

# *FBNR Letter*

## **FIXED BED NUCLEAR REACTOR – FBNR**

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Dear coworkers and potential coworkers around the world,

As number of coworkers is increasing, we are issuing a common letter to communicate about the matters of general interest related to the FBNR project. Please consider this as a personal letter to yourself. Those who are not involved in the project as yet may participate at any appropriate moment. The project has manifold aspects including scientific, technological, economical, political, and sociological.

The FBNR may be called People's Reactor. It is intended to be developed by the peoples for the peoples of the world in the spirit of cooperation and service to humanity. It is intended to be a near term deployment project. Let us form an international consortium to develop this reactor where all members are stakeholders.

The objective is to develop an innovative nuclear reactor to be inherently safe, passively cooled, small, modular, and simple in design with integrated primary circuit. Safety is achieved by design, and has reduced adverse impact on environment. It is to meet the requirements of GEN IV and IAEA-INPRO as being economic, safe, proliferation resistant and sustainable.

An IAEA Coordinated Research Project (CRP) includes FBNR in its program.

**Participate in the project and make a proposal on a particular activity of your interest.**

**FBNR Letter 04 July 15, 2004**

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### *How to form the World Nuclear Energy Company (WONEC)?*

**The existing nuclear power infrastructures and legal institutions can be used in deploying the proposed reactor concept. The reactor fulfills the objectives of electricity generation, steam production for industrial applications and water desalination.**

**It is desirable that an institution such as World Nuclear Energy Company (WONEC) be formed to become a catalyst in organizing and coordinating the world-wide existing and to-be-created scientific, technological and industrial elements in order to supply the world with clean and safe nuclear energy. WONEC can supply the world with the proposed inherently safe nuclear reactor and be responsible for its entire fuel cycle. It is to function as a commercial as well as scientific venture with highest international standard. Its shares may be freely traded in the international financial market. WONEC is to operate under auspices of the International Atomic Energy Agency (IAEA). WONEC by the nature of its policies, compositions, and adopted legal and ethical values can have the conditions and credibility to supply the world with nuclear energy and create public confidence in nuclear energy.**

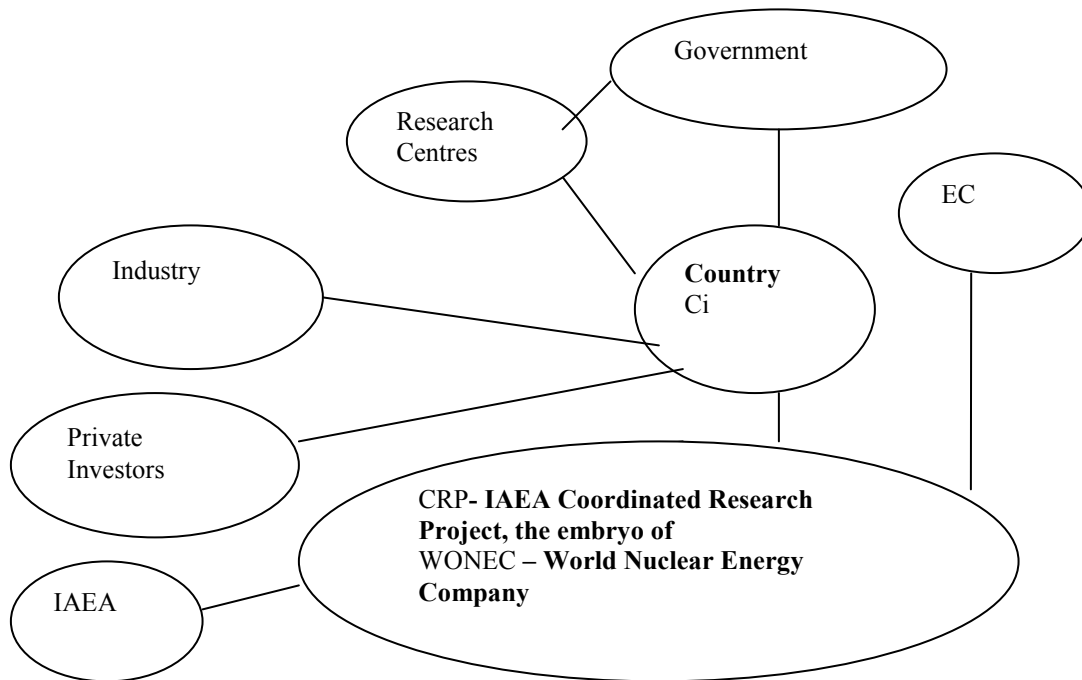
**The research and development needed are to be performed by the participation of all the interested companies and research organizations of the world. It is to be done in a true spirit of international cooperation and service to humanity. Nuclear technology no longer is a monopoly of any single or group of nations and to various degrees most nations possess them. A new method of consultation and decision making process will be applied in order to safeguard the interest of all. The participants will not need to control WONEC to have their interests guaranteed. The project is to remain a totally scientific, industrial, and economic venture, avoiding dominating national politics, and remain in conformity with the spirit of the new age and the presently growing international desire for world peace.**

**The developing countries are expected to show great interest in participating in WONEC since in this way they will acquire nuclear power without the fear of being exploited by the vendors or making very large investments for an independent national nuclear program. The industrialized countries are expected to support the idea as well, since by participation in WONEC they will benefit from the sales of their technologies to WONEC and partake in a very large nuclear reactor sales market worldwide. Also the problem of nuclear proliferation that is of their great concern will be under control. The WONEC is to operate in the spirit of the new era providing the citizens of the world with clean and safe nuclear energy.**

***Participation of various countries around the world.***

**There are many institutions in many countries that are showing interest in participating in the project. There are many financial sources and possibilities around the world that can be utilized. For example, if at least 3 European countries take part in the project, the European Community will contribute with 50% of the cost. Many countries subsidize their clean energy related projects up to 60%. Others provide funds for research that will help elevate the level of science and technology in their countries. There exist many visionary private investors who may provide risk capitals. The nuclear industry and research institutions can make investments by supplying equipments, use of their facilities, manpower, and technology. In this manner, the necessary funds can be raised.**

As an example using the mentioned possibilities, an investment of \$1 by the investor in country Ci attracts \$1.50 from the government and thus results in \$2.50 for the project. With the contribution of the European Community, it becomes \$5.00. If 20 countries participate in this scheme, \$100,00 becomes available for the project. Therefore, the investment of only \$10,000.00 each by 20 institutions from industry, research centers, or private investors can raise \$1,000,000.00 for the research and development of the project. The investments can be in the form of service, equipment, or money.



Your critical comments are most welcomed. Your cooperation in devising the mechanisms in order to bring this ideal into reality is most appreciated.

[Return to FBNR](#)