



November, 2017

ISOE INFORMATION SHEET

JAPANESE DOSIMETRIC RESULTS: FY 2016 DATA AND TRENDS

ISOE Asian Technical Center – NSRA Information Sheet No. 45

This ISOE information sheet presents the occupational exposure data for Fiscal Year (FY) 2016 and trends of commercial reactors in Japan from FY 1997 to FY 2016, which include PWRs, BWRs and a GCR*.

* GCR; Tokai NPP (ceased commercial operation in March 31, 1998)

Table 1. Total collective dose in FY 2015 and FY 2016

Reactor Type	Total Collective Dose (man.Sv)	
	FY 2015	FY 2016
PWRs	4.50	3.84
BWRs	83.16	49.65
Total (LWRs)	87.66	53.50

Table 2. Average collective dose per reactor in FY 2015 and FY 2016

Reactor Type	Average Collective Dose (man.Sv)	
	FY 2015	FY 2016
PWRs	0.18	0.16
BWRs	2.59	1.55
Total (LWRs)	1.56	0.95

Tables 1 and 2 show the total collective dose and the average collective dose per reactor for PWRs, BWRs and LWRs in FY 2015 and FY 2016.

Some NPPs located in the east area of Japan were damaged by the huge earthquake and tsunami on March 11, 2011. Large dose for BWRs in FY 2011 was due to the accident of Fukushima Daiichi NPPs. Only 3 PWRs operated in FY 2015 and FY 2016.

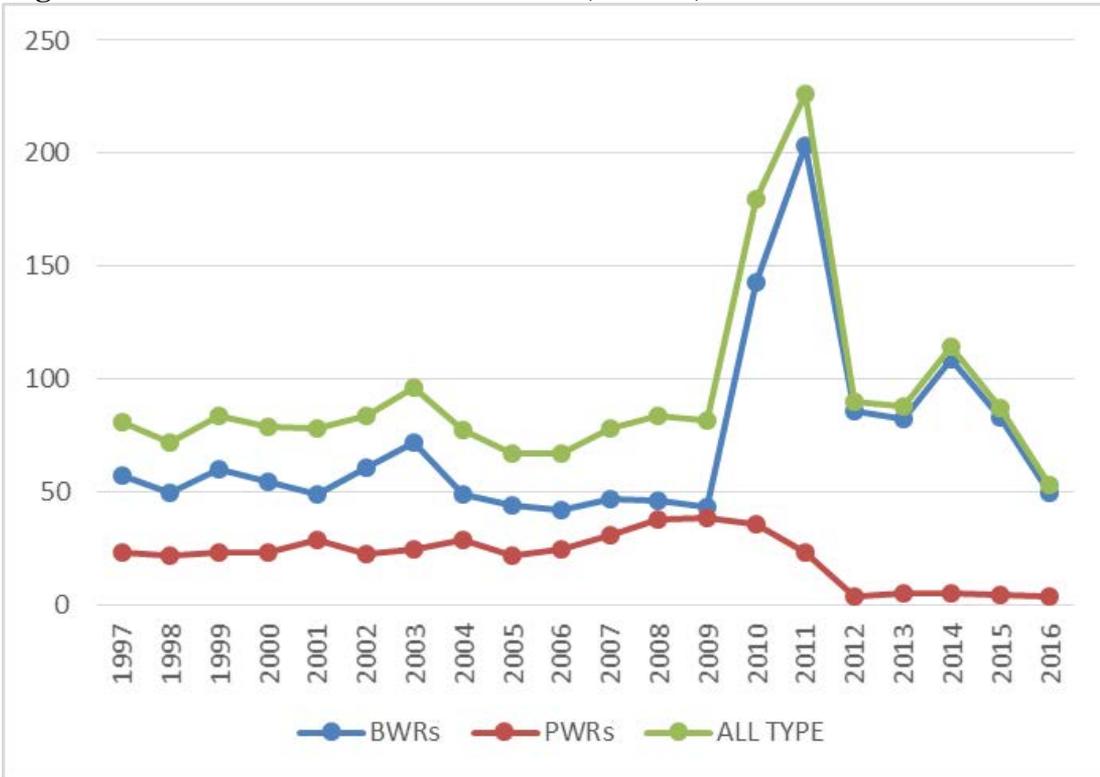
Figures 1 to 5 show the trends of the total collective dose and the average individual dose etc. from FY 1997 to FY 2016 in Japan.

