Peaceful Use of Nuclear Energy in Japan

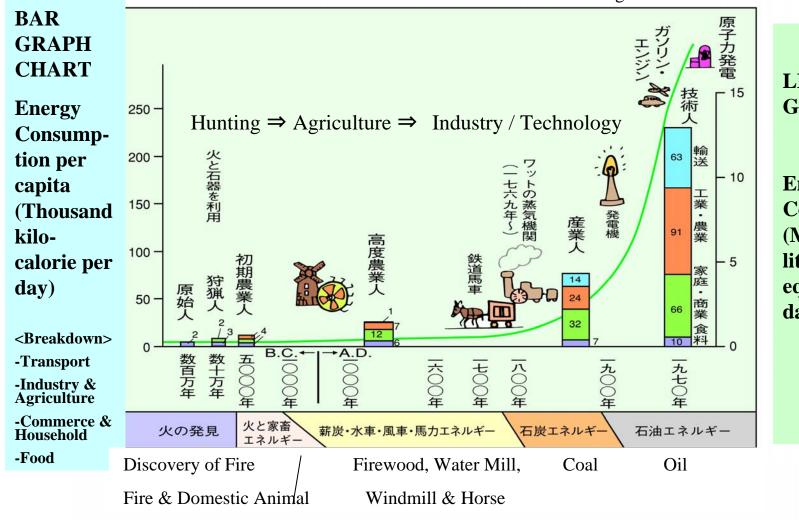
~ From the Viewpoint of Energy Supply ~

Takahiko ITO Chubu Electric Power Co., Inc.

Note: OHP 2,3,4,5,6,7,8,10: "Graphical Flip-chart of Nuclear & Energy Related Topics 2007/2000" (The Federation of Electric Power Companies)

Energy and Human being

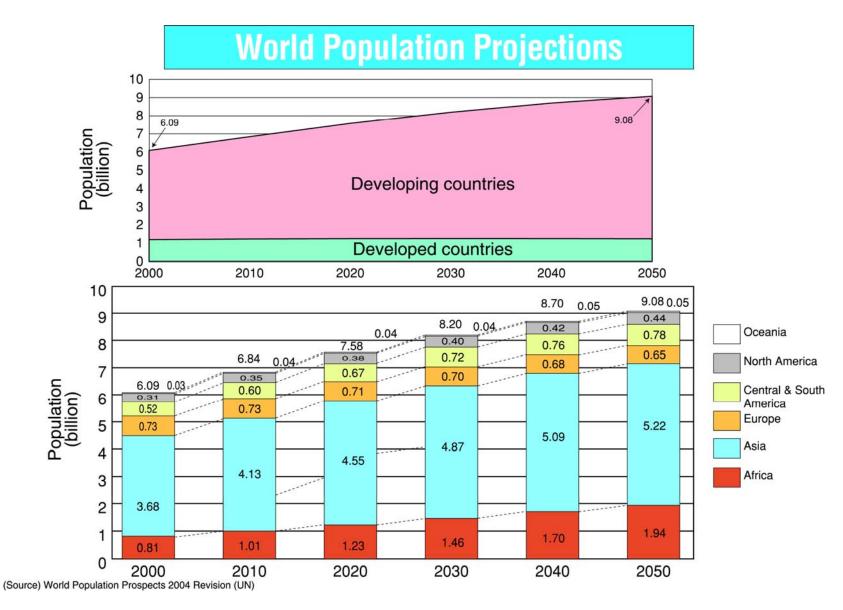
Gasoline engine / Nuclear Power



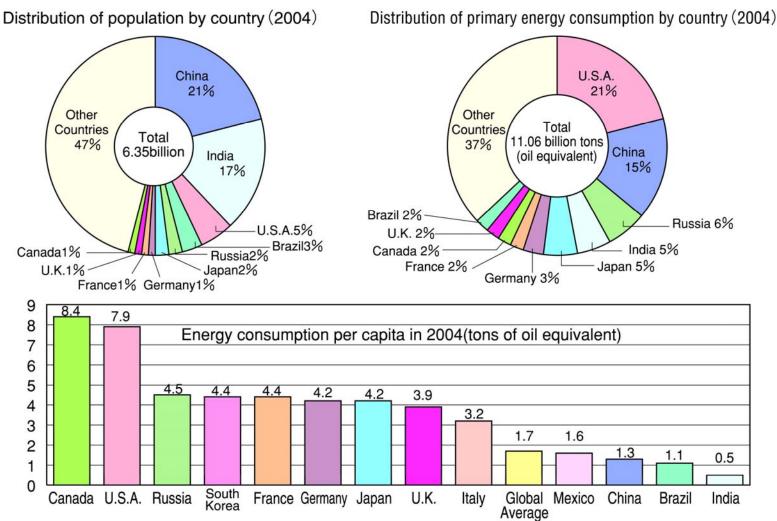
LINE GRAPH

Energy Consumption (Million kiloliters of oil equivalent per day)

