Department of Nuclear Energy

For TC Europe
Vienna – 29 May 2009

Alan McDonald
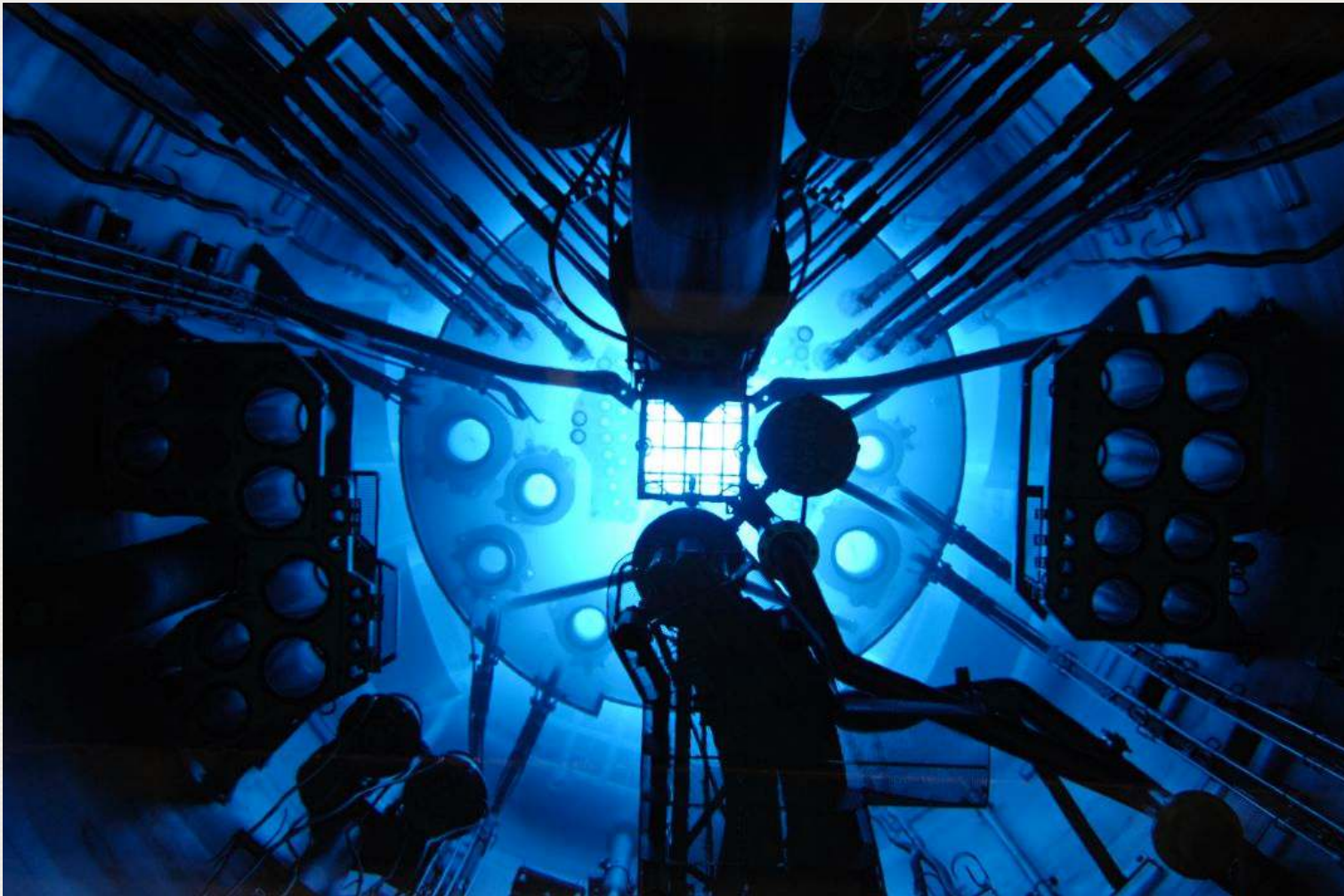
IAEA
International Atomic Energy Agency

