

# A Brief Country Report: Nuclear Energy Development, Recent Issues/ Concerns and Public Information Activities on Nuclear Energy in the Philippines

Rhodora R. Leonin
Information Services Section
Philippine Nuclear Research Institute



1955 - Philippine government signed a bilateral agreement with the United States on peaceful uses of nuclear energy

1958 - Nuclear energy development officially started with the creation of the Philippine Atomic Energy Commission



- PAEC is now known as the Philippine Nuclear Research Institute or PNRI
- PNRI is tasked with the dual role of promoting, as well as regulating the peaceful applications of nuclear energy

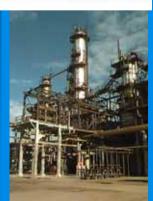




PNRI has been harnessing nuclear energy in the Philippines in many fields such as in

- Agriculture
- Health
- Industry
- Research
- Environment



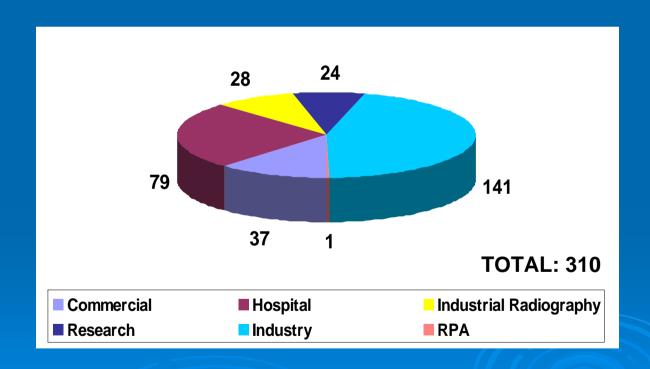








PNRI has been regulating the peaceful uses of nuclear energy in the country



Distribution of Licensed Users According to Classification as of December 2004



### The Nuclear Power Program

1960s - Start of nuclear power program in the Philippines

1979 - Start of construction of the nuclear plant

1985 - BNPP was completed

1986 - BNPP was mothballed



- Philippine Energy Plan (2003 2013)
   does not project the inclusion of nuclear
   energy in the energy mix
- Long -term Philippine Energy Plan, covering 1996 -2025, presented a window of opportunity for the nuclear power option to come in beyond 2020



## The Long Term Philippine Energy Plan

The 30-year Philippine Energy Plan says that "In spite of the intensified efforts to tap indigenous energy sources, the rapidly rising energy requirements would necessitate the higher use of imported energy, such as oil and coal starting 2001 and possibly nuclear beyond 2020, after conducting full blown information campaign on the merits of nuclear as an energy option".



### Public Perception on Nuclear Energy

- The BNPP, Three Mile Island incident and Chernobyl accident generated negative perceptions and attitude in the Filipino public towards nuclear energy.
- Negative attitude can be attributed to the lack of knowledge about radiation and nuclear energy



### Recent Nuclear-Related ssues/Concerns

Keeping open the nuclear option for securing energy supply and environmental protection

MONDAY, AUGUST 22, 2005

#### **Energy options include** diplomacy, nuke power

WITH SECOND ON PRICES COStinually hitting record highs. the government appears bent on looking at any and all options to mitigate the shock to the economy.

Conservation efforts have the latest options on offer, however, may come as a surprise. nuclear power.

A more workable proposal, meanwhile, is that of "oil diplomacy". Among others, this means the Association of Southeast Asian Nations (ASEAN) making representations with the Organization of (OPEC) for preferential rates.

Indonesia, an ASEAN founding member, is also a full member of the OPEC cartel. The Philippines is currently ASEAN vice-chair and will assume the chairmanship next

Foreign Affairs Sec. Alberto G. Romislo also said he has instructed Filipino ambassadors

and diplomata worldwide to intiate oil diplomacy in a bod to obtain preferential rates from nil-rich countries.

"This will be the Department of Foreign Affairs' contribution to the government's efforts at inbeen ordered and alternative creasing our supply of oil. Either facis are now on offer. One of we can get lower importation rates or use for ourselves the best practices of other countries in coping with the billooning price of oil in the world market," be

Farmer Socioeconomic Planning Secretary and now Budget chief Romalo Neri, meanwhile, raised the mulicar option given oil prices having Petroleum Exporting Countries topped \$67 per barrel and \$70 mow appearing likely in the coming mouths.

