Global Energy Policy Research | GEPR

GEPR??
????http://agorajp.com/??
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?? ?? · Monday, January 2nd, 2012

2011?3?11??????????????????????????2??
?????????1????????????????????????????2??
??????????????????????

??50????????????????????????
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??????????????????????????????IAEA??
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1.???????????

??????????????????????????3?11??????????????ECCS??
??12????????????????????
??????????????????????????

??2800??????????????????1500????????????????????????
??

??63?TBq????IAEA???????INES????????????????????????
7?????131???Bq??7????????????????????
??
????????????????????INES????????????????????????????

??1????????????????????????
???????SPEEDI??????????????3?12???4?24????????????????????IAEA???????????100mSv??????????
??10km???????????????????????? 2011??

??1:SPEEDI?????????????3?12??4?24??



????

??????? ?mSv?

1=100

2= 50

3= 10 ? ???????

4= 5

5= 1

??????????????????????????????????3?11???????????3km???????????????3?10km??????????????
?????????12???10km???????????20km?????????3?15???20?30km???????????????????????????
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??????????????????????

??????????????????????????????IAEA??ICRP
????????2007???103??

- ??:1mSv
- ???????:20?100mSv
- ??????:1?20mSv

??137???????500Bq/kg????????????????????????????????ICRP?????????????

2.ICRP???LNT??

IAEA?1mSv/???????????1990??ICRP?60????????????????????????????????2.4mSv/???????1.5mSv????????????????????????100mSv/????????????????Linear No Threshold??

ICRP?LNT???????1958????????????????????????????????DNA????????????????????????38???DNA??ICRP??????????????????5mSv??1mSv?????

??ICRP??Tubiana et al. 2009?????????100mSv???????????????500mSv????????????????????????????????LNT????????????????

> ??X????????CT??

?????????????167????????LNT?????????????????????????BEIR?Biological Effects of Ionizing Radiation? VII????BEIR 2006??ICRP??99????2006???????BEIR?????LNT??p.6??????????Tubiana?????????????????????[1]??200mSv??50?????ICRP?????????????????LNT??????????????????20????????????????????????? 1998:77??

????????100mSv??100?200mSv?????????1.08???????????1.06???????1.02?1.03????????????????????? 2011:79??

??1???????????100mSv???

3.??????????

??2003?5??134????????47????????????????????????????????????4000????????2200?????????????131???????????4000????????????????????????99%??????IAEA 2005??

??????2008??????????UNSCEAR?????????????????????????53??47????????????15????62????????????UNSCEAR 2008??

??35???????????20????????1

250??????10?20??
??????????????????????

????????????????50????????????????5??????????????OECD???????????1969?2000????????
????????????????????2????????????2????????????????????????????????????1????????????????????????
???????????????1975??????3????????????OECD??????????????1?????????????????????????????
??????????????????????????????????????OECD 2010??

??2:1969?2000??????????????5????

?????	OECD			?OECD		
	???? ??? ??/GW?			**???? ??? ??/GW?**		
??	752259		0.157	104418017		0.579
??	1653713		0.132	23216505		0.897
????	901043		0.065	45	1000	0.111
LPG	591905		1.957	46	2016	14.896
??	1	14	0.003	1029924		10.285
???	0	0	–	1	31	0.048
??	3908934			148072324		

????????????????????????????????1??
??40?????????????1000??1????????????????????????????
??OECD????????????????????????????????????

??1????????????????????????????????????
??
??2011????2???4?5000????????????????????
????????? 2011??

- **??????????????:???1?246???2????:8,972??/?**
  - ???????:1,139??
  - ?????:1,276??
  - ????:1,915??
  - ????????????:2,649????
- **??????:2?6,184??**
  - ??????????:5707??
  - ???????????????:1?3039??

????????????????????????????????

- ??????????????????:8,338??
- ??????????????????:651??
- ????????:3,367??
- ???????????????:684??

?????????9000????????????????????????2450???2010??
??
??
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???
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4.??????????

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??????????????5???????500???1?????????????????????1.2?1.6?/kWh??????????????????????
2011?????????????????????????1?2?/kWh?????????????????1.4?/kWh?????????????????????

???
????30???????????1600ha????8000??????????1ha????????5???????????????????????????1mSv?
?????2.5mSv????????????????????1?km2??????500????????????????

???1mSv?2.5mSv??????
???
???

??????????????????100mSv??????????????????1????100mSv/???????????????10km???????????
????????????????????????????10km2??????????????????2??/m2??????2000????????????????????
??1??????????
???2?????????????????

???????????????????????1?2922??
???3?6000?????9000???????????
???
???????????????????2?????????????????????????????????0.7?/kWh??????

????????????100mSv???????????????2000??????????????????1?2000??????????????????????????
???2?????????????????????????1?/kWh??????500???1??54????????10??1????????10?????1????IAEA?????????????????????????????[2]?

??????????????????????????????????2004?????????????????????????5.3?/kWh??????????4.6?/kWh?????????????????1?/kWh??????????6.3??5.6???????2004????????????????kWh???????????????
??LNG??????????????????????????????? 2004??

- ????:5.7?
- LNG??:6.2?
- ????:10.7?
- ??:11.9?

??2010????????
??2000?????????
???[3]?

- ???:8.93?
- ??:9.02?
- ??:7.52?

???
??[4]??

??

???65%??

5.??

???1/3??????????????????1/3??????????????10 %???

??200?????????????????????????????

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? 2011???10 ??? ?????

??????????????????????????????????????235??????????????????1???

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??:

[1]
BEIR??????????????LNT??????????????????????????????????????20mSv??200mSv?????????????????????pp.58-60??
[2]
???ICRP???
[3]?????????????????????????????+???10.11???
[4]??2011??

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BEIR?2006? Health Risks from Exposure to Low Levels of Ionizing Radiation
IAEA?2005? Chernobyl’s Legacy: Health, Environmental and Socio-Economic Impacts
OECD?2010? “Comparing Nuclear Accident Risks with Those from Other Resources”
Tubiana, Feinendegen, Yang, and Kaminski ?2009? "The Linear No-Threshold Relationship Is Inconsistent with Radiation Biologic and Experimental Data", Radiology 251?1?:13-22
UNSCEAR?2008? The Chernobyl Accident
?????2010????????????????????????
?????2011???????????????
????2011???????????????
?????????2004?????????????????????????9??????
??????
????2011? ??????????????????
??????????????2011????????????????????
??????2011? ????????????????????????SPEEDI????
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