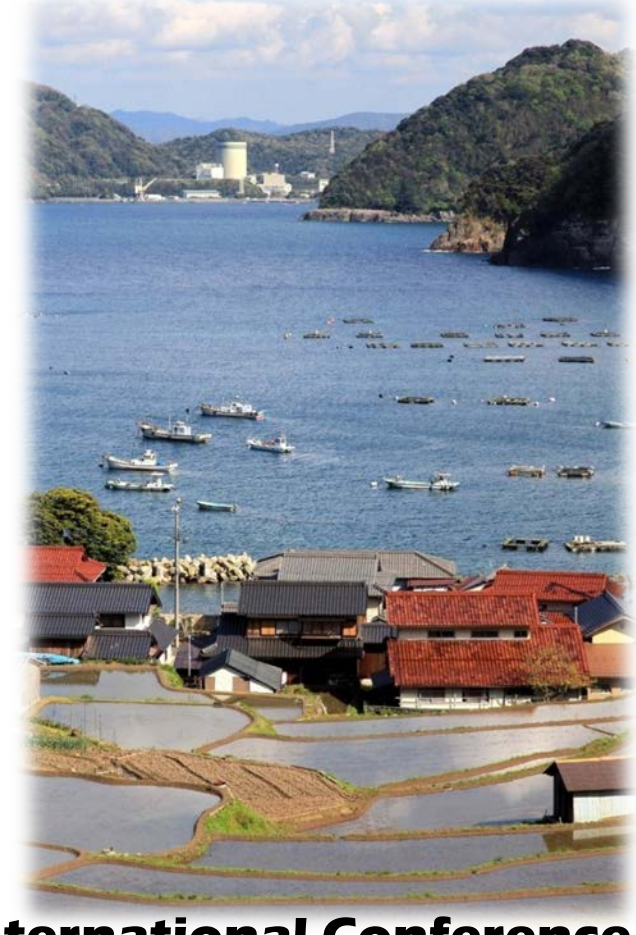
Strategic International Cooperation of Fukui Pref. Gov. in Human Resource Development for Nuclear Power Programmes