Dept. of Nuclear Energy

- "The Agency shall seek to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world."
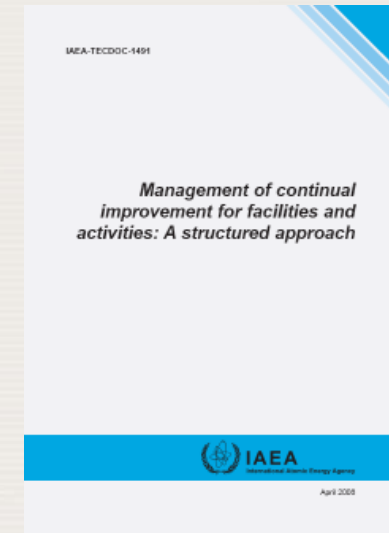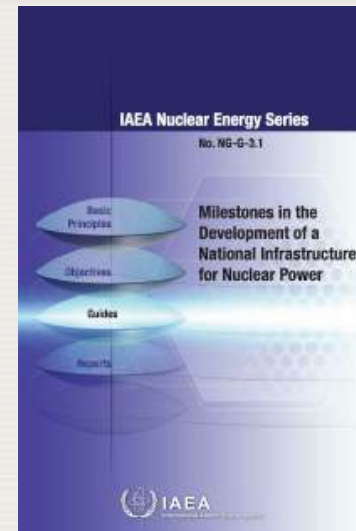
IAEA