Please note that these figures include 14 reactors which are in permanent shut down (10 BWRs, 3 PWRs, and 1 LWCHWR are already permanently shut down).

Exposure data in figures 1 to 5 are based on “Status of Radioactive Waste Management and Occupational Radiation Exposure Management at Nuclear Facilities” whose data has been compiled by Nuclear Regulation Authority or NRA.

<http://www.nsra.or.jp/isoe/english/regionalinfo/japan.html>

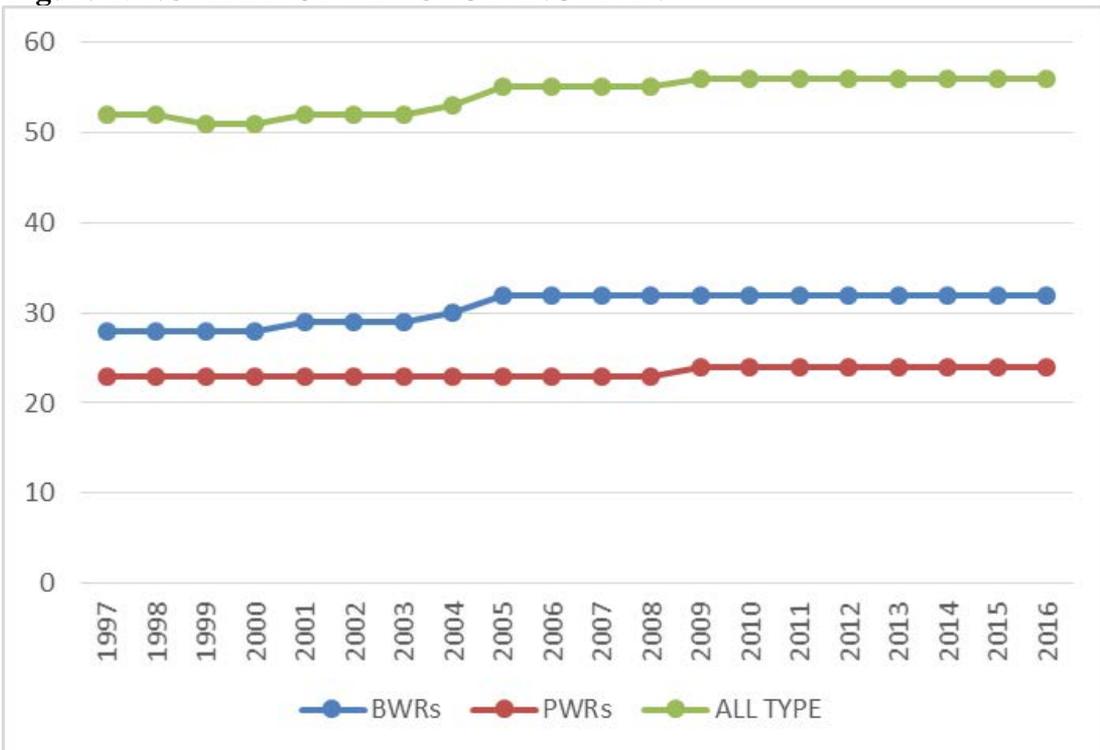
Figure 1: TOTAL COLLECTIVE DOSE (man.Sv)



* GCR is included until FY1998.

