



International Atomic Energy Agency

**1st Steering Committee meeting of the
Global Nuclear Safety and Security Network (GNSSN)
2-4 April 2012**

**Activities of CANDU Senior
Regulators Group**

Overview

- **CANDU Senior Regulators Group (CSRG)**
- **CANDU Probabilistic Safety Analysis (PSA) Working Group (CPWG)**
- **Future activities and challenges**



CANDU Senior Regulators Group

- **CANDU Senior Regulators Group (CSRSG) was established in mid-nineties**
- **Countries with CANDU-type reactors: Argentina, Canada, China, India, Korea, Pakistan and Romania**
- **Collectively, these countries own and operate 45 nuclear power CANDU-type reactors.**



CANDU Senior Regulators Group (cont..)

- **Regular meetings**

- **Purpose:**

to contribute to enabling cooperation and information exchange between national nuclear regulatory bodies of Member States that own and operate CANDU-type reactors in order to improve safety, enhance regulatory effectiveness and efficiency and to maintain necessary knowledge and competence.



CANDU Senior Regulators Group

- **CSRG Topics:**
 - **Country annual reports, including recent developments and exchange of operational feedback.**
 - **Technical and policy regulatory issues,**
 - **Actions taken by regulatory bodies in response to significant events licensees.**
 - **Sharing of information on recent IAEA activities**



CANDU Probabilistic Safety Analysis (PSA) Working Group

- **CANDU Probabilistic Safety Analysis (PSA) Working Group (CPWG) was established in 2010, at the request of CANDU SRG**
- **Two meetings took place in 2010 (Vienna) and 2011 (Ottawa)**
- **Terms of reference and work programme were developed**
- **Industry representatives are also involved**
- **Technical position papers are being drafted**



CPWG – Conclusions of 2011 Meeting

- CPWG decided to carry forward 4 tasks among the 9 identified earlier
- Identified 6 new tasks for the coming term (March 2011 – December 2012), including a new task on Fukushima
- **Information exchange to take place via RegNet**
- **Interim Report to be prepared in March 2012**



Future Activities and Challenges

- **Peer Fukushima Review for Regulatory Bodies of Countries Operating CANDU Type Reactors will take place in April in Vienna**
- **2nd extraordinary meeting of CNS (Aug 2012)**
- **Next CANDU SRM will take place in Romania in Q3 2012**
- **Next meeting of CANDU PSA WG will take in Q4 2012 or Q1 2013**



Future Activities and Challenges

- **There are strong demands from Member States involved in CANDU related activities for increased communications on technical and policy issues for CSRG and PSA WG**
- **Platform was created on REGNET for CSRG, but was not populated with sufficient information**
- **Platform for PSA Working group should be created**



Future Activities and Challenges

- **There is a shortage of internal IAEA resources to be dedicated to these tasks**
- **Additional resources are needed for updating information available for CSRG and for creating a working and sharing information space for PSA working group**
- **These activities are important for CANDU regulators and operators (especially for PSA related issues)**



Future Activities and Challenges

- **The IAEA Nuclear Safety Action Plan contains specific actions related to exchange of information and transparency, which are aligned with GNSSN objectives**
- **Support from GNSSN Steering Committee is requested for addressing the identified challenges and for supporting the work of the CANDU community**





- Cooperation among Regulators
 - RCF
- Thematic Regulatory Networks
 - CANDU**
 - CSN
- Regional Regulatory Networks
- International Organizations & Bodies
- Member States Area
 - NNRP
- IAEA Area
 - IRRS
- Education & Training
 - E&T Collaboration Space
- All Site Content

Home > The International Regulatory Network



The International Regulatory Network (RegNet)

The International Regulatory Network is the Portal for web-based international cooperation among nuclear safety and security regulators. RegNet supports national and international actors in sharing of regulatory knowledge, practices and information and in fostering collaboration on nuclear safety and security matters. [\(More >>\)](#)



- [How to Register for the GNSSN Services](#)
- [Structure of the RegNet](#)
- [RegNet Principles](#)
- [Vision and Mission](#)

Upcoming Events

Title
There are no items to show in this view of the "Announcements" list.

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Cooperation among Regulators

RCF

Thematic Regulatory Networks

CANDU

CSN

Regional Regulatory Networks

International Organizations & Bodies

Member States Area

NNRP

IAEA Area

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Forum for Senior Regulators of CANDU Reactors

The **CANDU ("CANada Deuterium Uranium") reactor** is a Canadian-invented, **pressurized heavy water reactor**. The reactors are used in **nuclear power plants** to produce **nuclear power** from **nuclear fuel**. CANDU reactors were developed initially in the late 1950s and 1960s through a partnership between **Atomic Energy of Canada Limited (AECL)**, the **Hydro-Electric Power Commission of Ontario** (renamed Ontario Hydro in 1974, and, since 1999, known as **Ontario Power Generation**), **Canadian General Electric** (now known as **GE Canada**), and other private industry participants.

The acronym "CANDU", a registered trademark of **Atomic Energy of Canada Limited**, stands for "CANada Deuterium Uranium". This is a reference to its deuterium-oxide (**heavy water**) **moderator** and its use of **uranium** fuel (originally, **natural uranium**). All current power reactors in **Canada** are of the CANDU type. Canada markets this power reactor abroad. In December 2009, the Canadian Federal Government announced that they would be seeking private investors for a partial sell-off of its CANDU division.

Today there are 29 CANDU reactors in use around the world, and a further 13 "CANDU-derivatives" in use in India (these reactors were developed from the CANDU design after India detonated a nuclear bomb in 1974 and Canada stopped nuclear dealings with India). The countries the reactors are located in are:

- **Canada:** 17 (+3 refurbishing, +5 decommissioned)
- **South Korea:** 4
- **China:** 2
- **India:** 2 (+13 CANDU-derivatives in use, +3 CANDU-derivatives under construction)
- **Argentina:** 1
- **Romania:** 2 (+3 under construction, currently dormant)
- **Pakistan:** 1



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- Documents
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- Discussions
- Sites
- People and Groups

Forum of the Senior Regulators of CANDU Reactors

Announcements

There are currently no active announcements.

Calendar

There are currently no upcoming events.



IAEA
Department of Nuclear
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**Thank you for your kind
Attention**



International Atomic Energy Agency