Nuclear Power

Research Reactors

Waste: technical incl. non-power

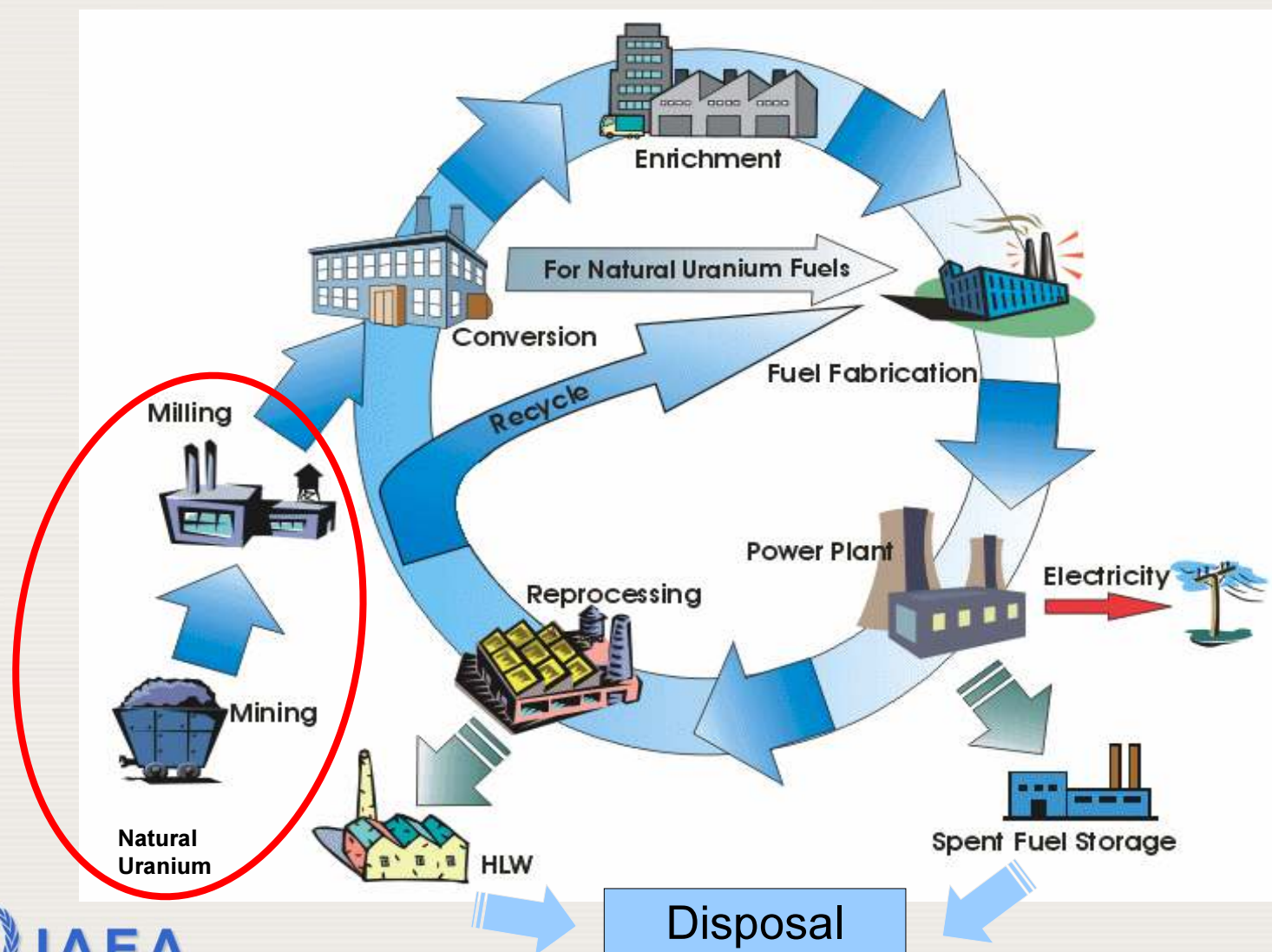