** This figure includes 13 reactors which are permanently shut down.

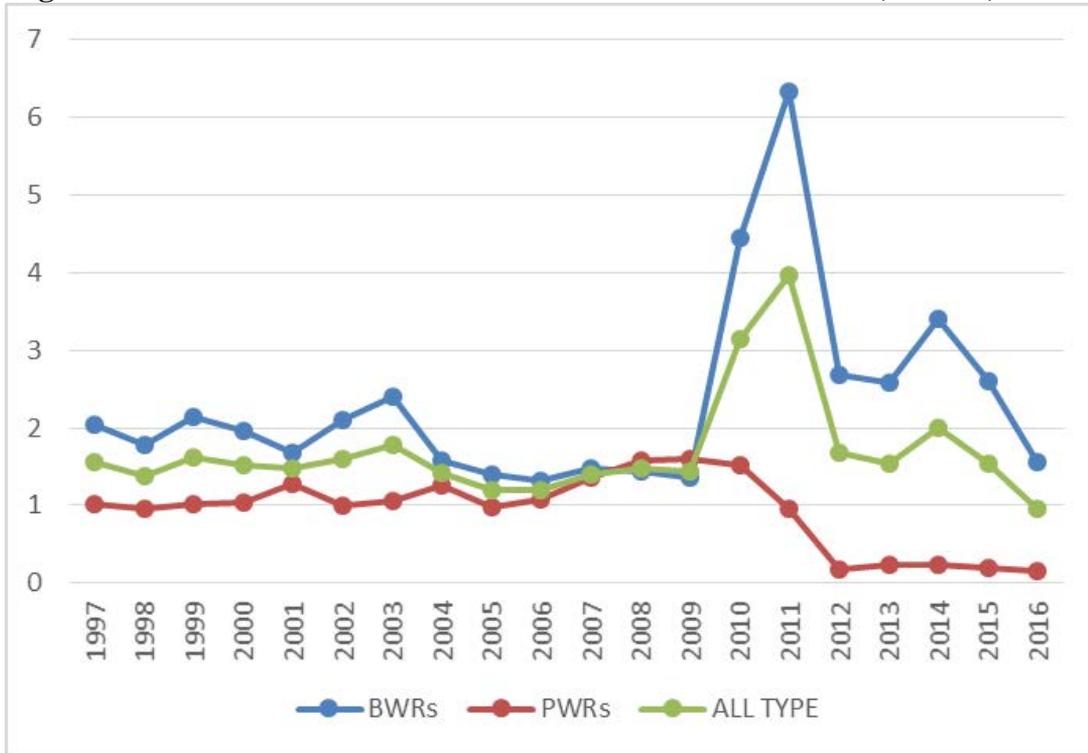
Figure 2: NUMBER OF REACTOR IN JAPAN



* GCR is included until FY1998.

** This figure includes 13 reactors which are permanently shut down.

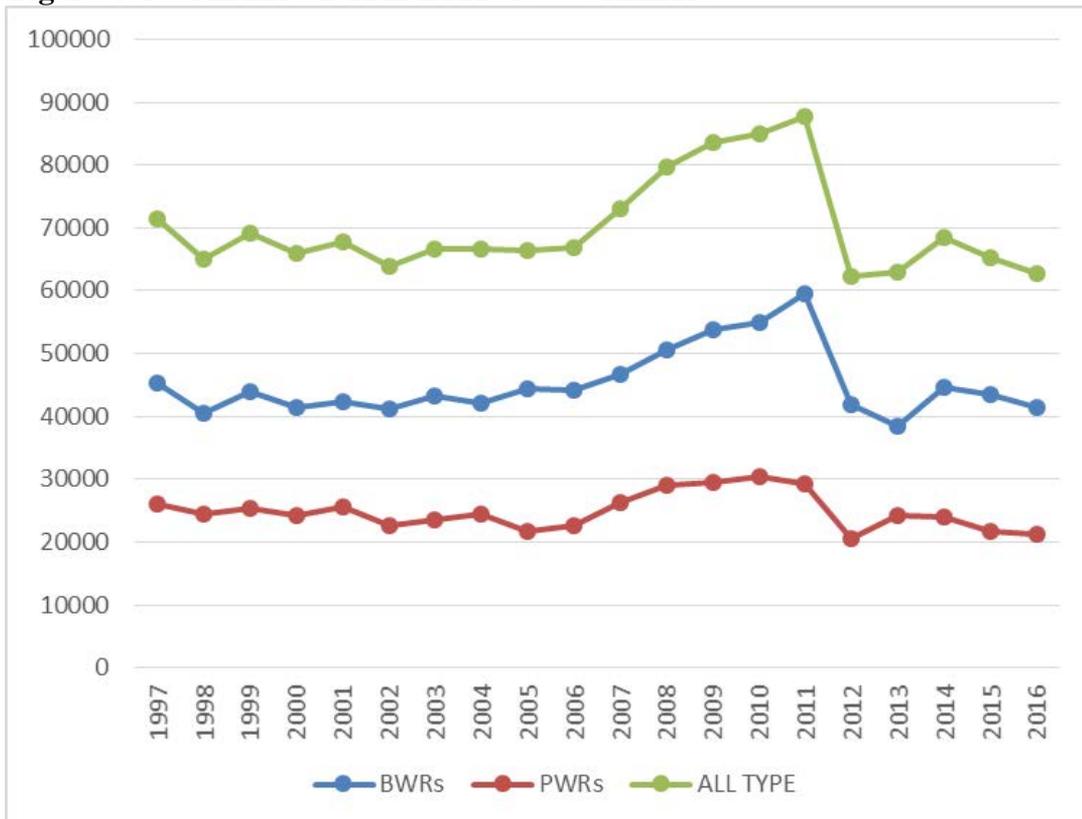
Figure 3: AVERAGE COLLECTIVE DOSE PER REACTOR (man.Sv)