"If oil prices keep going up at this pace, then nuclear power becomes an option," Mr. Neri said in a radio interview yesterday. "I am not saying we should do it, but we should explore it," he later told Business World but did not provide specifics.

#### Willie Ng Nuclear power & bieveles

PROPER generally believe that

sign oil fields out. here and the last

our at full capacity, the shortage remains and all prices are ready limb to beights heretofore said to

Chies is considering setting up more than 30 nuclear power plants in the coming years to join France, South Kures, and Japan as unclear nower

Mile Island incident involving a malfunctioning madeur plant, is now perparing to construct new modese plants

That is part of these countries' efforts to reduce dependence on sil. They water over the world's increasing demand for oil and the poor prospects of mand for oil min.

The Marcus administration tried to reduce dependence on oil in two

One, it contracted Union Oil to outstruct the genthermal plants in Makiling and Tiet. We like to boast that we are the second largest geo thermal power producer although since Marcos left the seens, no new genthermal plants have gone up.

Two, it built the Bataan nuclear plant. But just when it was ready to co anatreum, the Aunino administra tion came in. It shandsned the Bataan plant for being amage and because Westinghouse gave kickbacks. The apprehension over nuclear power remains to this day.

safer than the old models. Nuclear power is clean as compared to oil-born

It makes more sense to conside nucleur power than to propose halfbaked schemes of oil consumption such as making a reluctant popula



## Recent Nuclear - Related Issues/Concerns

 Safety and Security of Radioactive Sources

There is a growing concern that terrorist groups can or may have access to radioactive sources and are or maybe planning attacks on nations worldwide.

The Philippines, through the PNRI and other relevant agencies, implements security and safety plans to prevent and combat acts of nuclear terrorism.



## Recent Nuclear -Related Issues/Concerns

 Safety and Security of Radioactive Sources

The PNRI has developed the Philippine Action Plan for the Safety and Security of Radioactive Materials

PNRI tackles security of radioactive materials by this nationally adopted strategy which is based on the IAEA Code of Conduct on the Safety and Security of Radioactive Materials



## Recent Nuclear-Related Issues/Concerns

The US and Philippine Governments signed an agreement to install special equipment at the Port of Manila to detect hidden shipments of nuclear and other radioactive material. This agreement will further strengthen their work together in the war on terrorism.



DOST Secretary Estrella
F. Alabastro and United
States Charge d' Affaires
Joseph A. Mussomeli
during the signing of the
Memorandum of
Agreement



## Public Information (PI) Activities on Nuclear Energy

### Strategies:

- Conduct of nuclear awareness seminars
- Guided tour of PNRI facilities
- Mass media linkages/media relations
- Participation in national science & technology events such as exhibitions/fairs;
- Nuclear information promotion and education through print and non-print materials.
- Linkage with local and international institutions and organizations such as the Forum for Nuclear Cooperation in Asia (FNCA)



## Public Information (PI) Activities on Nuclear Energy

FNCA Countries: Australia, China, Indonesia, Japan, Korea, Malaysia, the Philippines, Thailand and Vietnam



The participants
to the Public
Information
Project Leaders
Meeting 2003 in
Vietnam



## Highlights of FNCA Public Information (PI) Acitivities

The "Joint Cross-National Questionnaire Survey on the Literacy in Science and Technology and Use of Radiation Among High School Students in Seven FNCA Countries" provides valuable information that are now being used as basis for improving PI strategies and learning resource materials for Filipino students and educators







## Highlights of FNCA Public Information (PI) Activities

Regional Speakers Bureau (RSB) has provided valuable support to national PI events: Atomic Energy Week celebrations and Open Seminars/ Lectures during hosting of FNCA seminars/meetings.









PRSB also provided support to other organizations like the WIN (Women in Nuclear) Global. The PI Project Leaders from the Philippines and Vietnam gave presentations on the PI activities in their countries during the WIN Meeting in Tokyo in 2004.



## Highlights of FNCA Public Information (PI) Activities

FNCA PI website ( http://www.fnca.jp/english/ ) and exchange/ provision of information materials (such as Atoms in Japan, Power Line, FNCA Newsletters) have also been very useful for obtaining and providing up-to-date and accurate information on nuclear energy related topics in the region.

Figure 1 (No. A frequency) to be served to the project of the proj



