

International Conference on Water Cooled Reactors

Vienna 27 -30 October 2009

Proceedings

Topic 2

3 Sessions

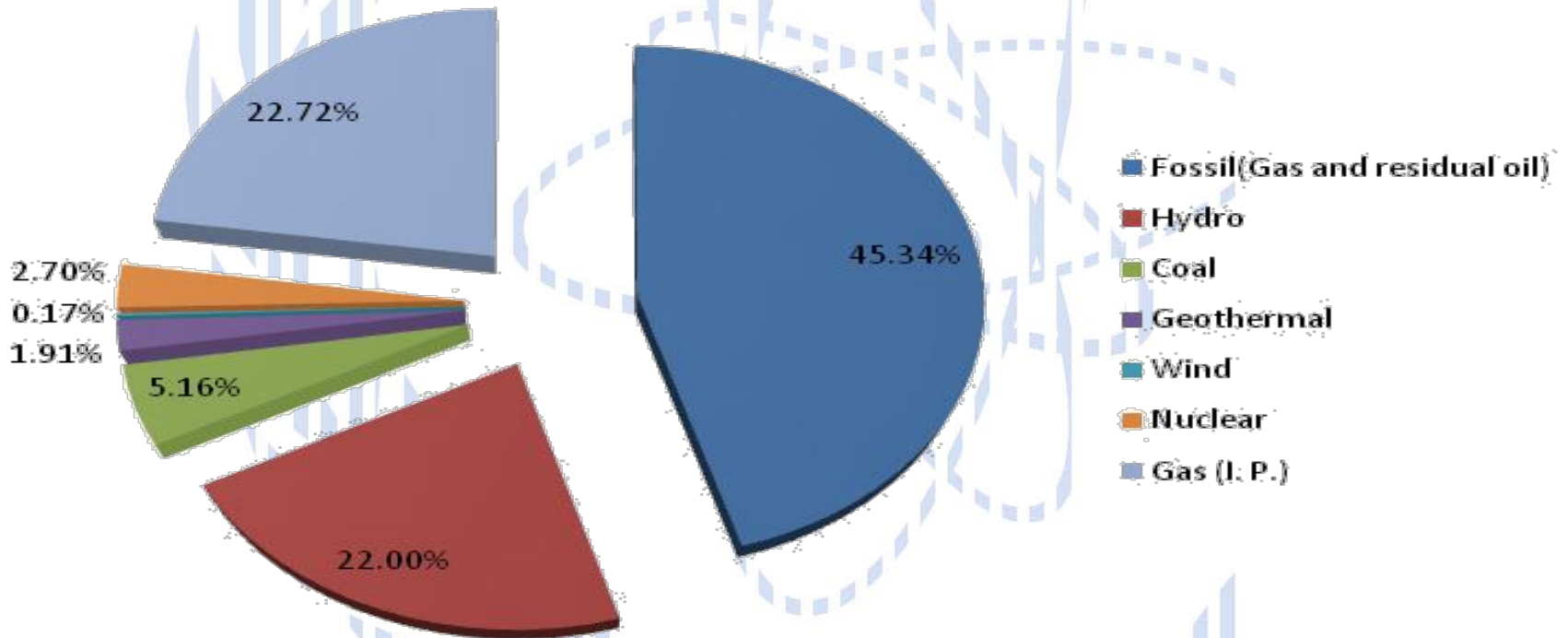
Challenges and Solutions

Cross-cutting Issues

**Chair: O. Gonzalez-Hernandez
(Portugal)**

MEXICO

Source Share



MEXICO

Plan up to 2026

- Power upgrade and extension of life of Laguna Verde 2 units.
- Share of nuclear power will be 12% by 2026 .
- 8 new units X 1,350 MW could be deployed to add 10,800 MW in this period.
- Installed capacity to grow to 55,000 MW.

Newcomers to NPSs

- Kenya
- Bangladesh
- Ghana
- Indonesia + Poland

(Introduction of regulatory authority/systems)

Main Problems

- Financing
- HR

Newcomers

- Subjects only partially covered
- *Public awareness and acceptance*
 - *Role of the IAEA's TC*

Financing of a NPP

AECL

- Despite crisis and cost increase, the picture for financing is still positive
- Importance of comprehensive planning
- Different forms of financing ,contracting and ownership

Mexico case study

- Considerations on costs and different forms of financing

HR

Turner & Braudt USA

ExPerT system to address the lack of HR

AREVA

Challenge to supply the HR needed by the Nuclear Renaissance (manuf., operators existing and newcomers).

Bridge the Gap Programme

Training centers (in France and AREVA)

Training Modules in FRG

Developing E-Training

New designs

AECL

- **Overview of AECI**
- Overview of the **ACR-1000TM design**
- ACR-1000 design does not have any fundamental barriers to licensibility in Canada

Korea, Rep. of

- Overview of development of NP Industry
- A successful model to be followed



Uranium Resources

- Energy balance for low grade uranium ore
- Possibility to economically upgrade such low grade ore
- No lack of uranium resources despite some info to the contrary