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ANNEX 1

Update of the Nuclear Illustrative Programme in the context of the second Strategic Energy Review

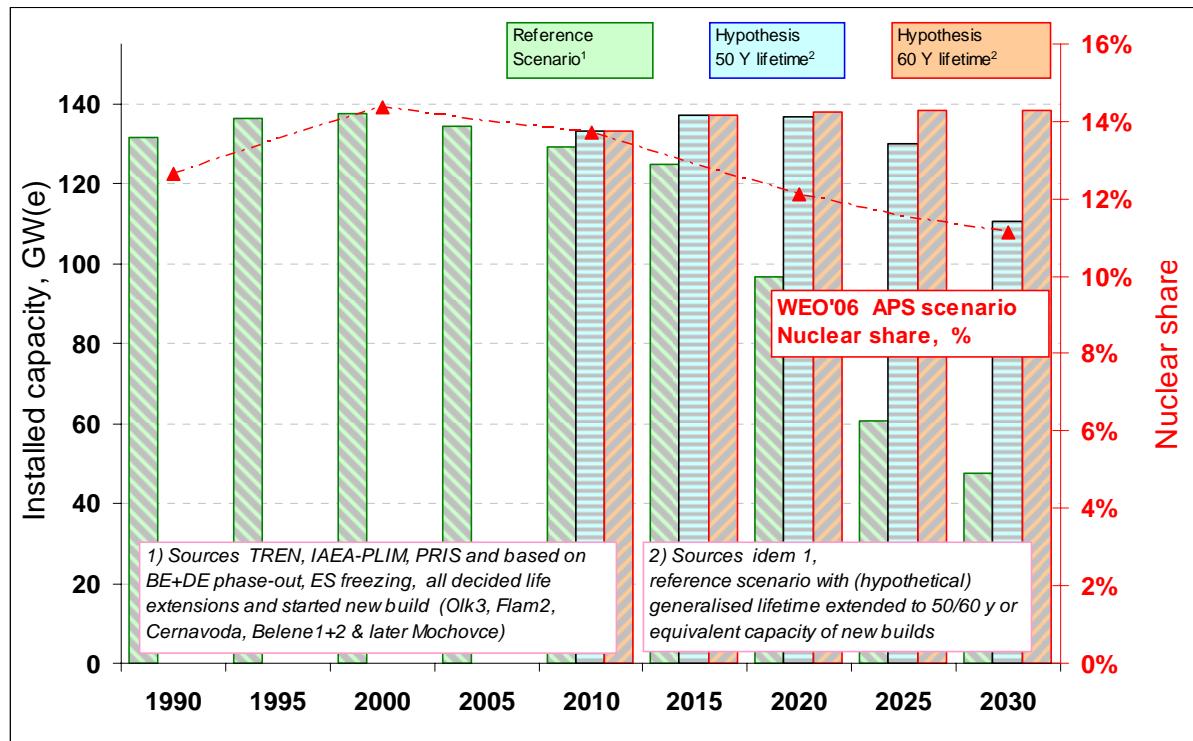


Fig 1: Calculated decrease of nuclear power capacity, in line with the current lifetime information.