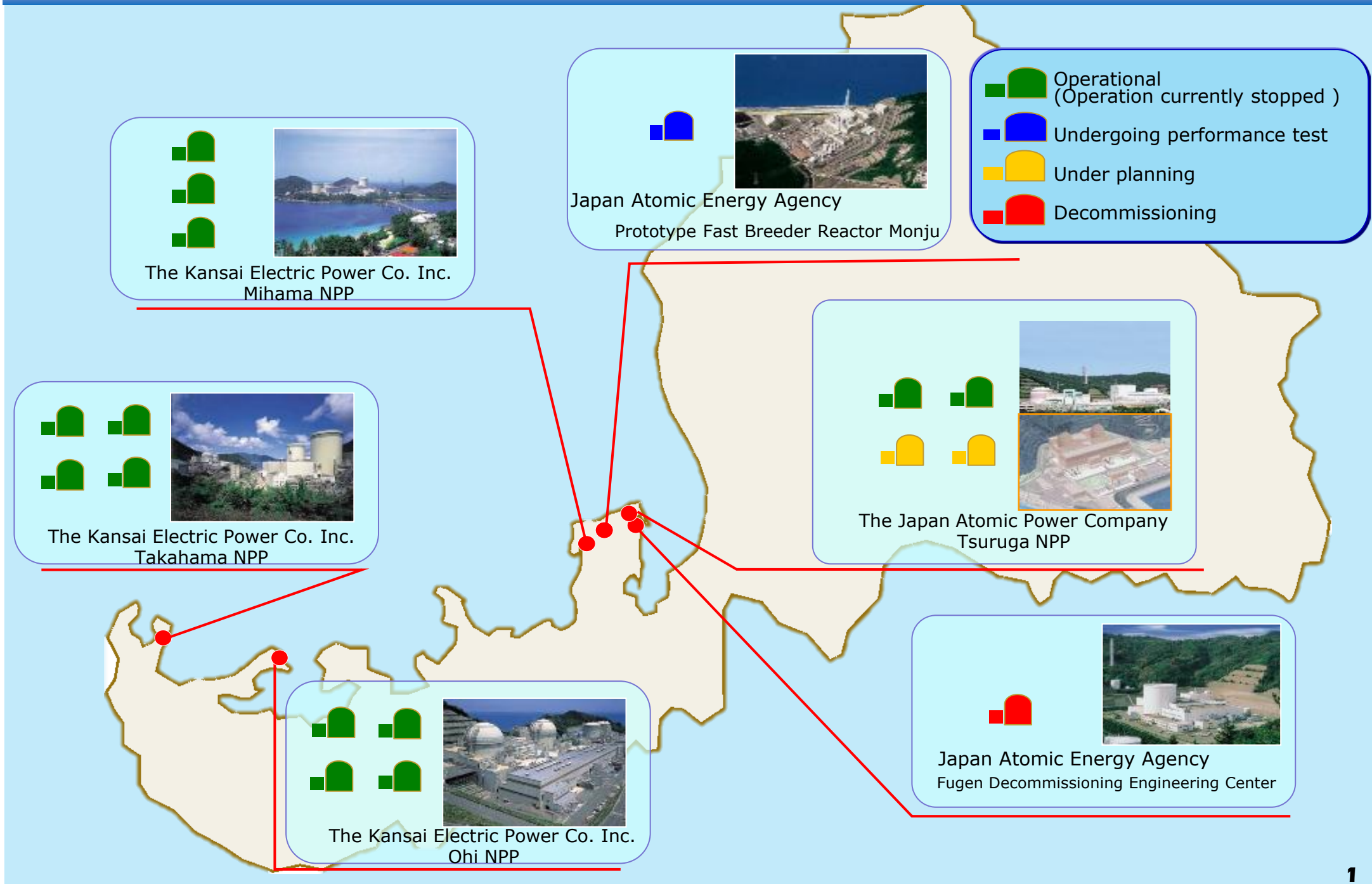


"International Conference on Human Resource Development for Nuclear Power Programmes: Building and Sustaining Capacity"

