

A Perspective to Ensure the World's Nuclear Renaissance

World Nuclear Association
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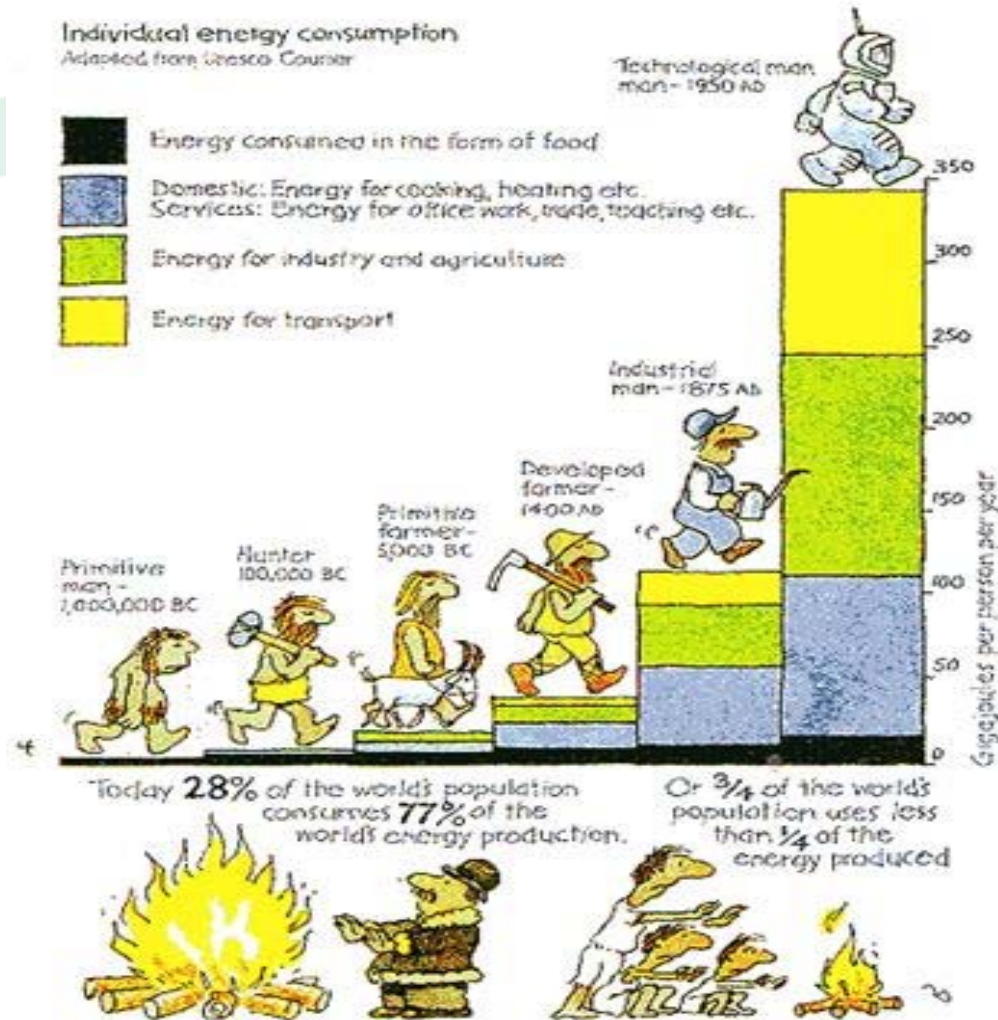
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World Energy Outlook

- World electricity demand is expected to increase 50% over 2008 levels by 2030 and will still reflect a heavy reliance on fossil fuels
- Use of coal will continue to grow
- Carbon dioxide releases to the atmosphere will by 2030 increase by over 50% over current levels principally as a result of economic growth in the developing countries
- Climate change policy will continue to evolve worldwide
- Nuclear energy will continue to emerge as the most viable zero greenhouse gas emissions option for producing major amounts of electric power

History of Individual Energy Consumption



A Challenging Landscape is Ahead for the Nuclear Renaissance

- Gasoline prices and electricity demand around the world are sky rocketing
- Energy security and climate change are among the most important issues facing the world today
- Nuclear power plays a vital role in meeting these challenges
- Many obstacles have been overcome but a joint effort is needed by government, industry and the financial community to make the nuclear renaissance a reality

Government-Industry Partnerships with Open Communications are Needed

- **Communication is Key**
 - We must better communicate nuclear energy's role in helping to achieve energy security & self-sufficiency
 - We must better communicate the environmental benefits of nuclear power – the only major base load energy source that is emissions free
 - We must better communicate the industry's outstanding safety record