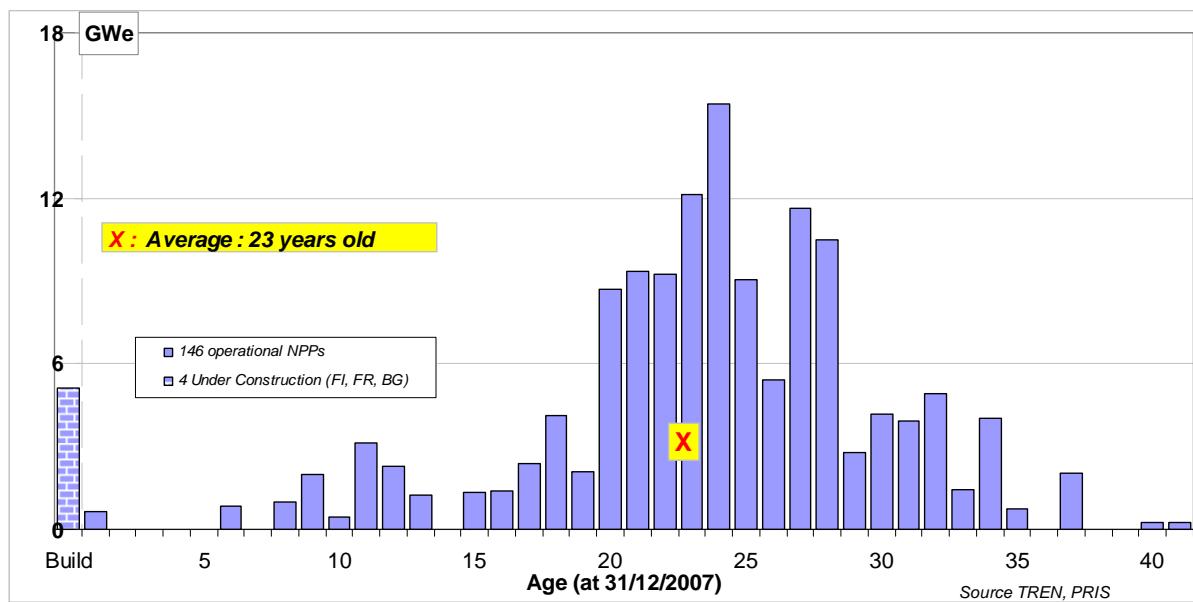


Fig 2: Total capacity of Plants under construction & operational vs. age (31/12/2007).