12th May 2014

Issei Nishikawa, Governor of Fukui Prefecture

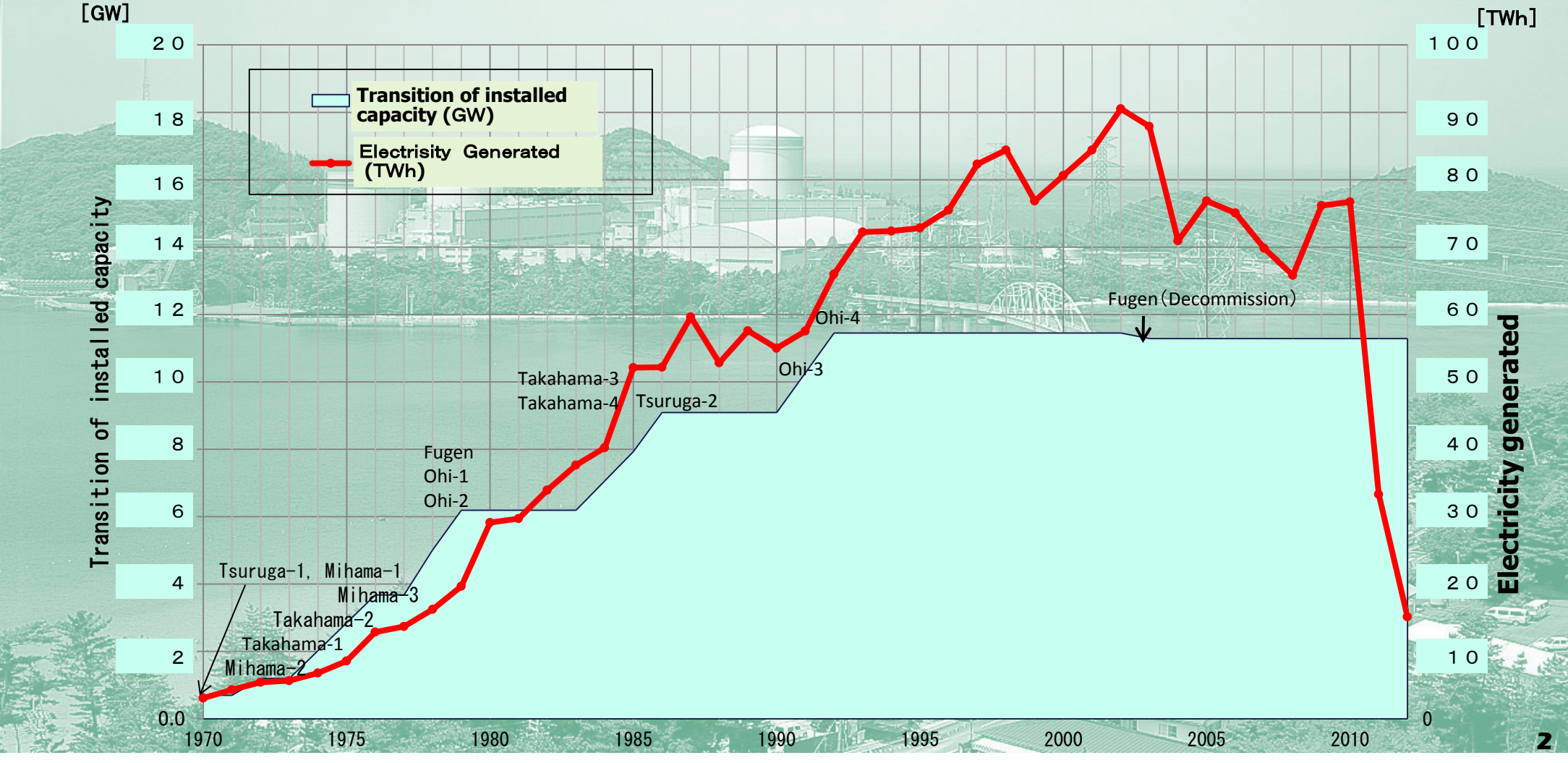
Nuclear power plant in Fukui



Trend of Nuclear Power Generation in Fukui

The greatest power supply area in Japan

- Amount of electric power generation by 13 NPPs. **11.28 GW**
- About **1/4** of nuclear power generation in Japan
- About **1/2** of power consumption of Kansai area before Fukushima Accident



History

1970 First NPPs started operation in Fukui

1972 Employ nuclear power specialist
(earliest in Japan)

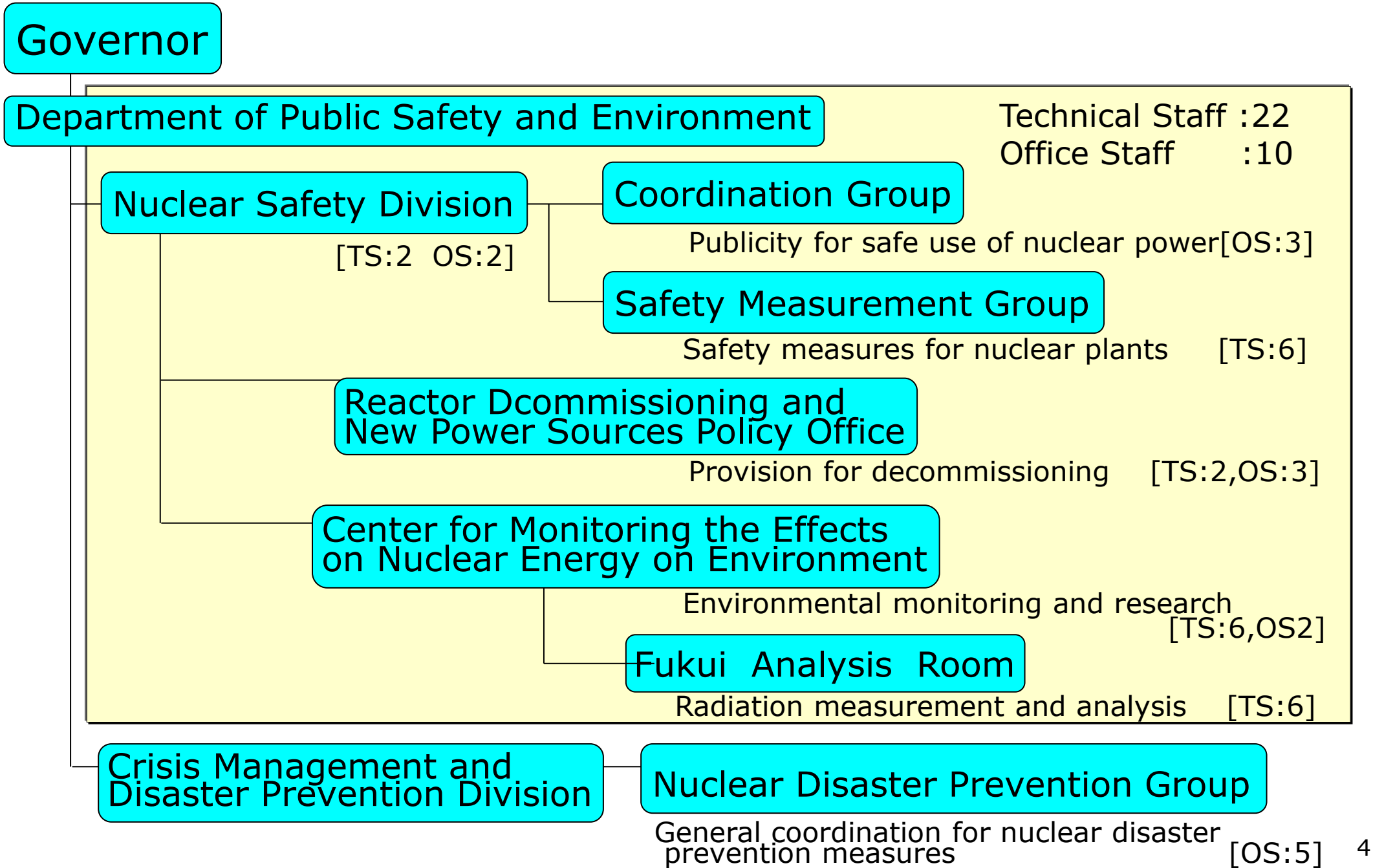
1977 Set up the Nuclear Safety Division
(earliest in Japan)