Clear Messages are Needed

- Nuclear power is a safe source of energy
- Nuclear power is the only major base-load energy source that is greenhouse gas emissions free
- Nuclear power is an abundant source of energy
- Initial costs to build nuclear power plants are a significant yet sound investment
- Low level and high level nuclear waste can be safely managed and disposed
- Recycling is critical to the success of the nuclear renaissance

Financing Issues Must be Dealt With

- **New build is going to be expensive**
 - Regulatory process takes time and money
 - Commodities continue to increase in price
- **In the U.S. we need to fully implement the Loan Guarantee Program and reassess the Program's applicable phases**
 - Need to extend the length of the program to 2012 or beyond

Effective Nuclear Waste Solutions- Emphasis on Recycling

- We must establish confidence and develop waste sites
- In the U.S. we need to reform the DOE civilian waste program by
 - Creating a New Government Entity (NGE) to assume all DOE obligations
 - Developing public/private partnerships to build recycling facilities
 - Authorizing interim storage of SNF
- Accelerate recycling timeline by utilizing commercially available technologies which are – safe, reliable, and proliferation resistant

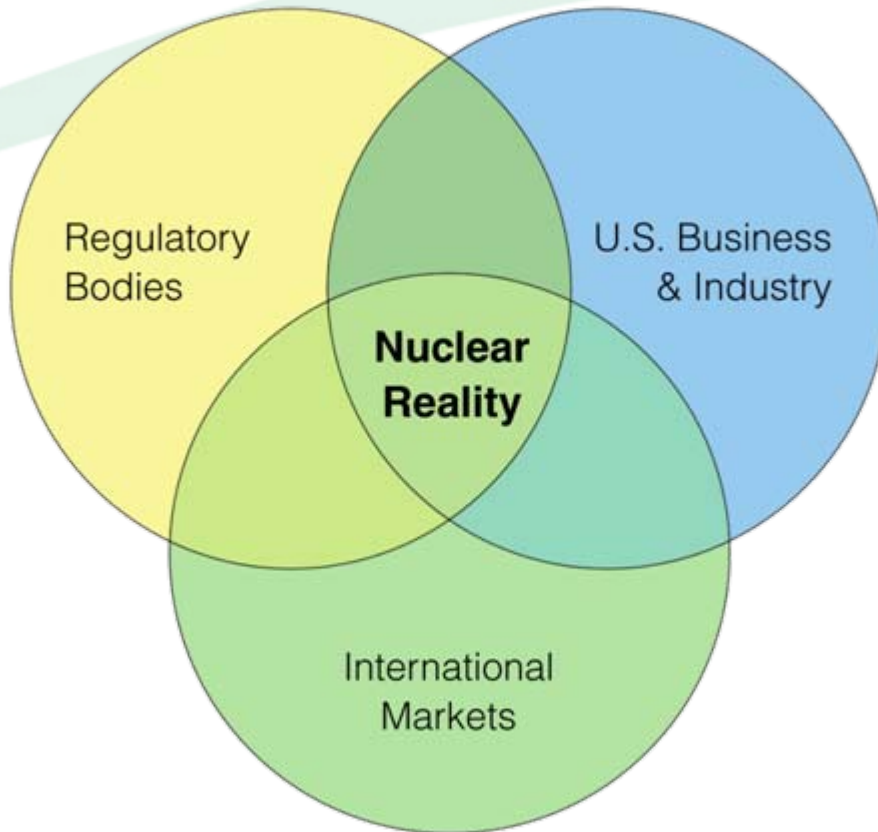
Continued Safe Management of Existing Nuclear Power Plants

- Continued safe operations at all plants are essential
- Power plants should be “energy centers” not “waste centers”
- Facilitate and expedite final power plant decommissioning

Effective and Credible Regulatory Bodies are Essential

- Properly funded regulatory bodies are essential to making the nuclear renaissance a reality
- Safety and security standards are key to public acceptance of the nuclear renaissance
- In the U.S. the NRC must revise and/or issue regulations for recycling of SNF
- Regulatory bodies must acknowledge and deal with the public concerns

Cooperation and Open Communication are the Keys to Success



GOALS:

- Energy self sufficiency
- Affordability
- CO₂ reductions to the atmosphere
- Enhanced standard of living and GDP

Success of the Nuclear Renaissance

- We must deal with public opinion and the media if we are to succeed. As Sir Winston Churchill said “There is no such thing as public opinion. There is only published opinion.”

Sir Winston Churchill

- “Success – it’s supposed to be hard; if it wasn’t hard everyone would do it. The hard is what makes it great.”

Tom Hanks

- “Success, believe it! High expectations are the key to everything.”

Sam Walton