1 (BWR)
Ringhals 2, 3, 4 (PWR)



- 1 Ringhals 1
- 2 Ringhals 2
- 3 Ringhals 3
- 4 Ringhals 4
- 5 Kylvatteninlopp
- 6 Ställverk
- 7 Bostadsområde
- 8 Besöksparkering
- 9 Infocenter
- 10 Simulatorer
- 11 Utbildning & Konferens
- 12 Parkering



The situation today



Ringhals 1 began to be built in the late 1960s and was commissioned in 1976. The reactor is a Swedish construction of Asea Atom and a boiling water reactor.

Ringhals 1 is permanently closed since 31 December 2020

Installed effect 881 MW



Ringhals 2 (PWR -Westinghouse) began to be built in 1970 and as the first reactor at Ringhals, it was commissioned in 1975. Several projects have been carried out in terms of safety and modernization. The facility's instruments and control equipment were replaced in 2009 with new digital technology, including the control room and simulator. It was the first time in the world that such an exchange was carried out at a nuclear power plant. Ringhals 2 is permanently closed since December 30, 2019
Installed effect 904 MW



Ringhals 3 (PWR-Westinghouse) began to be built in 1972 and was ready for commissioning in 1977.

Due to a series of political decisions, R3 did not start producing electricity until four years later, in 1981. A major project was carried out in 1995 and involved the replacement of three large heat exchangers, steam generators, in the reactor enclosure.

The net output is 1074 MW
Operation to 2041

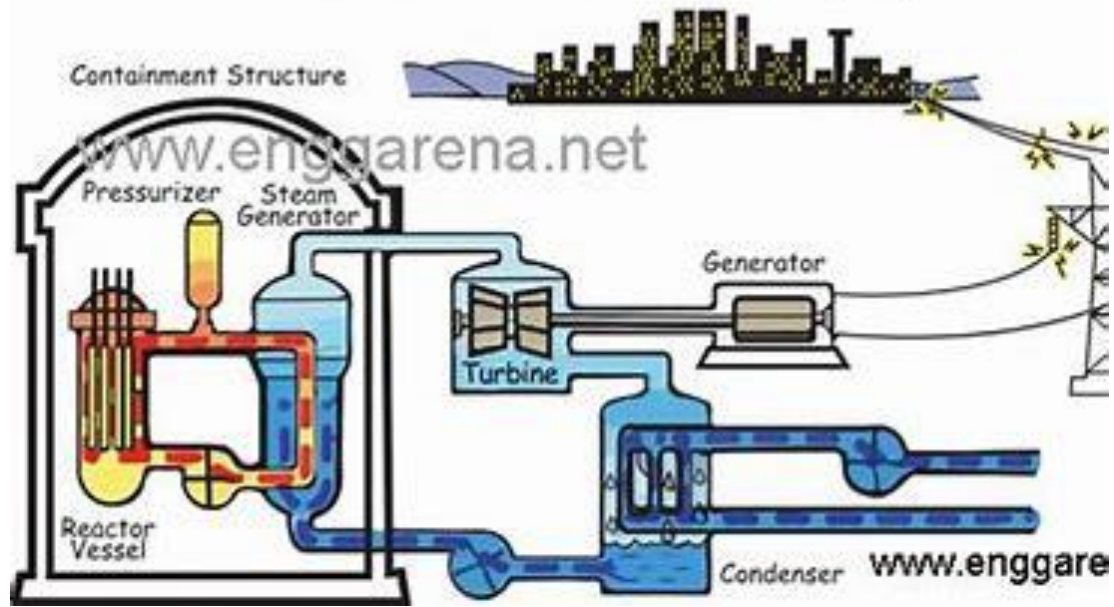
The Ringhals 4 (PWR- Westinghouse) began to be built in 1972 and was put into operation in 1983.

In 2011, the most comprehensive shutdown ever was carried out on R4. In the reactor containment, steam generators and pressure vessels were changed, in the turbine plant major modernizations were made when the protection and control systems of the turbines were changed to new digital technology.

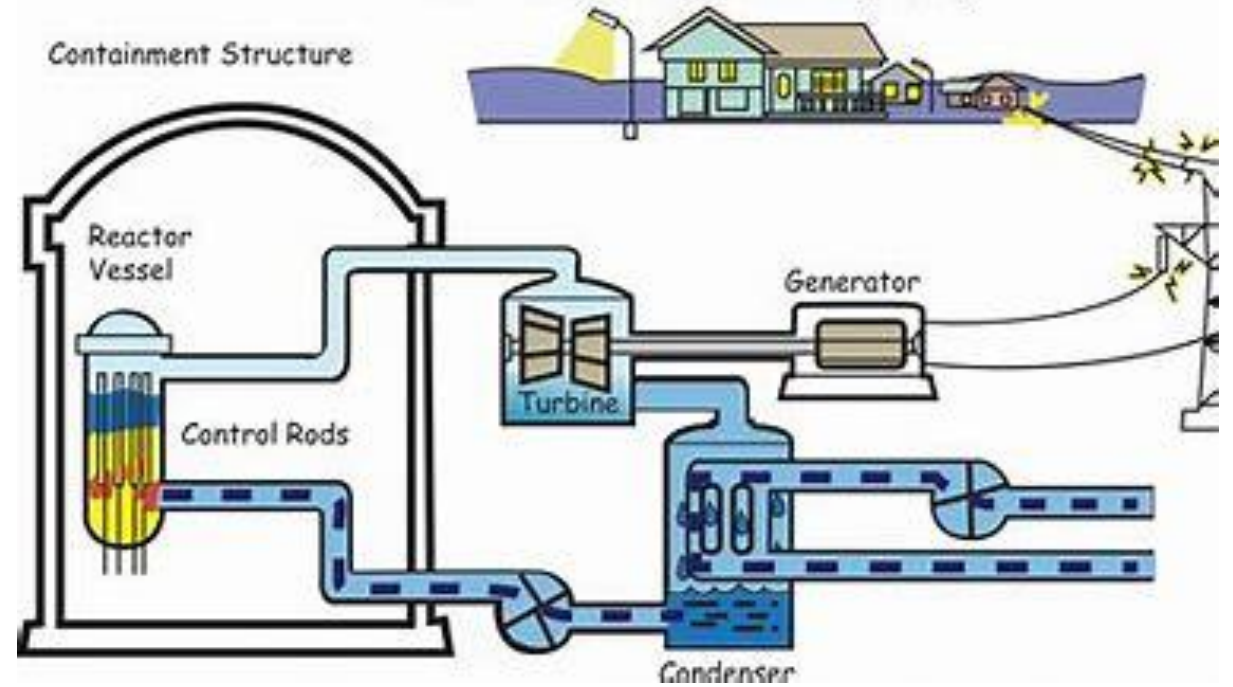
The net output is 1130 MW

The planned operating time is until 2043.

The Pressurized-Water Reactor (PWR)



The Boiling-Water Reactor (BWR)



Welcome to RAB!

I hope we get to experience two pleasant days at RAB.