2001 Dispatch technical staff
to the Nuclear and Industrial Safety Agency,
METI (until May 2005)

2005 Accept technical staffs from NISA

2006 Dispatch technical staff to OECD-NEA
(until July 2010)

Organization for Nuclear Safety Management System of Fukui Pref.



Restarting the Ohi Nuclear Power Plant after the Fukushima Accident

March 2011 Fukushima nuclear power plant accident
May 2012 All 50 NPPs in Japan stopped operation
June 2012 Prime minister decided to resume operation of Ohi No.3 & 4 units
Governor of Fukui Pref. requested the government to set up a "special monitoring system"
July 2012 -Sep.2013 Ohi No.3 & 4 units resume operation

By taking every precautionary measure and proceeding carefully,
we showed that safe operation was possible
while meeting the electricity demand of the kansai area

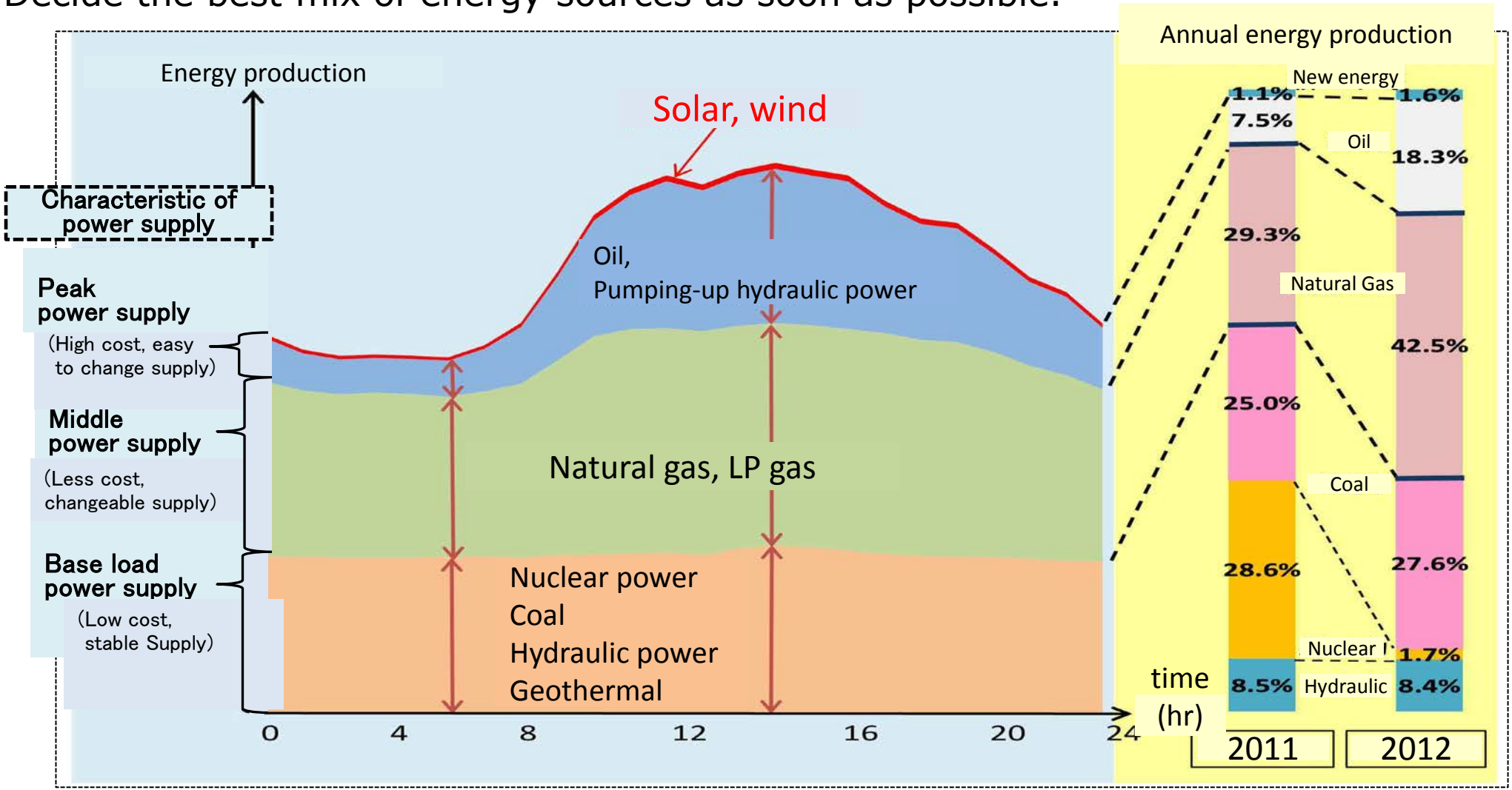
Governor Nishikawa and the Chairman of the Nuclear Safety Commission inspecting the Ohi NPP(12 June 2012)

