



General Distribution

June 2000

ISOE INFORMATION SHEET

PRELIMINARY EUROPEAN DOSIMETRIC RESULTS FOR 1999

ISOE European Technical Centre - CEPN Information Sheet No. 23

This ISOE Information Sheet presents the European average collective doses per reactor in each country over the past three years (1997-1999) for operating PWRs and BWRs respectively in Tables 1 and 2.

The European PWR average collective dose remains quite stable since 1998 with a dosimetric result lower than 1 man· Sv per reactor. The low average collective dose in Sweden (3 units) can be pointed out considering that all the reactors have had a refueling outage in 1999 and are not from the newest generation of reactors. As far as the VVERs reactors are concerned, the average collective dose remains around 0.5-0.6 man· Sv per unit.

The European BWR average collective continues to decrease, being nearly reduced by a factor two since two years.

The following Figures show VVER, PWR (VVER excluded) and BWR annual average collective

dose trend per reactor by country from 1989 to 1999.

Table 1. PWRs average collective dose per reactor by country from 1997 to 1999

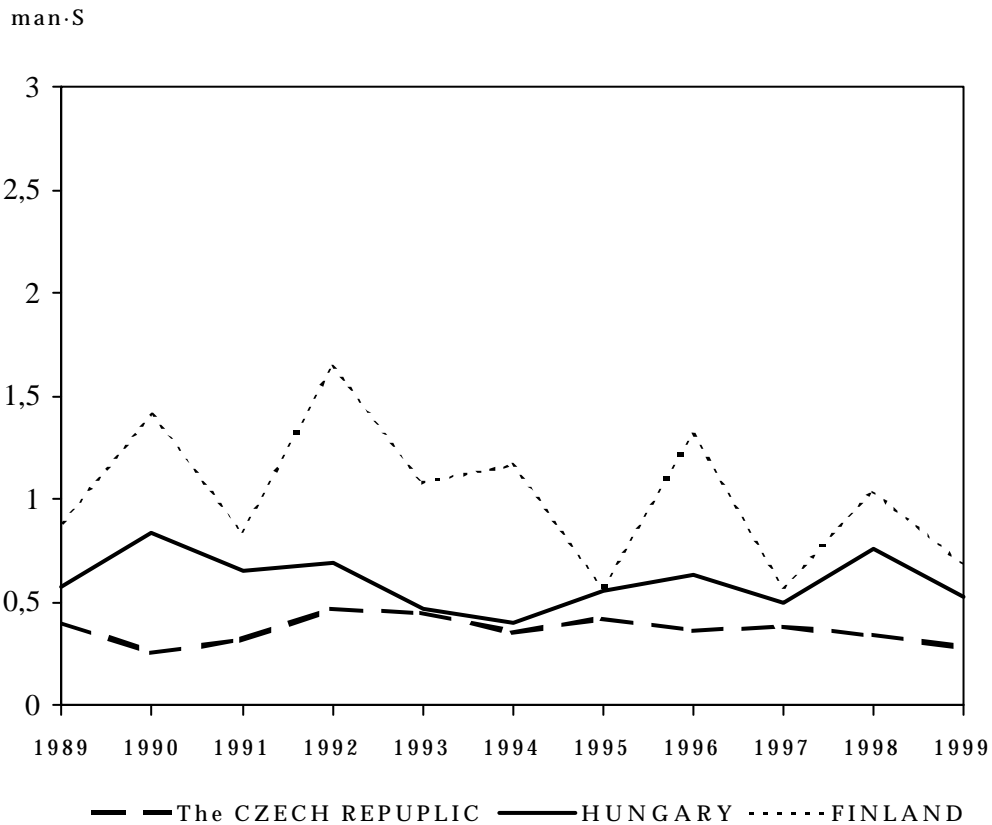
Country	Average coll. dose per reactor (man· Sv)		
	1997	1998	1999
Belgium	0.39	0.71	0.40
France	1.42	1.20	1.17
Germany	1.43	1.01	1.23
Netherlands	2.83	0.68	0.31
Spain	1.35	0.55	0.71
Switzerland	0.48	0.46	0.77
Sweden	0.64	0.59	0.44
United Kingdom	0.50	0.04	0.66
Sub-Total	1.28	1.02	1.03
Czech Republic	0.38	0.34	0.28
Finland	0.57	1.04	0.68
Hungary	0.49	0.76	0.53
VVER Sub-Total	0.46	0.65	0.46
All PWRs	1.20	0.99	0.97

