

A Few Questions on Long-Term World Energy Supply

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Long-Term Sustainability of Nuclear Fission
Energy - Part I
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Energy Supply Questions

- What is the world petroleum supply situation?
- How secure, and how accessible is this supply?
- What can be done with renewable options, alternate fuels?
- What can we expect of world energy demand up to 2100?
- Do we need to think about the time beyond 2100?

Nuclear Energy Potential

- Is today's safety level sufficient? On what does it depend?
- Can we install capacity to replace most oil/gas usage?
- Are there sufficient plant sites available?
- Should we build large energy centers?
- How about distribution of the products?
- Do we have enough fuel (uranium and thorium)?
- Do we have (or can we produce) enough fissile isotopes?
- Can we manage the waste products?

Additional Technologies Needed?

- Reprocessing
- Waste Management
- Fuel Sources
- Recyclable nuclear stations?

Institutional Questions

- Can (will) the international community control fissile material possession and use?
- Can the world users of nuclear energy extend their cooperation beyond IAEA, and learn to co-operate plants?
- Who can afford nuclear energy? What about those who cannot?
- Can we make petroleum cheap again?