Governor Nishikawa requesting to Prime minister Noda to set up a "special monitoring system"(16 June 2012)

Japan's new "Basic Energy Plan"

Approved by Japanese Cabinet on April 11th 2

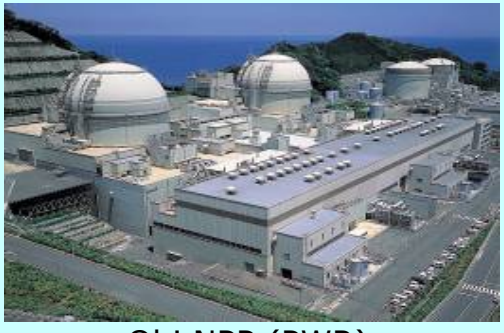
- Nuclear Energy is an important "base load power supply"
- Restart NPPs that adhere to the world's strictest regulation standards.
- Reduce dependence on nuclear power as much as possible.
- Ascertain the scale of steady supply, cost reduction, global warming, ensuring safety.
- Decide the best mix of energy sources as soon as possible.



Characteristics of training program in Fukui

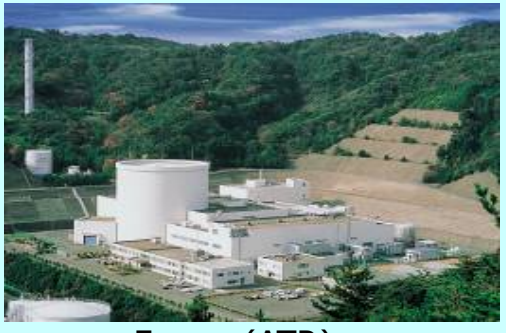
On-site training(example)

Visit plants of various reactor types（rarity in the world）


Ohi NPP (PWR)


Tsuruga NPP (BWR)


Monju (FBR)


Fugen (ATR)

From construction to decommissioning of nuclear facilities
Experience the livelihoods of people coexisting NPPs

