

**Comitato
per una Civiltà dell'Amore**

ASSISI

24th February 2026

***FROM NUCLEAR CONVERSION
TO A CIVILIZATION OF LOVE***

Energy for sustainable life



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- **1 kg of U235 or plutonium is equivalent to:**
- **2,000 tonnes of fuel oil**
- **600 tonnes of H2**

1 kg of U235 occupies a volume of 50 cm³.

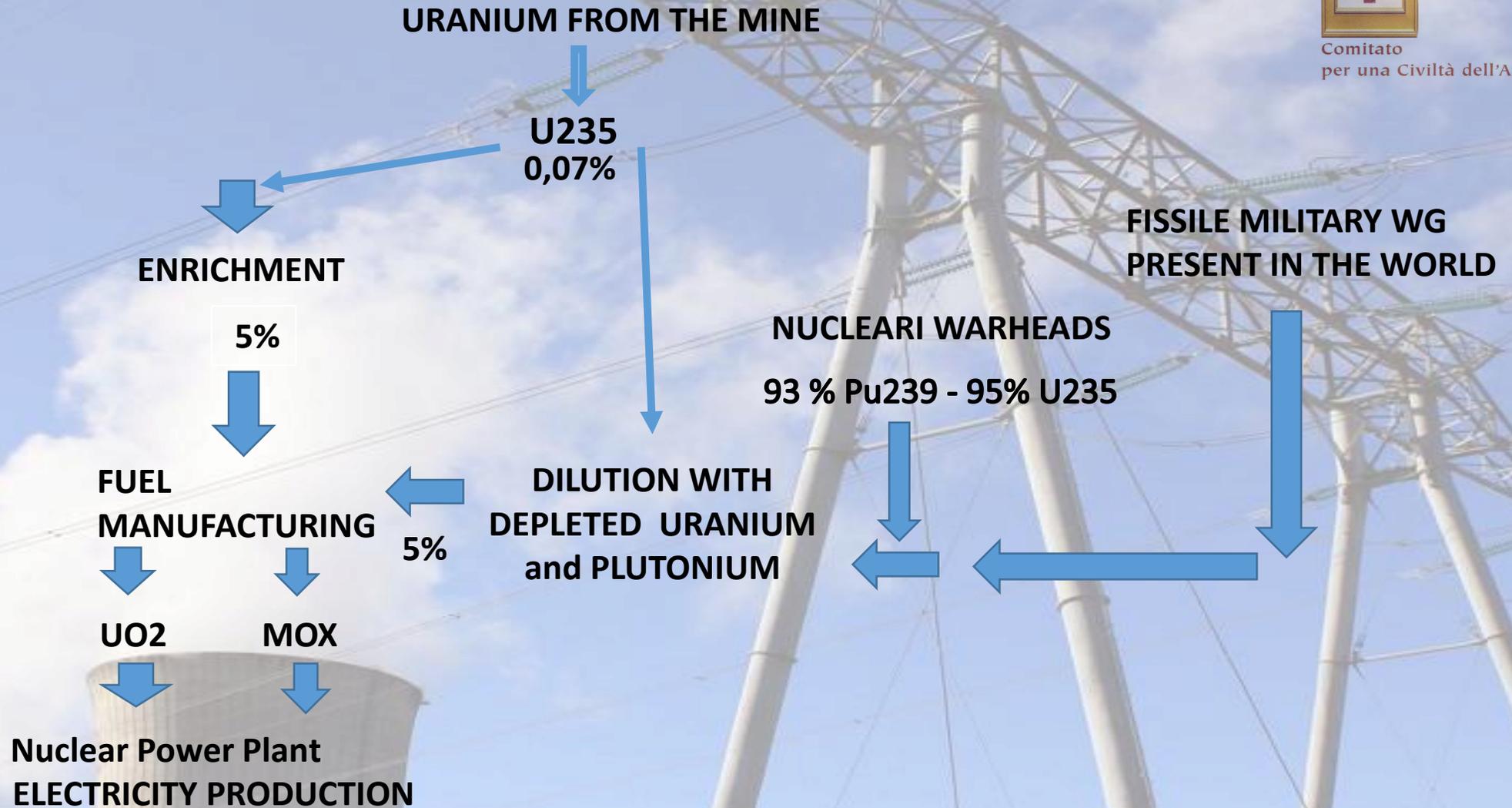
- **2,000 tonnes of fuel oil occupy a volume of 2,000 m³.**
- **600 tonnes of H2 occupy a volume of 7 million m³ of gas.**