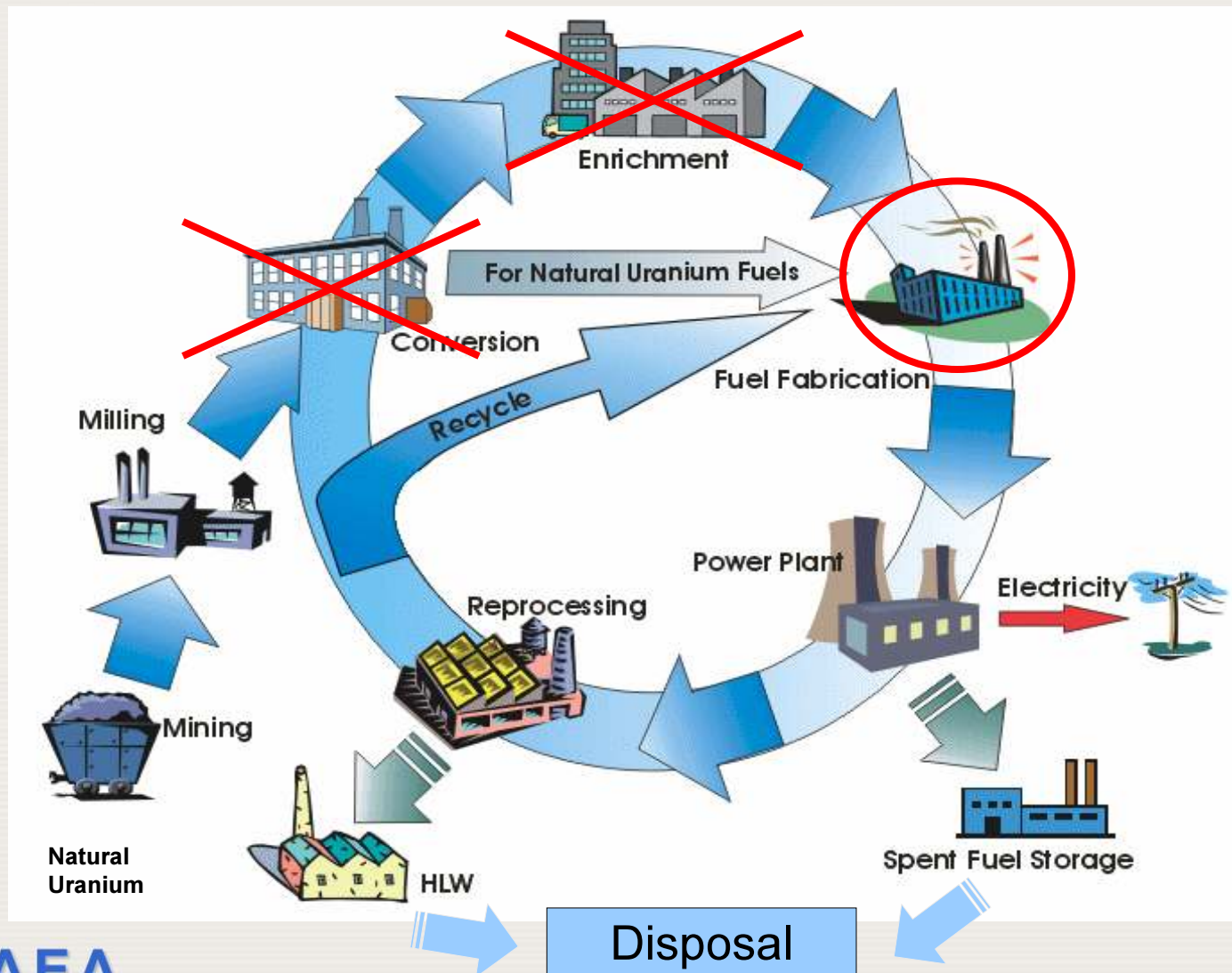# Planning, Information, Knowledge