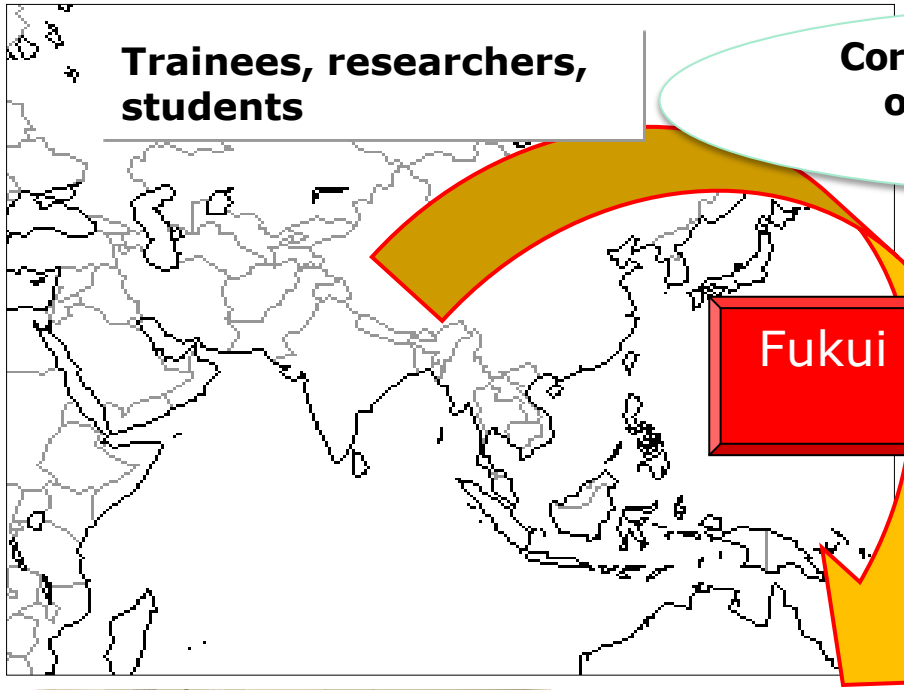

Construction site of a latest model NPP (APWR)
(Tsuruga NPP Units 3 & 4)


Demolition work site of a NPP
(decommissioning Fugen)


Tourists enjoying swimming at a beach close to NPP
(Mihama NPP)

Activities of international human resource development for nuclear energy in Fukui

We form a base for international nuclear human resource development in Fukui

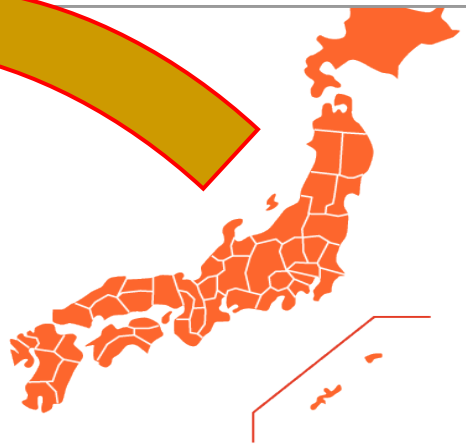


Trainees, researchers, students

Core organization in network of HRD in field of atomic energy (JICC,JAEA)

Students and members of society

Fukui International HRD Center For Atomic Energy



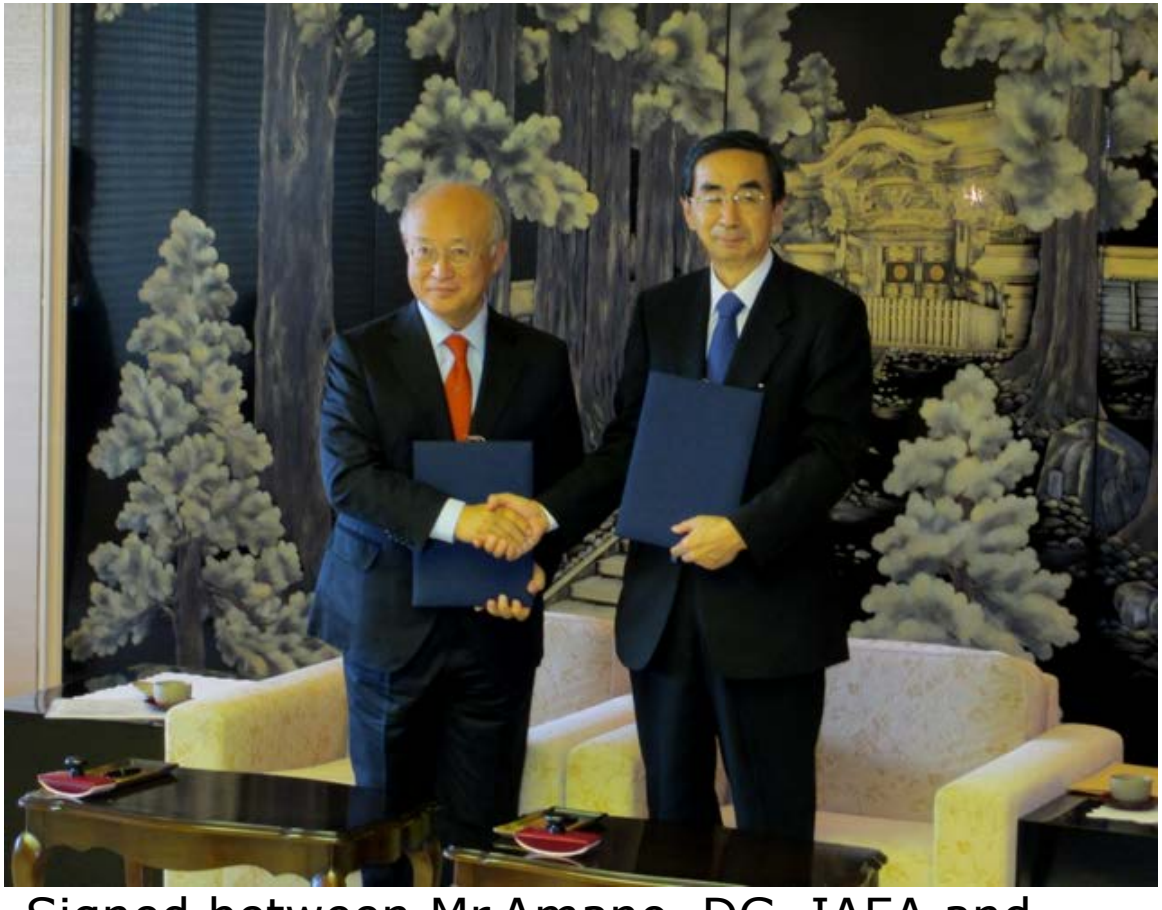
Nuclear related and radiation use facilities in Fukui