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Nuclear power – safety and the environment



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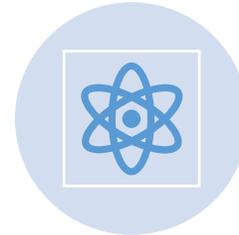
Conversion of military fissile materials



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Electricity generation and economic revenues



The US-Russia Megatons to Megawatts M2M Plan involving 500 MT of HEU (U-235 highly enriched to 93%) generated 6,500 TWh.



Today, the quantities of military fissile U-235 and Plutonium-wg present in the relevant warehouses around the world and in the 13,000 nuclear warheads amount to a total of 1,630 MT (of which 205 MT is Pu and 1,425 MT is HEU Uranium).



These quantities, compared proportionally to the 500 MT of the M2M Plan, can generate 21,190 TWh, corresponding to a value of approximately \$5.297 billion (average price \$0.25/KWh).



Per la eliminazione nei reattori delle 205 MT di Plutonio WG da cui si ottengono 2.665 TWh per un valore di almeno 667 MLD\$ va tenuto conto dei costi (valutabili 2,5 Milioni\$/ton HM) della sua fabbricazione come combustibile MOX (al 7% di Pu) pari a 7,3 MLD\$

MEGATONS TO MEGAWATTS:

GROUND BREAKING TREATY FOR DISARMAMENT

Russian nuclear material equivalent to 20,000 warheads supplied 10% of U.S. electricity from 1993-2013



Conversion of military fissile materials and reprocessing



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Advantages



1 – Nuclear warheads and the proliferation of plutonium from current reactors are effectively eliminated forever, with no possibility of recovery.



2 – Electricity is obtained at lower costs as the costs of extraction from mines and enrichment of Uranium 235 for commercial fuel that uses only natural Uranium are reduced.



3 - Military uranium can also be diluted with depleted uranium present in treatment plants, reducing their maintenance and storage costs and reducing the military use of such depleted uranium.



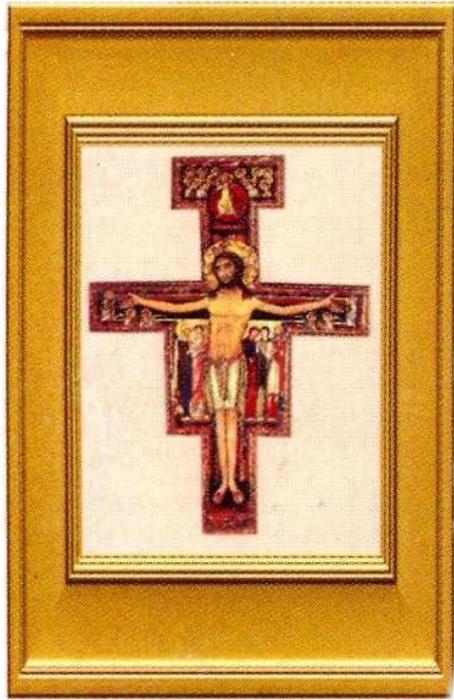
4 - Using uranium and plutonium from nuclear warheads, electricity can be generated for years, both nationally and globally.



5 - This prevents millions of tonnes of CO2 from being emitted into the environment each year.



6 – With a portion of the economic savings, a sustainable economy is created and increased in developing countries, avoiding the tragedy of forced emigration due to poverty.



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Thank you!

Angelo Papa, engineer