

Ingeniería 2014 Latinoamérica y Caribe Congreso - Exposición

Construyendo un Futuro Regional Sostenible

4 al 6 de Noviembre de 2014 - Centro Costa Salguero - Buenos Aires - Argentina

Comissão Nacional de Energia Nuclear - CNEN

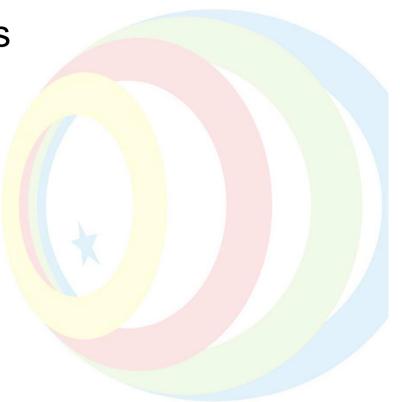
Argentina-Brazil Nuclear Cooperation

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Topics

- COBEN Main Facts and Actions
- RA-10 / RMB Cooperation
- COBEN On Going Projects
- Learning Comments
- Other Cooperation in Place







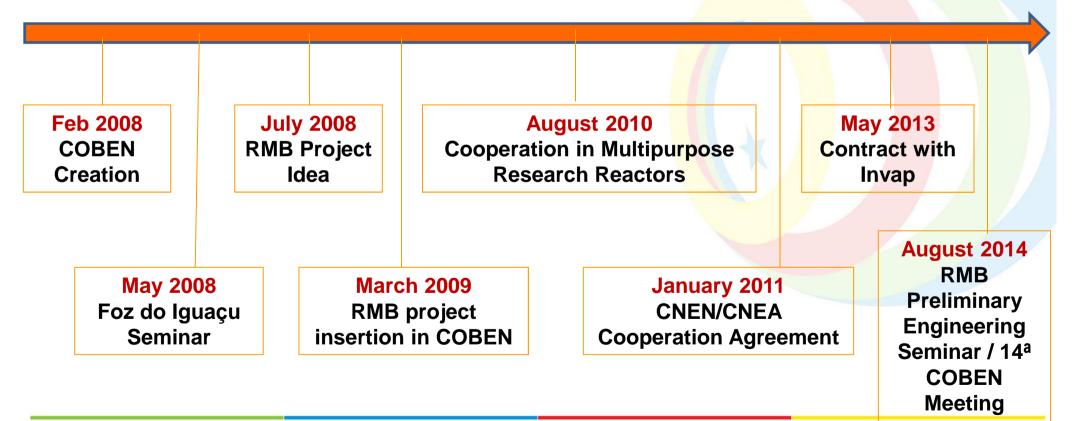




COBEN

Argentinean-Brazilian Bi-National Commission on Nuclear Energy

Main Facts and Actions







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COBEN Main Facts and Actions

1. COBEN Creation – February 22, 2008

 Joint Declaration of the Argentinean (Cristina Kirchner) and Brazilian (Lula) Presidents. Buenos Aires, February 22, 2008.

2. Foz do Iguaçu Seminar – May 26 to 28, 2008

- Approximately 60 representatives from each country
- 74 proposals in four groups: (GI)Applications and Education (30), (G2) Nuclear Regulation (14), (G3) Reactors and Radioactive Waste (8), and (G4) Nuclear Fuel Cycle (12).
- From these, 27 became a COBEN Project







Cooperation on Research Reactors (RA-10 / RMB)

4. RMB Insertion within COBEN

- RMB Project start up on September 2008.
- Definition of OPAL (INVAP design) as the RMB reference reactor
- March 2009: COBEN (G3) meeting on research reactors at CNEA: discussion about RMB (Brazil) and RA-10 (Argentina) Projects.
- RMB and RA-10 Cooperation incorporated to COBEN

5. Cooperation on Multipurpose Research Reactors

- Joint Declaration (Kirchner / Lula) San Juan, August 03, 2010
- "emblematic projects of the bilateral strategic relationship and of high visibility, such as the joint development of a multipurpose research reactor".



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Cooperation on Research Reactors (RA-10 / RMB)

- 6. Draft of the CNEN-CNEA Cooperation Agreement on RMB and RA-10 Preliminary Engineering Design
- COBEN/Group III Meeting in Bariloche, August 2010, about RMB and RA-10 Reactors Similitudes

- 7. Signature of the CNEN-CNEA Cooperation Agreement on the project of a New Multipurpose Reactor, in January 31, 2011.
- Joint Declaration (Kirchner / Dilma) Buenos Aires, January 31, 2011.



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Cooperation on Research Reactors (RA-10 / RMB)

8. Contract with Invap – May 06, 2013

- Preliminary Engineering Design of RMB nuclear items and systems. To be concluded by November 2014
- 9. CNEN/INVAP Seminar on the RMB Preliminary Engineering – August 12, 2014, at CNEN, Rio de Janeiro

10. Perspective

RMB Reactor Detailed Engineering Design by INVAP









Remarks on RA-10 / RMB Cooperation

"RMB Project Development within COBEN has provided a High Technical Quality to its Nuclear Systems Preliminary Engineering Design"

"Cooperation on RA-10 and RMB Projects within COBEN is symbolic and pioneer in terms of cooperation between Argentina and Brazil in the nuclear field"









COBEN Status as per 14th Meeting (Aug 2014)

COBEN GROUP	Projects Going On	New Proposals	Projects Concluded	Projects Stopped	Main Counter- parts
Group I Applications and Education	2	2	-	-	CNEA / CNEN
Group II Nuclear Regulation	6	-	1	-	ARN / CNEN
Group III Reactors and Radioactive Waste	1	2	1	5	CNEA / CNEN
Group IV Nuclear Fuel Cycle	5	1	-	6	CONUAR / INB

Learning Comments

- Many proposals were not at the point to be formulated as a COBEN project
- 2. Argentina and Brazil did not establish specific financing resources nor a funding mechanism for the COBEN projects
- Projects which effectively contribute to the solution of real problems of both countries are more likely to be approved and be funded through the countries funding mechanisms (Ex: RA-10 and RMB)









Other Cooperation in Place

- CNEA Supply of the Radioisotope Molibdenum-99 (Mo-99) to Brazil (CNEN)
 - A 5 year contract (2010-2015) now being extended for 5 years more (2015 2020)
- 2. ABACC Argentinean-Brazilian Agency for Control and Accountability of Nuclear Material
 - Safeguards of both countries nuclear material according to a quadripartite agreement: Argentina, Brazil, ABACC, IAEA
- 3. NASA-Eletronuclear cooperation on the interchange of technical people during NPP maintenance stops.







Thank You

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