We contribute safety technology advancement and HRD to countries planning to introduce nuclear power or radiation use.

Signing Practical Arrangements between Fukui Pref. and IAEA

Purpose : HRD in the field of safe use of nuclear energy and applications, by utilizing facilities and human resources in Fukui

Scope : Assistance in training, disseminating information, exchanging experiences, etc.



Signed between Mr.Amano, DG, IAEA and Mr.Nishikawa, Governor, Fukui Pref. 7 October 2013

Cooperation with the IAEA: Nuclear Power

Holding a international conference

Fukui International Meeting on HRD for Nuclear Energy（March 2014）

Held by Fukui Pref. & WERC
In cooperation with IAEA
5 Asian countries & IAEA Participated

Implementation of training programs

Mentoring Course (July 2013)
Nuclear Policy School (February 2014)

Held by IAEA,JICC & WERC
10 Asian countries Participated

Cooperation with the IAEA: Radiation Application

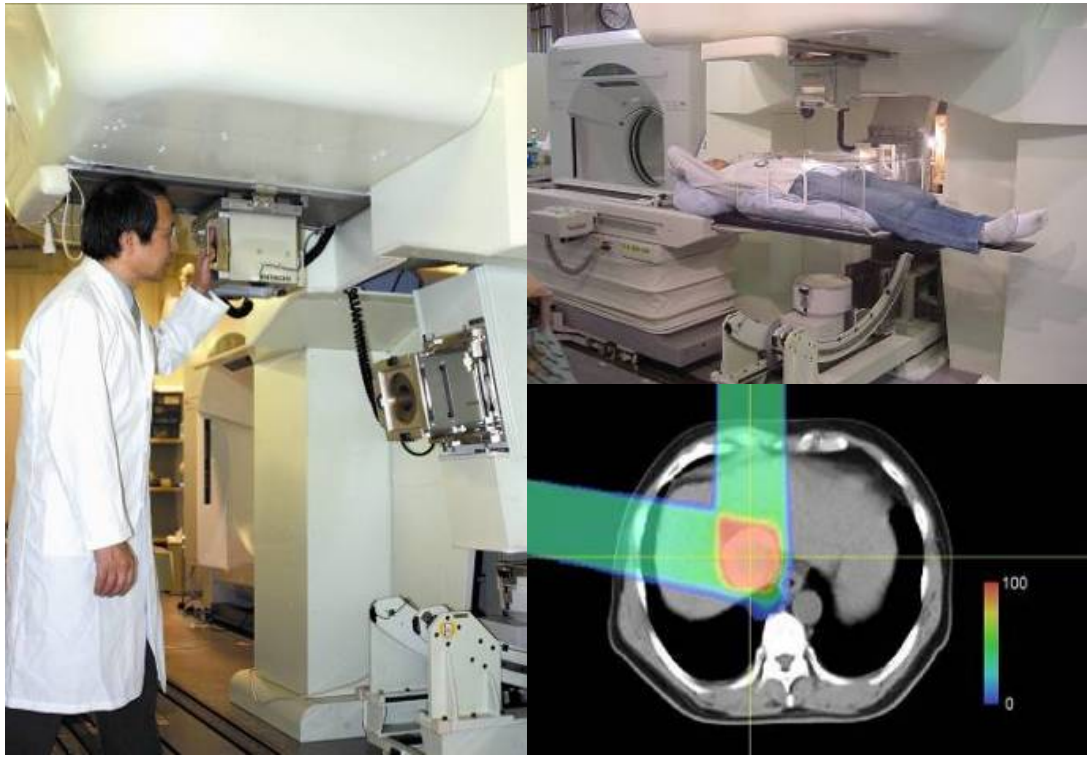
Radiation Cancer therapy technique by using proton beam accelerator

