



**Costs of decommissioning of
the nuclear power plant at
Dodewaard**

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SUMMARY

The nuclear power plant at Dodewaard is a boiling water reactor with natural circulation providing an electric net capacity of 56 MWe.

In 1969, the plant was put into operation. The technical lifetime of the plant is 40 years, but the final shutdown is provided for 2004 /1/.

Upon the final shutdown of the plant, different measures have to be taken with regard to the decommissioning of the nuclear power plant.

From the experiences which have already been gained in Europe in the area of the decommissioning of nuclear facilities, two variants have been derived, for which the following study has been issued with respect to the various decommissioning costs arising.

The costs are calculated as an absolute value and the present value at the time of the decommissioning and at 01.01.1995. The price level for the calculation is 01.01.1995. The calculation results including the post-operational phase and the demolition of conventional parts of the plant are as follows:

Variant	Absolute value in MioNLG	Present Value in MioNLG (Real interest rate 4%)	
		at the date of decommis- sioning (2004)	at the date of calculation (1995)
1. Immediate removal	336,9	294,7	207,0
2. Later removal after a 40-year enclosure period	385,5	164,7	115,7

For taking these activities it has been calculated that the below-mentioned manpower is required from which the indicated to radiation exposure results.

Variant		Manpower in man-years	Collective dose in man-Sv
1.	Immediate removal	874	6,6
2.	Later removal after a 40-year enclosure period	1074	4,6

The following chapters include explanations concerning the cost calculation and detailed results.

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