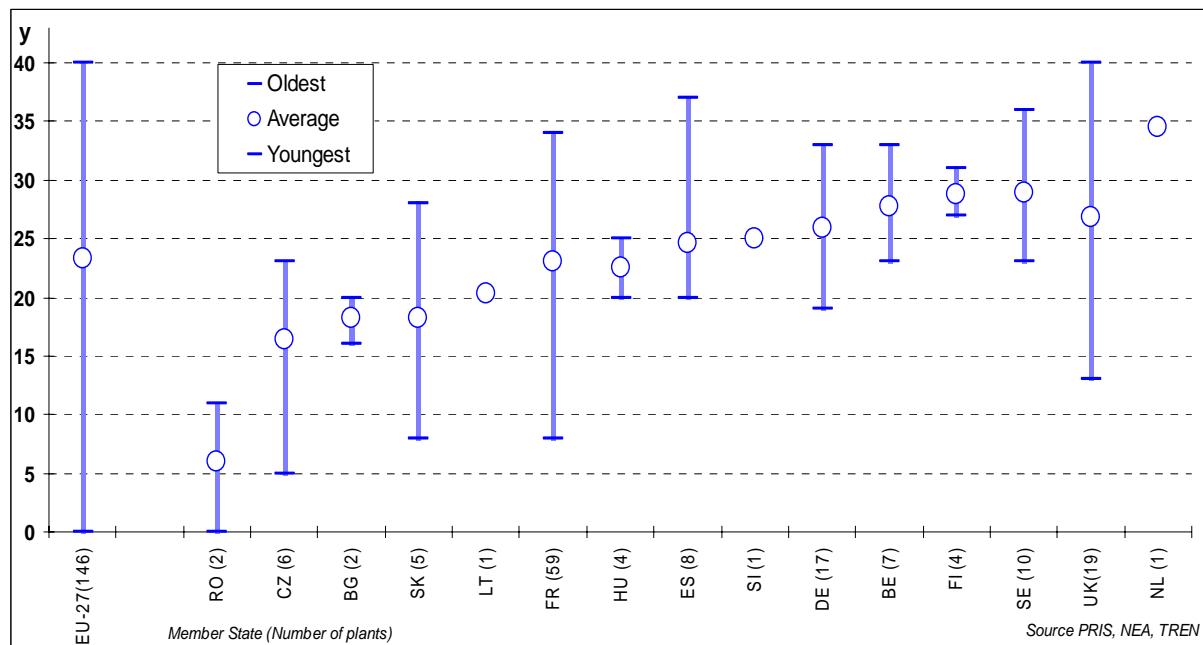
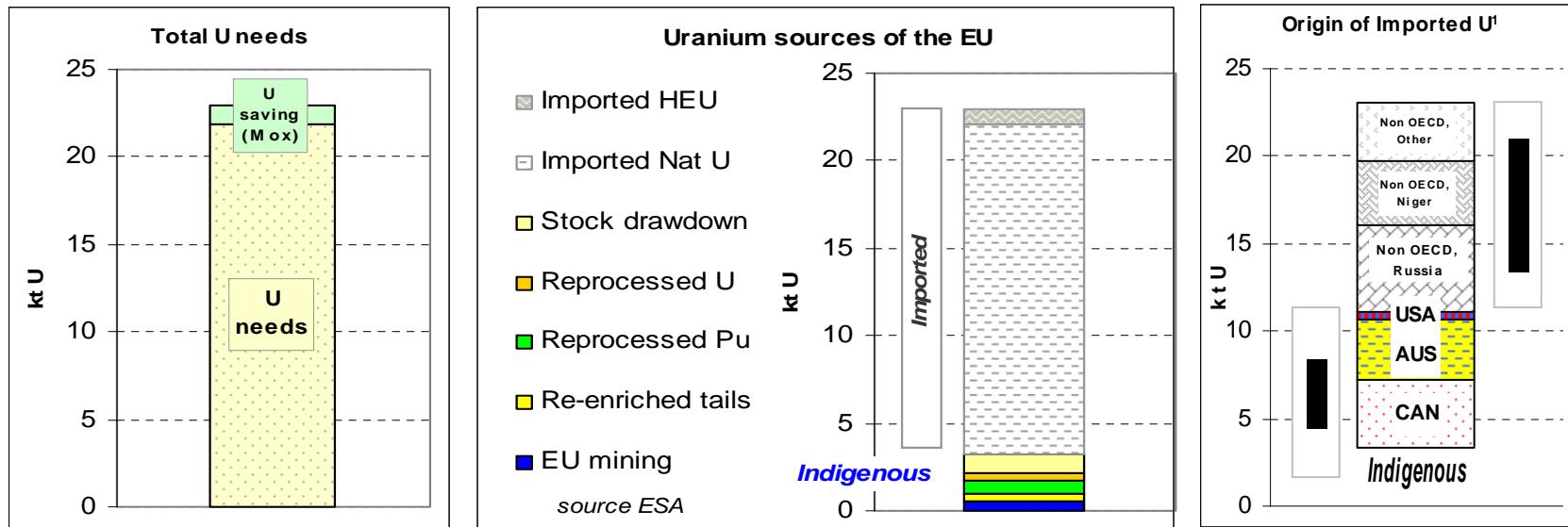
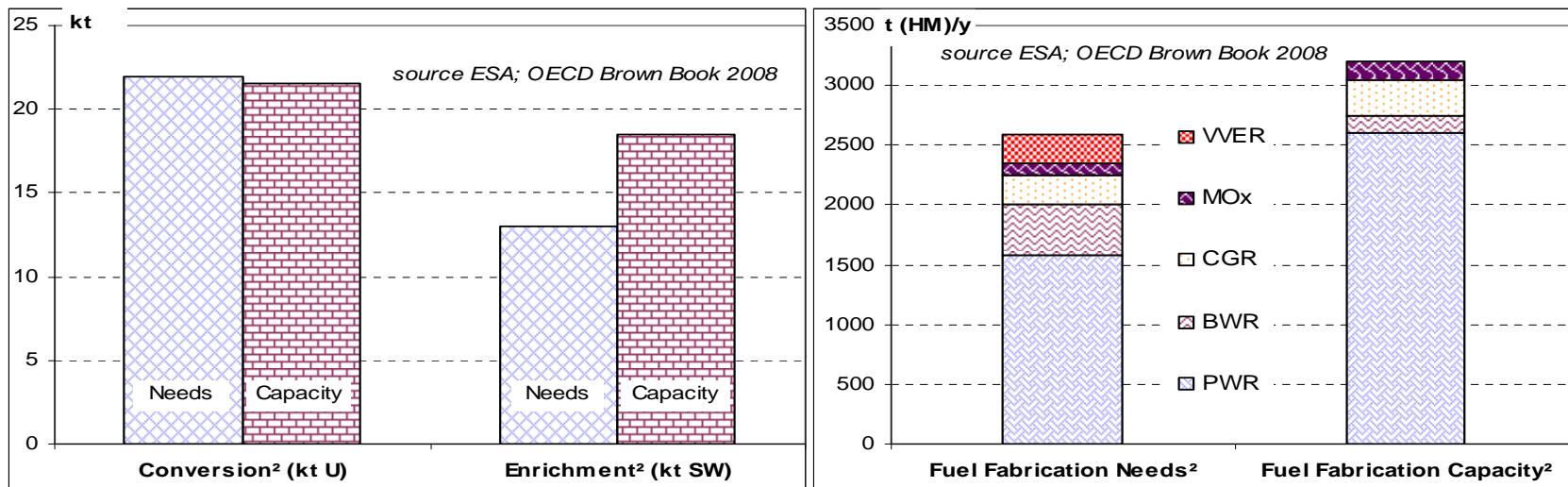


