



ISOE INFORMATION SHEET

**PRELIMINARY EUROPEAN
DOSIMETRIC RESULTS
FOR 2001**

ISOE European Technical Centre - CEPN Information Sheet No. 31

This ISOE Information Sheet presents the European average collective doses per reactor in each country over the past three years (1999-2001) for operating PWRs and BWRs respectively in Tables 1 and 2.

The European PWR average collective dose per reactor continues to decrease reaching the lowest value, 0.8 man·Sv per reactor (the number of outages being quite stable in all countries, see Table 3).

The evolution is quite similar for BWRs for which one can notice that the average collective dose is now very closed to PWR one.

It can also be observed that only Germany for BWRs and France for PWRs have had an average collective dose greater than 1 man·Sv per reactor in 2001.

As far as the VVER reactors are concerned, the average for Slovakia includes two more units from the Mochovce NPP in 2001.

The following Figures show VVER, PWR (VVER excluded) and BWR three-years rolling average collective dose trend per reactor by country from 1991 to 2001.

Table 1. PWRs average collective dose per reactor by country from 1999 to 2001

Country	Average coll. dose per reactor (man·Sv)		
	1999	2000	2001
Belgium	0.40	0.35	0.56
France	1.17	1.09	1.02
Germany	1.23	1.13	0.89
Netherlands	0.30	0.56	0.52
Spain	0.71	0.59	0.43
Sweden	0.43	0.43	0.35
Switzerland	0.77	0.69	0.48
United Kingdom	0.66	0.46	0.19
Sub-Total	1.03	0.95	0.87
Czech Republic	0.28	0.25	0.29
Finland	0.68	1.13	0.56
Hungary	0.53	0.76	0.63
Slovakia	0.59	0.81	0.37
VVER Sub-Total	0.50	0.68	0.44
All PWRs	0.96	0.91	0.80

Table 2. BWRs average collective dose per reactor by country from 1999 to 2001

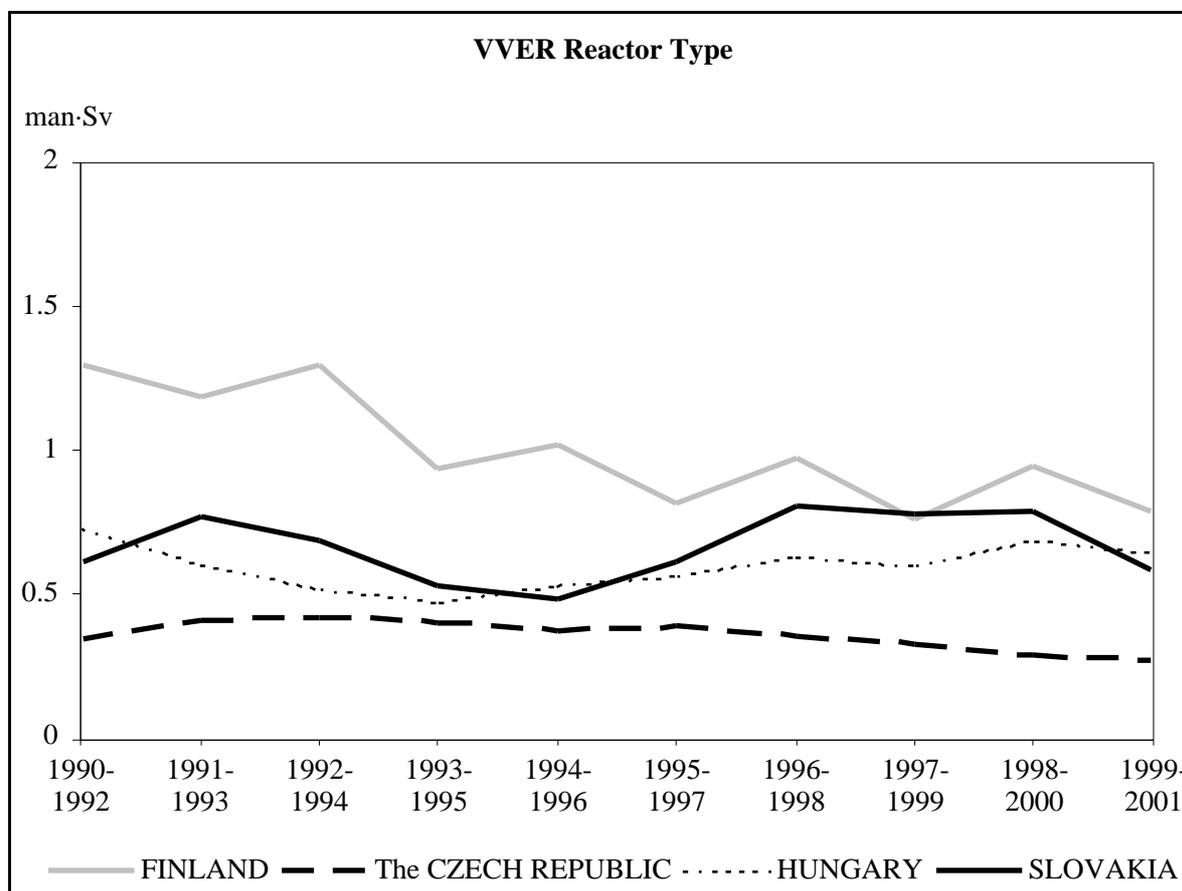
Country	Average coll. dose per reactor (man·Sv)		
	1999	2000	2001
Finland	0.47	0.86	0.59
Germany	0.81	0.88	1.06
Spain	2.45	1.52	0.93
Sweden	1.12	0.85	0.71
Switzerland	1.10	0.89	0.97
All BWRs	1.09	0.93	0.85

