

FR09 Young Generation Event (YGE)

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What international cooperation is desirable with regard to fast reactor technology development and deployment to meet global nuclear energy sustainability requirements?

- Recent projections of nuclear energy demand till 2200 are based on the assumption that the nuclear share of the global electricity market in 2100 will reach 20 percent.
- In this scenario fast reactor technology is going to have a more and more important role. In the meanwhile the fast growing up of the energy demand imposes to develop and/or update fast reactor concepts with a 'forced' time schedule.
- In this frame an international cooperation should be composed by both countries with a **strong scientific background** in fast reactor technology and by '**emerging**' countries, i.e. India, China, with ambitious nuclear programs too.
- The cooperation should allow **merging different scientific experiences** and larger man power on few fast reactor concepts with the final goal to identify the machines that will better fit with the needs and possibilities of the different countries, i.e. oxide or metal fuel,...

What role do you expect for IAEA in the international cooperation with regard to fast reactor technology development and deployment?

In this scenario IAEA should have a very important role as coordinator.

The role universally recognized independence actor of IAEA would allow having a fast and 'super partes' instrument for sharing technical information among the different participants.

With this respect, an example of this potentiality can be found on the IAEA website. There, it is possible to access to basic general information about fast reactor technology since now.

What international cooperation do you expect for the world's young generation?

- Young nuclear researchers will be deeply involved in these large programs because of the need to ensure since now a solid future to the nuclear technology.
- In this frame a fundamental role is played by the experienced colleagues also who directly participated to the experimental and research campaigns performed in the past
- On the other hand young generation should profit as much as possible of the possibility to work with skilled people because of the huge amount of experience they gained.
- Enforcing the network among young researchers in order to share the experience gained by each one could be important.