出典:総合研究開発機構「エネルギーを考える」2

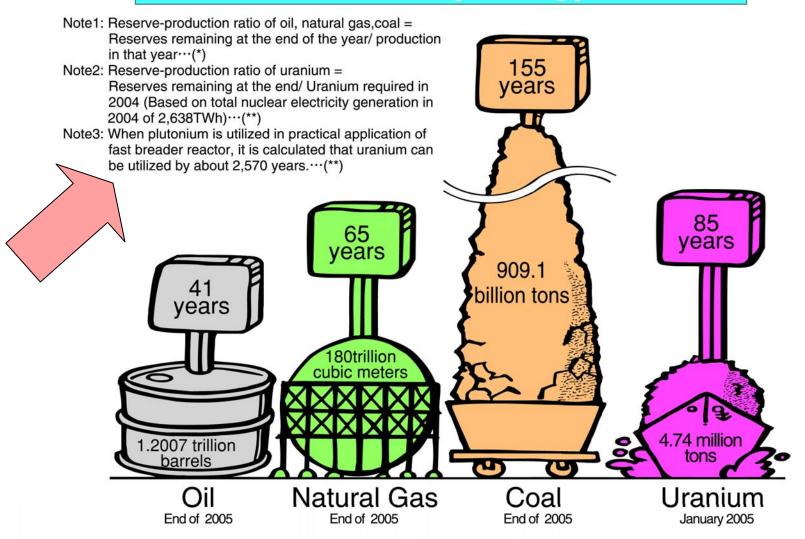


World Population and Energy Consumption



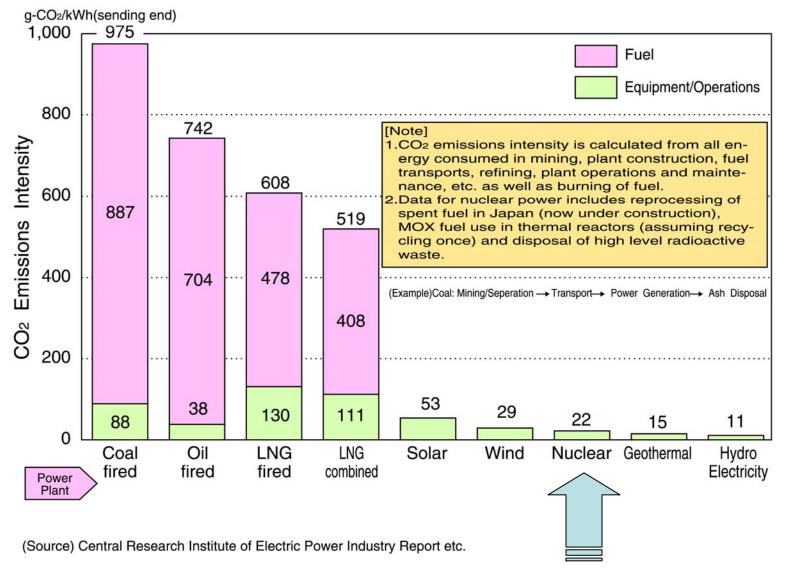
(Note) Figures do not necessarily total to 100% due to rounded numbers. (Source) ENERGY BALANCES OF OECD COUNTRIES 2003-2004 ENERGY BALANCES OF NON-OECD COUNTRIES 2003-2004