Table 3. Number of outages versus number of operating PWR and BWR reactors from 1999 to 2001

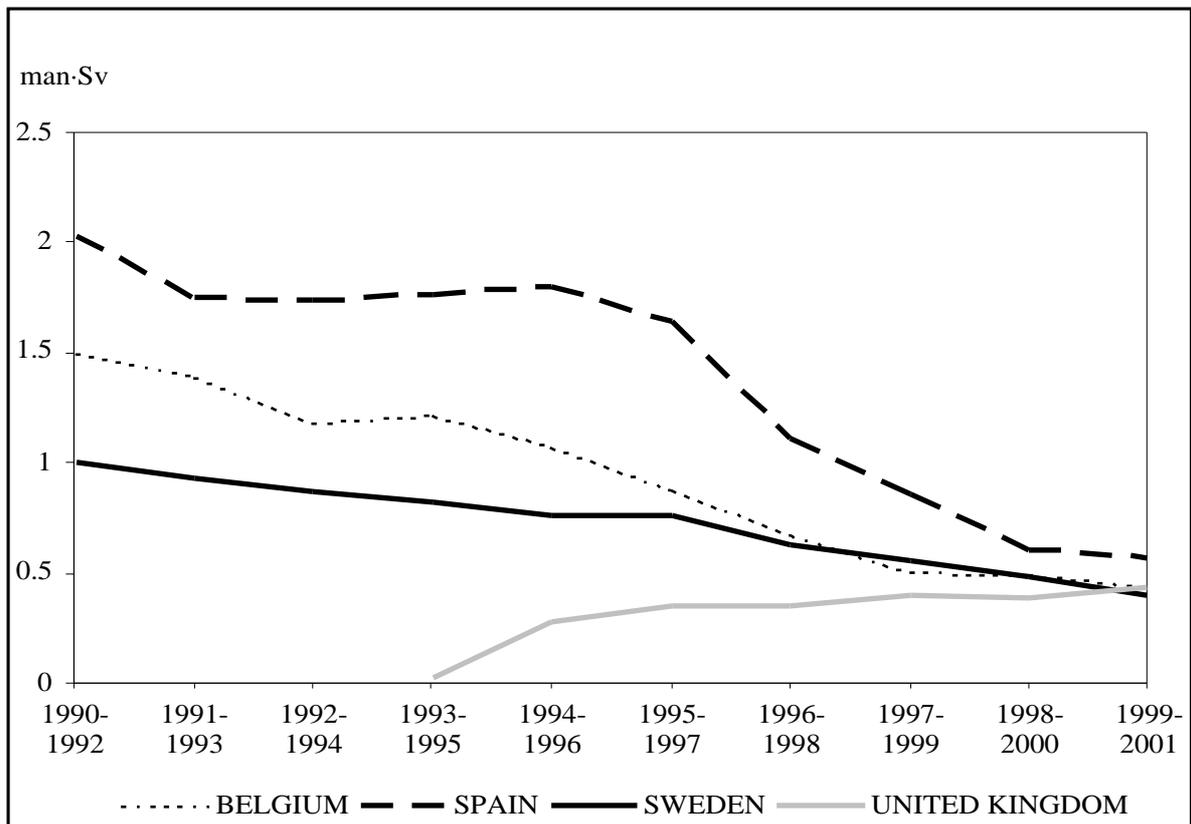
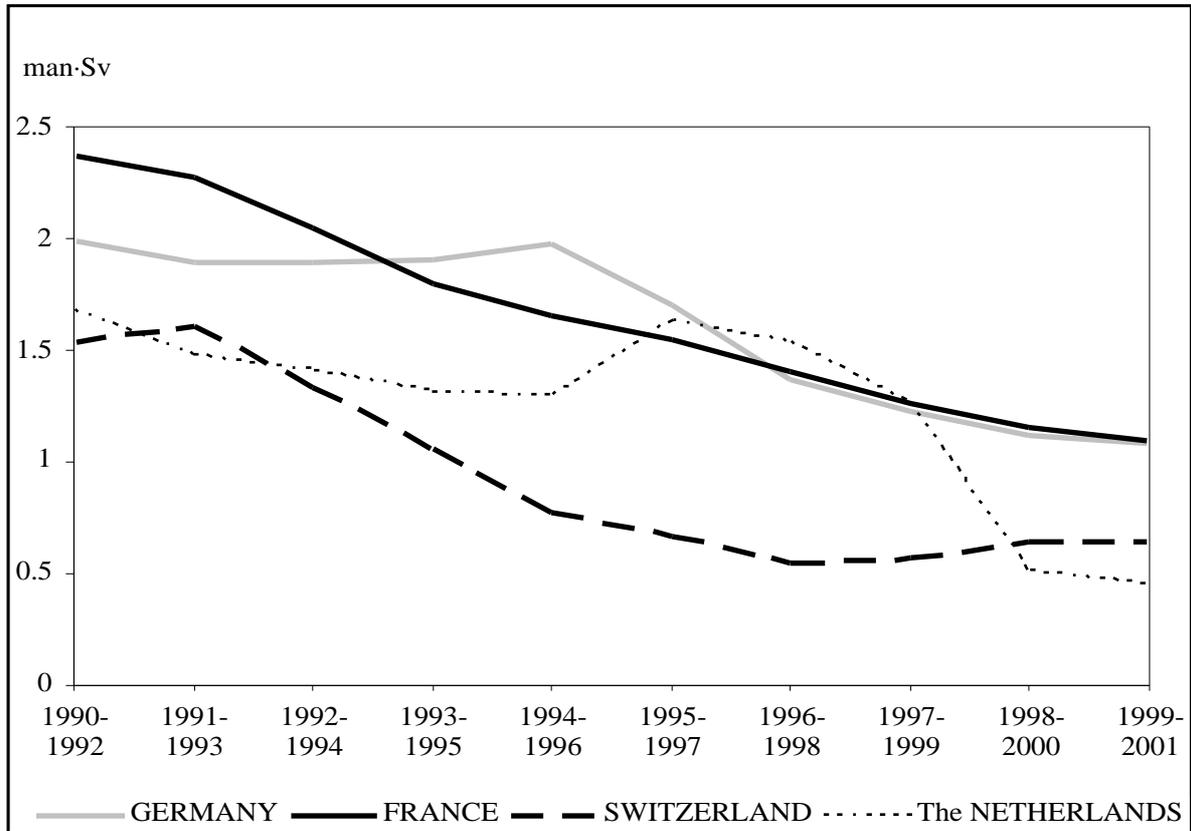
Country	Number of outages / Number of reactors		
	1999	2000	2001
PWR:			
Belgium	5/7	6/7	7/7
France	50/54	46/54	50/56
Germany	13/14	14/14	14/14
Netherlands	1/1	1/1	1/1
Spain	5/7	6/7	5/7
Sweden	3/3	3/3	3/3
Switzerland	3/3	3/3	3/3
United Kingdom	1/1	1/1	0/1
BWR:			
Finland	2/2	2/2	2/2
Germany	4/6	4/6	6/6
Spain	2/2	1/2	1/2
Sweden	9/9	8/8	7/8
Switzerland	2/2	2/2	2/2

Note: All VVER reactors have had outages every year.

Evolution of the PWRs 3-Years Rolling Average Collective Dose per Reactor by Country



Evolution of the PWRs 3-Years Rolling Average Collective Dose per Reactor by Country



**Evolution of the BWRs 3-Years Rolling Average Collective Dose per Reactor
by Country**

