

## LOW-ENRICHED URANIUM (LEU) BANK TO BE ESTABLISHED IN KAZAKHSTAN

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On August 27, 2015, the Ambassador of Kazakhstan to Turkey, H.E. Canseyit Tüymebayev organized a press meeting at his embassy in Ankara to inform the public that Kazakhstan signed an agreement with the International Atomic Energy Agency (IAEA) on establishing an international low-enriched uranium (LEU) bank in 2017.[\[1\]](#) The IAEA LEU Bank, which is supported by the five permanent members of UN Security Council (China, France, Russia, UK and the USA), the EU, Norway, Kuwait, the UAE, will be located at the Ulba Metallurgical Plant (UMP) in Oskemen in north-eastern Kazakhstan. Ulba Metallurgical Plant (UMP) is a licensed nuclear site with complete infrastructure to safely and securely store, transport and process the LEU.[\[2\]](#)

For decades, nuclear energy has played a significant role in producing electricity and nuclear fuel in developed countries. Low-enriched uranium (LEU) is the most used type of ingredient worldwide because it has huge capacity in the production of nuclear fuel which can supply large cities with energy for years. Some analysts argue that, LEU is considerably less radioactive than natural uranium but still extremely hazardous in granulated form product of the shearing action that makes it useful for armor-penetrating weapons and radiation shielding.[\[3\]](#) Although, low enriched-uranium is an essential element for producing energy, it is also a critical component for both civil nuclear power generation and military nuclear weapons. Consequently, LEU resources are subject to the IAEA regulations in order to prevent production of highly enriched uranium.[\[4\]](#)

The IAEA is establishing the LEU Bank with the commitment of reducing the risk of nuclear proliferation. Establishment of the bank also is the result of global efforts to create an assured supply of nuclear fuel to countries in case of interruption of the open market or of other supply arrangement for LEU.[\[5\]](#) Furthermore, in order to control it the member states of the bank should give the assurance that it may only be used to make fuel for power reactor and may not be used to make any nuclear weapon or explosive devices for any military purpose.[\[6\]](#)

The fuel bank, which is a physical reserve of up to 90 metric tons of low enriched uranium [\[7\]](#) suitable to make fuel for a typical light water reactor, will be available to IAEA member states when they find themselves unable to obtain LEU on the commercial market. Ever

then members demands LEU from the bank they should ensure a set of the IAEA's criteria such as, the member's supply of LEU must be disrupted; the state must be unable to secure LEU from the commercial market, state-to-state agreements or other such means; and the state must have in place, and be in compliance with, a comprehensive safeguards agreement with the IAEA.[\[8\]](#)

The LEU that will be stored in IAEA LEU Bank will be enriched up to 4.95%[\[9\]](#) which is enough to make fuel for light water reactor. LEU Bank will be safe and secure. Safety and security of the Bank will be governed by Kazakhstans legal and regulatory requirements but it is owned and controlled by the IAEA. The IAEA has chose Kazakhstan for this due to it has 60 years of proven experience in civil nuclear fuel supply and a modern infrastructure.[\[10\]](#) Moreover, Kazakhstan has big effort in promoting nuclear security and non-proliferation. The country became a part of the Treaty on the Non-proliferation of Nuclear Weapons (NPT) and the Comprehensive Nuclear Test Ban Treaty (CTBT) in 1992 and also signed an Additional Protocol with the IAEA in 2004 and is a member of the Nuclear Suppliers Group. This background of Kazakhstan is considered as enough for giving trust to the member states.[\[11\]](#)

The IAEA LEU Bank is funded by voluntary contributions including \$50 million from the US-based Nuclear Threat Initiative (NTI) organization, \$49 million from the USA, up to \$25 million from the European Union, \$10 million each from Kuwait and the United Arab Emirates and \$5 million from Norway.[\[12\]](#)

In conclusion, in the light of the Kazakhstans historical background in nuclear issues, it is possible to say that the country could manage to provide the security of the bank and ensure preventing undesired biological, ecological and economical damages. Also, by keeping uranium under control with the help of the Bank, the IAEA would be able to ensure nuclear nonproliferation.

[\[1\]](#) Kosolapova, E., Int'l Low-Enriched Uranium Bank to be Established in Kazakhstan, August 14, 2015, Retrieved Date: August 20, 2015, from <http://en.trend.az/casia/kazakhstan/2424393.html>

[\[2\]](#) FACT SHEET- The IAEA LEU Bank Assuring a supply of low enriched uranium (LEU) for Member States, Retrieved Date: August 20, 2015, from [https://www.iaea.org/OurWork/ST/NE/NEFW/Assurance-of-Supply/documents/Factsheet\\_LEU\\_Bank.pdf](https://www.iaea.org/OurWork/ST/NE/NEFW/Assurance-of-Supply/documents/Factsheet_LEU_Bank.pdf) .

[\[3\]](#) Edwards, G., URANIUM: Known Facts and Hidden Dangers, 1992, Retrieved Date: August 20, 2015, from <http://www.ccnr.org/salzburg.html> .

[4] International Atomic Energy Agency, Atoms For Peace, Retrieved Date: August 20, 2015, from <https://www.iaea.org/> .

[5] op.cit.

[6] FACT SHEET- The IAEA LEU Bank Assuring a supply of low enriched uranium (LEU) for Member States, Retrieved Date: August 20, 2015, from [https://www.iaea.org/OurWork/ST/NE/NEFW/Assurance-of-Supply/documents/Factsheet\\_LEU\\_Bank.pdf](https://www.iaea.org/OurWork/ST/NE/NEFW/Assurance-of-Supply/documents/Factsheet_LEU_Bank.pdf) .

[7] op.cit.6

[8] International Atomic Energy Agency, Atoms for Peace, Retrieved Date: August 20, 2015, from <https://www.iaea.org/> .

[9] op.cit.6

[10] Aljazeera, Kazakhstan: The Model of Nuclear Disarmament, February, 2014, Retrieved Date: August 20, 2015, from <http://www.aljazeera.com/indepth/opinion/2014/02/kazakhstan-model-nuclear-disarma-20142142092967469.html> .

[11] NTI, Profile for Kazakhstan , June 1, 2015, Retrieved Date: August 20, 2015, from <http://www.nti.org/country-profiles/kazakhstan/>.

[12] op. cit.

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