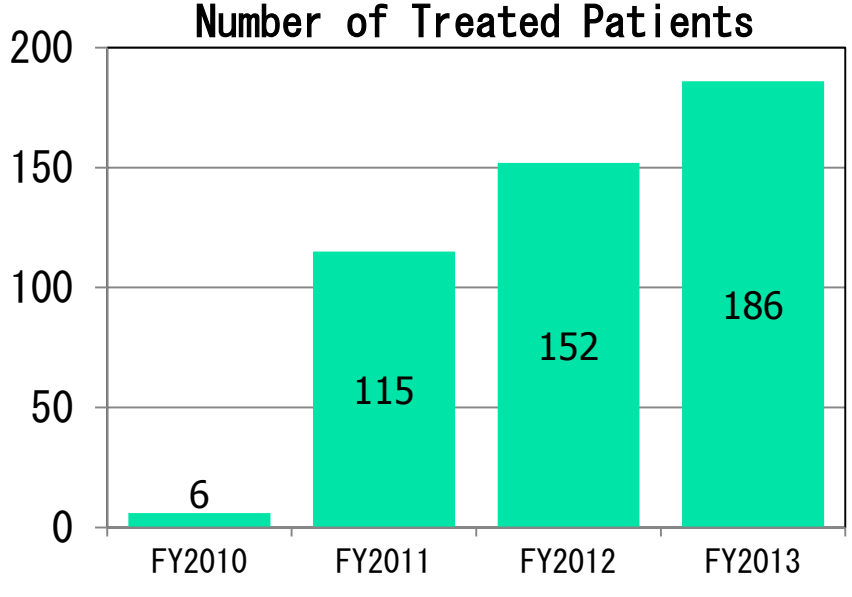
Proton Therapy Center
in Fukui Prefectural hospital

Since March, 2010

Target Disease : Solid tumors of head and neck, lungs, liver, prostate, etc.

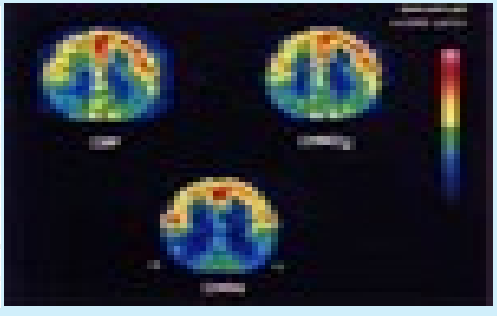
Number of treated patients : 459 as of March,2014





Cooperation with the IAEA: Radiation Application

Advanced Medicine by PET and MRI



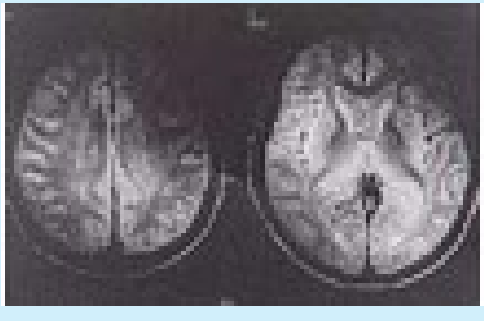


Image diagnostic technology
X-ray CT (Upper left)
MRI (Lower left)
PET (Above)

University of Fukui
Biomedical Imaging Research Center

Selective Breeding Research

Conventional Improved

Improved tomato
(Sweeter, lower suberin content, and resistant to disease)

Conventional Improved

Improved green soybean
(Increase in grain size)

The Wakasa Wan Energy Research Center

Experience Fukui !

Fukui Prefectural Dinosaur Museum
in Katsuyama City

WASHOKU,
traditional Japanese cuisine
made with rich, natural ingredients of Fukui