* GCR is included until FY1998.

** This figure includes 13 reactors which are permanently shut down.

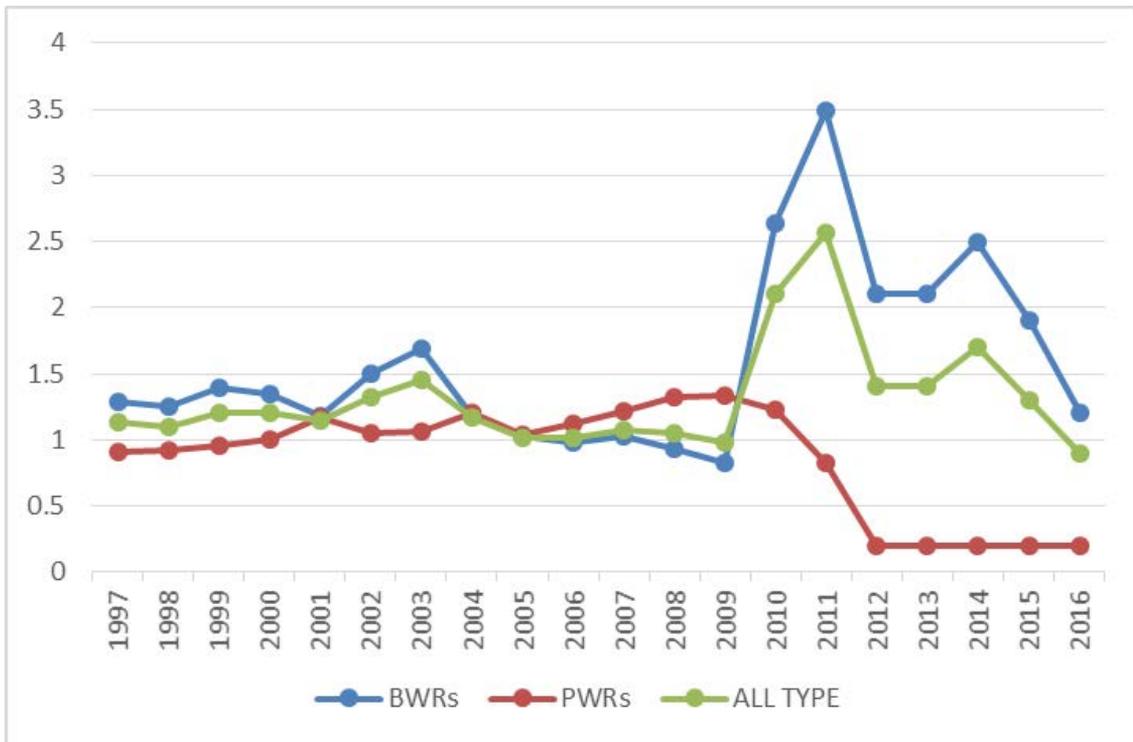
Figure 4: NUMBER OF RADIATION WORKERS



* GCR is included until FY1998.

** This figure includes 13 reactors which are permanently shut down.

Figure 5: AVERAGE INDIVIDUAL DOSE (mSv)



* GCR is included until FY1998.

** This figure includes 13 reactors which are permanently shut down.