Products

Planning, Information, Knowledge

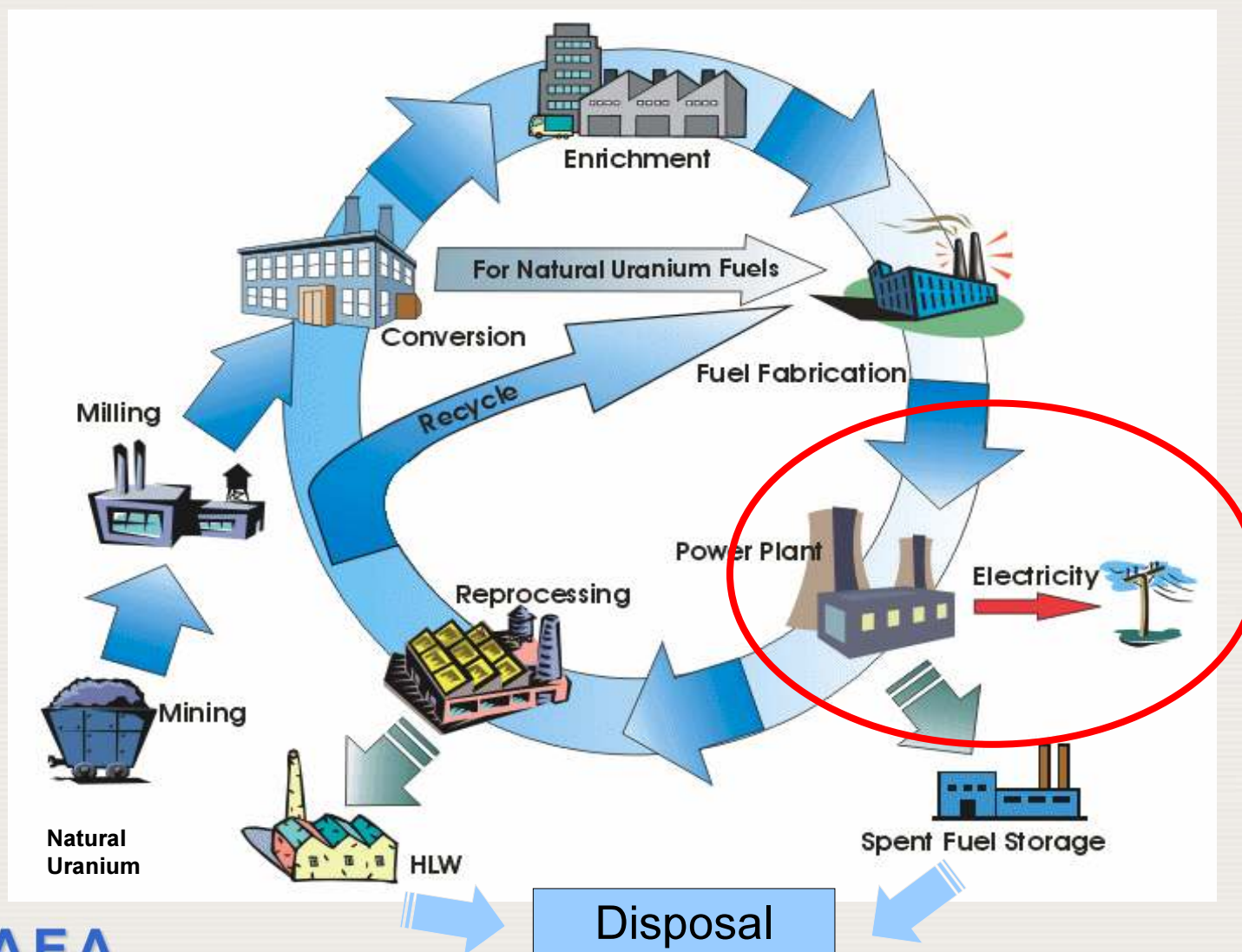# Nuclear Fuel Cycle

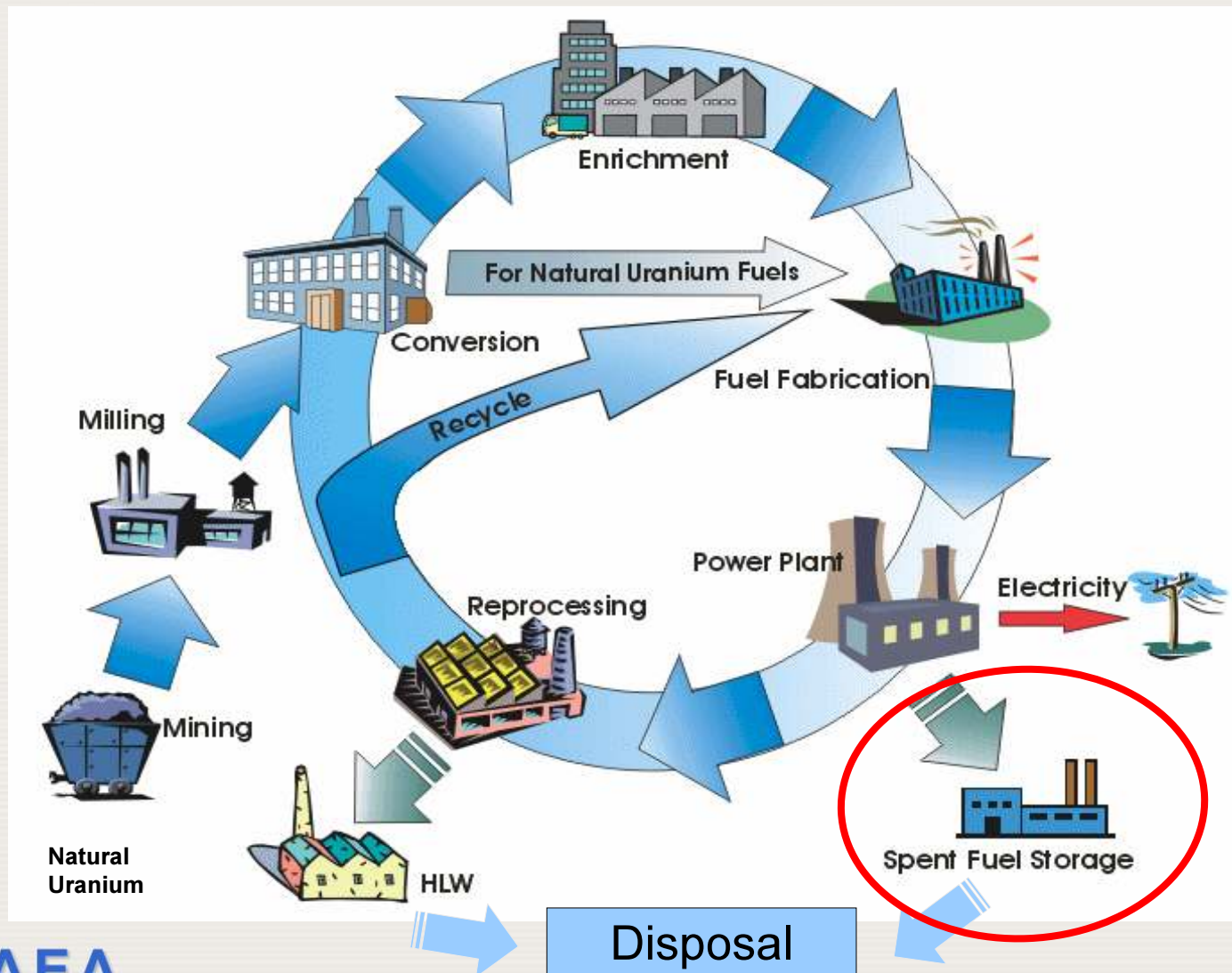# Nuclear Fuel Cycle