Table 2. BWRs average collective dose per reactor by country from 1997 to 1999

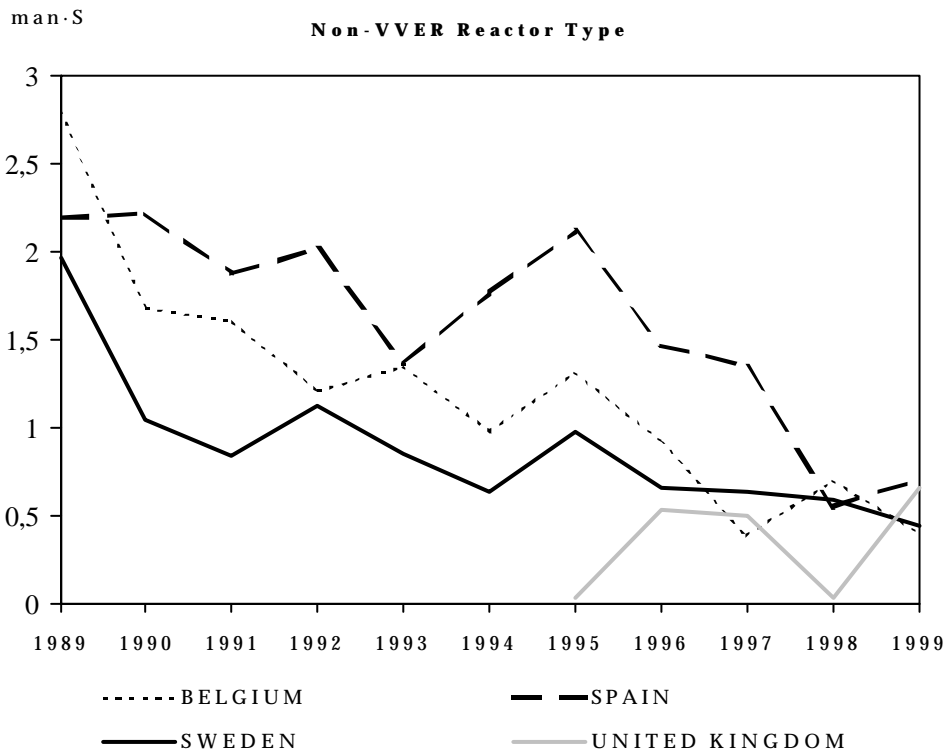
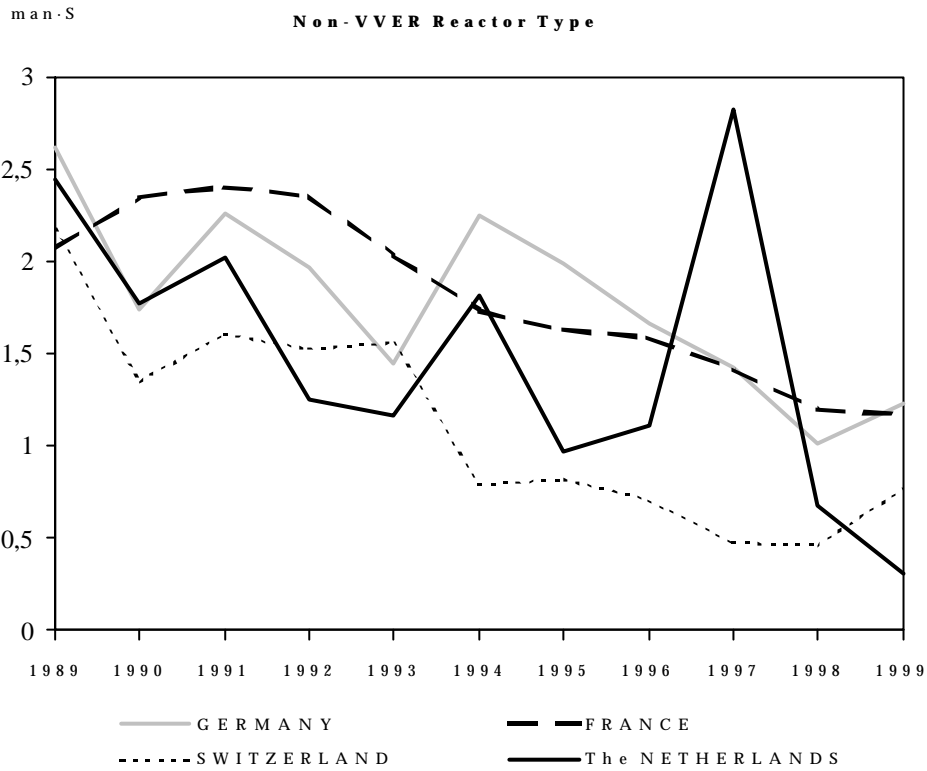
Country	Average coll. dose per reactor (man·Sv)		
	1997	1998	1999
Finland	0.83	1.03	0.47
Germany	1.33	1.56	0.81
Netherlands	0.11	-	-
Spain	2.39	0.53	2.45
Sweden	2.82	1.55	1.12
Switzerland	1.45	1.19	1.10
All BWRs	1.95	1.37	1.09

Evolution of PWRs Average Collective Dose per Reactor by Country (1989-1999)

VVER Reactor Type



**Evolution of PWRs Average Collective Dose per Reactor
by Country
(1998-1999)**



**Evolution of BWRs Average Collective Dose per Reactor
by Country
(1989-1999)**