Fig 3: Age distribution of operational NPPs in the EU (31/12/2007).



¹ Share of the EU based companies in the global production of U represents about 67% of the 2007 needs of the EU (from WNA, ESA)



² The announced investments in the fuel cycle (conversion, enrichment & fabrication) will maintain the European capacities for the whole fuel cycle, in the upper demand case for 2020, except for the limited VVER fabrication market which is likely to remain 100% Russian.

Fig 4: Current annual fuel needs and related covered capacities in the EU.

List of Abbreviations

| | |
|-----------------|--|
| AES-92 | Recent Russian designed Pressurized water reactor |
| APS | Alternate Policy Scenario (WEO) |
| CANDU | CANada Deuterium Uranium design reactor |
| CO ₂ | Carbon Dioxide |
| CSC | Convention on Supplementary Compensation for nuclear damage. |
| EDF | Electricité de France |
| ELINI | European Liability Insurance Industry |
| EMANI | The European Mutual Assurance for the Nuclear Industry |
| ENEF | European Nuclear Energy Forum |
| EPR | European Pressurised Reactors |
| ESA | Euratom Supply Agency |
| EU | European Union |
| EUR | European Utilities Requirements for Nuclear Safety |
| GEN IV | Generation IV Reactors are nuclear reactor designs currently being researched. |
| GWe | 1000 Megawatts of electrical power |
| HEU | Highly Enriched Uranium |
| IAEA | International Atomic Energy Agency |
| IEA | International Energy Agency (OECD) |
| MDEP | Multinational Design Evaluation Programme |
| MOX | Mixed Oxide Fuel |
| NDA | Nuclear Decommissioning Authority |
| NEA | Nuclear Energy Agency (OECD) |
| NPP | Nuclear Power Plant |
| NPT | Nuclear Non-Proliferation Treaty |
| OECD | Organisation for Economic Cooperation and Development |
| PLIM | Plant Life Management (IAEA) |
| PRIS | Power Reactor Information System (IAEA) |
| PRIMES | Energy system model supported by a series of research programmes of the European Commission |
| PWR | Pressurised Water Reactors |
| SW | Separative Work (enrichment) |
| TEN | Trans European Networks |
| WEO | World Energy Outlook (IEA two year publication) |
| WNA | World Nuclear Association |
| WENRA | Western European Nuclear Regulators' Association |
| VVER | The Russian abbreviation VVER stands for water-cooled, water-moderated energy reactor. Russian version of PWR reactor. |

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- (4) Fig 4: Current annual fuel needs and related covered capacities in the EU.