Nuclear Fuel Cycle

Milestones

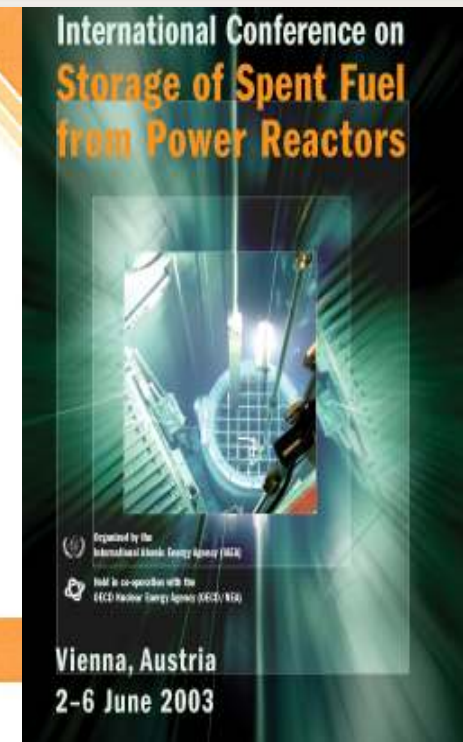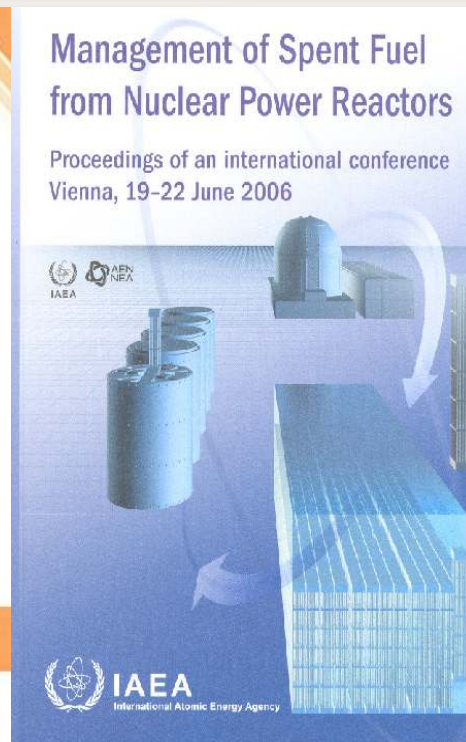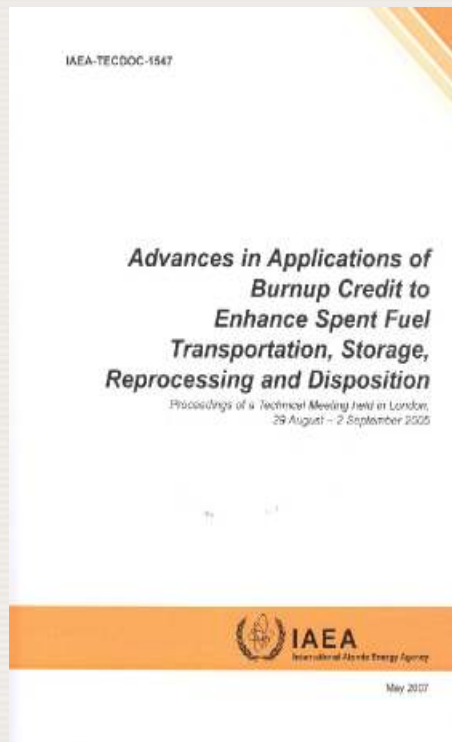| Issues	Ready to make a knowledgeable commitment to a nuclear programme	Ready to invite bids for the 1st nuclear power plant	Ready to commission and operate the 1st nuclear power plant
1.			
…			
19.			