Proved Reserves by Energy Sources

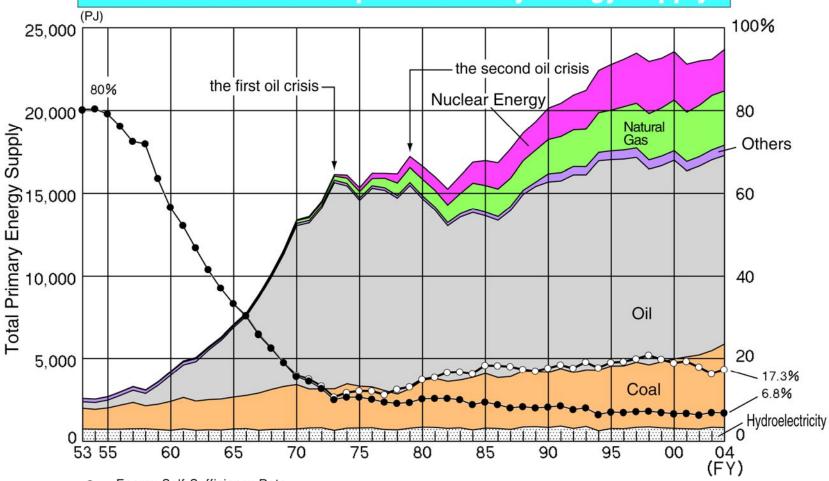


(Source) (*)BP Statistical Review of World Energy June 2006 (**) Uranium 2005

Japan's Lifecycle Assessment CO₂ Emissions Intensity by Source



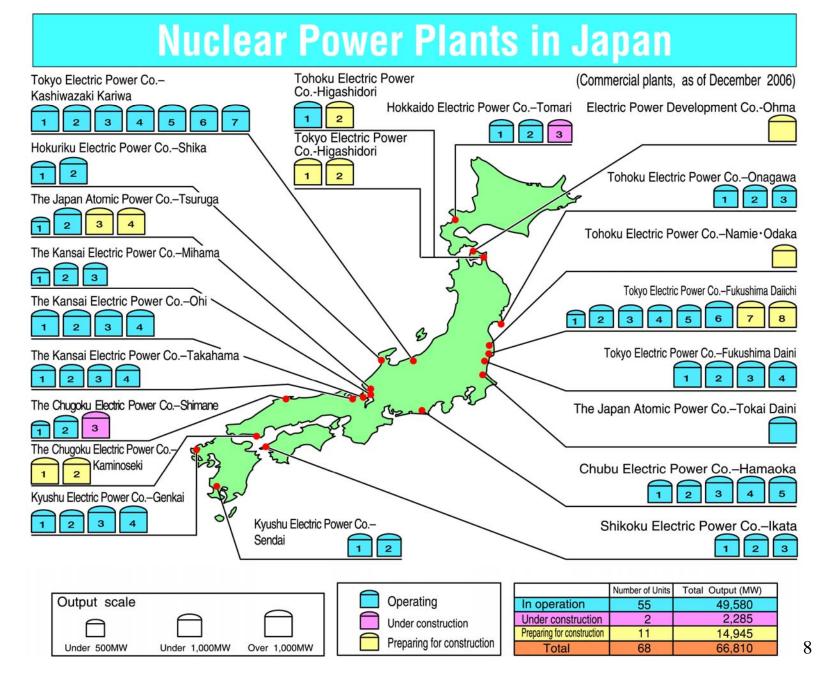
Historical Trend of Japan's Primary Energy Supply



Energy Self-Sufficiency Rate

Energy Self-Sufficiency Rate(excluding nuclear energy)

(Note) $1PJ(=10^{15}J)$ is equivalent to approximately 25,800,000 liters of crude oil in calorie. (Source) Agency of Natural Resources and Energy

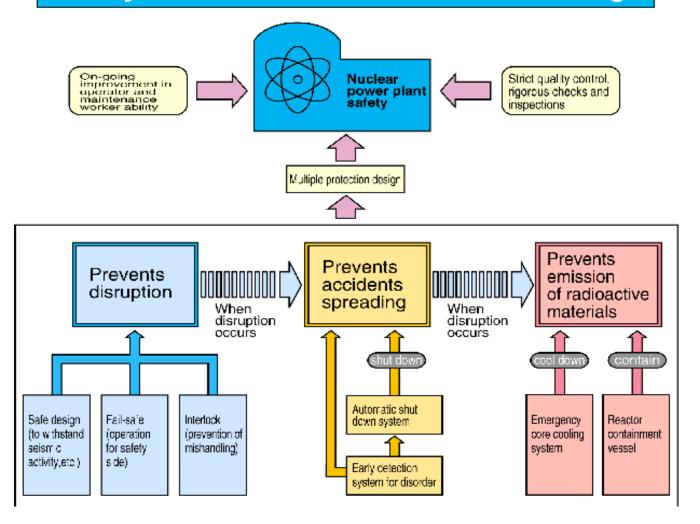


Framework for Nuclear Energy Policy

< Cabinet resolution adopted October 2005>

- (1) Have nuclear power continue to account for at least approximately 30 to 40% of total electricity generation even after the year 2030
- (2) Promote the nuclear fuel cycle
- (3) Aim at the commercialization of fastbreeder reactors by the year 2050
- (4) Steady promotion of measures for geological disposal of high-level radioactive waste

Safety Features of Nuclear Plant Design



Earthquake at Kashiwazaki-Kariwa Nuclear Power Station

- All units were cooled down in a safe manner and maintaining stable condition.
- The most significant safety measures functioned, as intended in the design, of protecting high radiations in the reactors in the multiple-defense and multilayered manners.
- It is our nation's responsibility as a most earthquake-ridden country to share internationally the lessons learned from the Earthquake. (NSC of Japan)

Peaceful Use of Nuclear Energy ~ Some Personal View(1)~

- Nuclear Power Indispensable but not a superman
- Make the greatest possible use of existing nuclear power plants with assuring safety as a key prerequisite
- Harmonization of framework, infrastructure, regulation · · is important.

Peaceful Use of Nuclear Energy ~ Some Personal View(2)~

- Transferring technologies to the next generation, while securing personnel for plant construction
- Recover & gain public trust: Baseline is "Transparency & Dialog"
- International standpoint is necessary in the area of personnel, public trust and harmonization of framework.