Issues

- National position
- Nuclear safety
- Management
- Legislative framework
- Regulatory framework
- Financing
- Human resource development
- Safeguards
- Security and physical protection

- Emergency planning
- Radiation protection
- Nuclear fuel cycle
- Nuclear waste
- Environmental protection
- Site and supporting facilities
- Industrial involvement
- Procurement
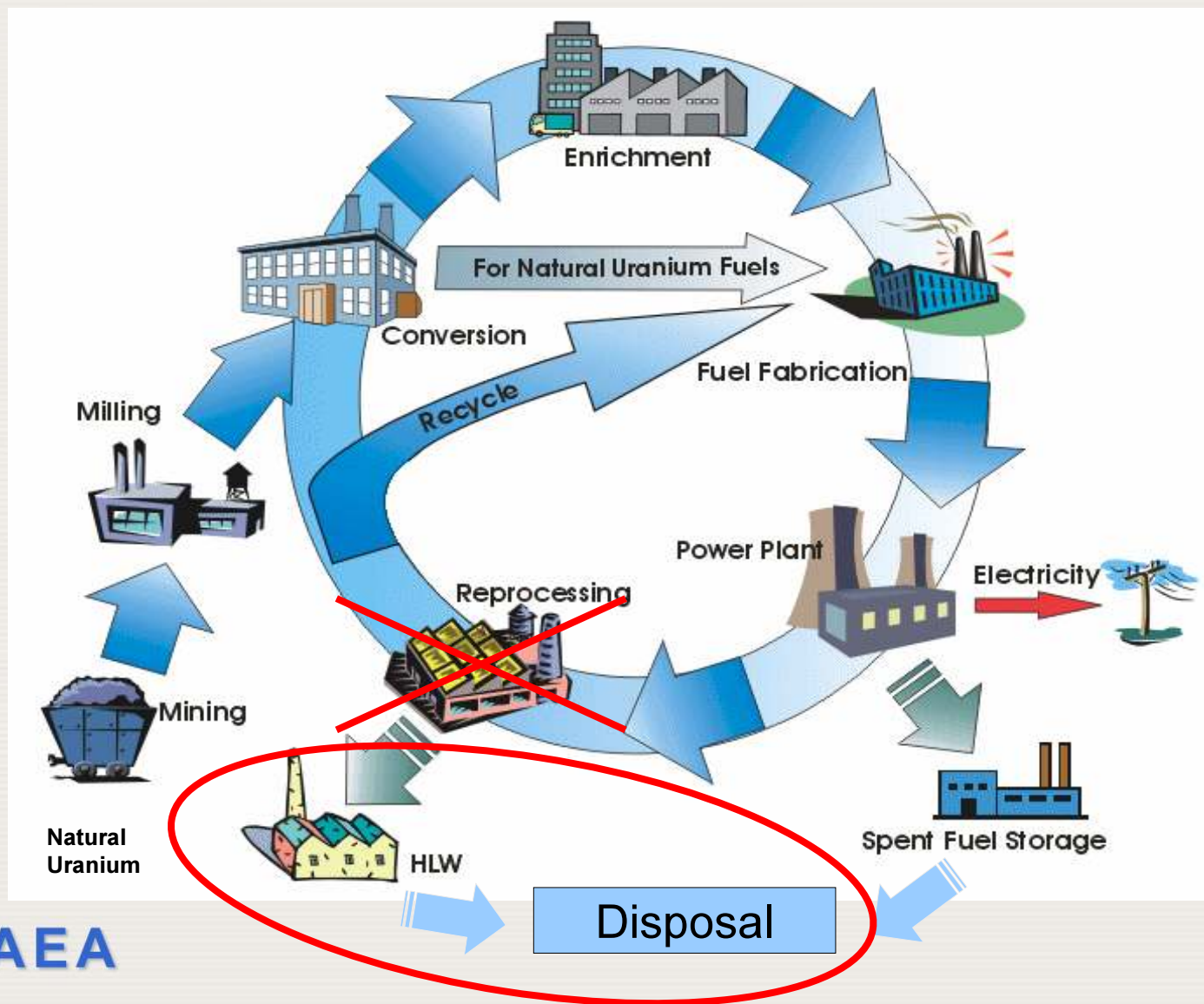- Electric grid
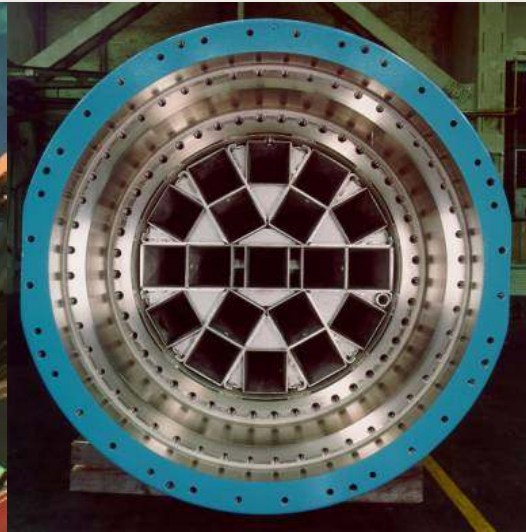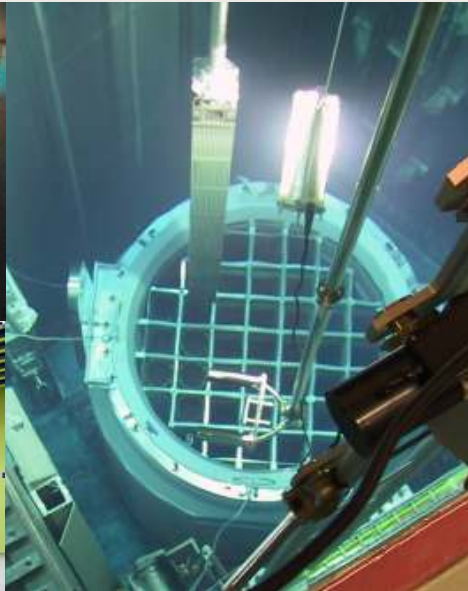- Stakeholder involvement

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Nuclear Fuel Cycle

Spent Fuel

Nuclear Fuel Cycle

Spent Fuel

Deep geological disposal

Recovery of cobalt source, Thailand

Borehole disposal (BOSS)

Research reactor fuel repatriation

IAEA

…atoms for peace.