**UNDP Uzbekistan**

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**Title of the trip/mission:** Participation in workshop “Biogas Units for Farms in Uzbekistan” conducted by the Namangan Institute of Engineering Technologies, GEF SGP and the LED project and site visit to biogas unit installation in Namangan

**Trip/mission member(s):** Mr. Pulat Salikhov, Specialist on Renewable Energy Sources

Ms. Ekaterina Biryukova, AFA

**Destination:** Tashkent-Namangan-Tashkent

**Dates:** February 17-18, 2015

**Source of funding:** UNDP (TRAC)

**Please summarize main purpose of the visit and activities completed**

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| Visit to biogas unit (BGU) pilot site has been implemented in accordance with the approved APA for Y2015. The main objectives of the visit were as follows:1. Visit a newly installed and launched biogas unit in Namangan;
2. Contribute to a workshop “Biogas Units for Farms in Uzbekistan” conducted by the Namangan Institute of Engineering Technologies, GEF SGP and the LED project for farmers of Namangan and Andijan provinces and dissemination of LED project promo materials among the audience;
3. Bring the trained farmers to the «Ulugbeklar» farm located at makhalla Chust-Kuprik, Turakurgan district, Namangan province to demonstrate the operational biogas unit.

The project team arrived to Namangan on 17 February 2015, in the late afternoon and checked the arrangements to the workshop – readiness of conference hall, lunch venue and the BGU pilot site in Turakurgan district. The project team hanged out their banners and provided their promo materials relevant to renewable energy sources.The training workshop was conducted on 18 February 2015 jointly with the Namangan Institute of Engineering Technologies (NIET), GEF SGP and the LED project for farmers and local authorities (khokimiyats) of Fergana valley. Mr. Aleksey Volkov, GEF SGP Coordinator informed the audience on different projects implemented within the Small Grant Programme and focused at zero tillage, drip irrigation, laser planning of lands, etc. Mr. Pulat Salikhov, LED project Specialist on Renewable Energy Sources presented the ways on how to increase energy efficiency in rural houses, and principles of solar greenhouse functioning. A video that instructed on how to install and assemble modern thermal insulation materials in a rural house was of the great interest of trainees. Ms. Zulfiya Mamadalieva and Ms. Elena Tadaeva, researchers of Namangan Institute of Engineering Technologies presented basics of BGU installation and exploitations to the audience. Together with Makhmujon Kodirov, the owner of the “Ulugbeklar” farm and chief engineer, they represent the implementation unit of the BGU project in Turakurgan. The workshop participants were very interested to learn in more details about practical outputs of BGU, including bio-fertilizers as by-products of biogas production that can increase soil productivity up to 50%, as well as utilization of produced gas for heating, cooking and even lighting needs. The presented basics were illustrated by the filed visit to the recently installed and currently operational BGU at the “Ulugbeklar” farm located in Turakurgan district, Namangan province. The participants could see 2 big methane tanks (one for livestock manure and another for biomass) andother BGU component, as well as production of methane. The participants had a chance to ask their particulate questions to Mr. Makhmujon Kodirov, the owner of the “Ulugbeklar” farm and chief engineer of the BGU.  |

**Please provide a brief description of next steps / follow up actions**

* Project will continue raising awareness of farmers and representatives of local khokimiyats regarding increase in energy efficiency in rural houses and greenhouses, available modern thermal insulation materials and their cost, throughout Uzbek provinces;
* Project will continue tracking of interests expressed by farmers and local authorities in installation of BGUs and monitoring progress and undertakes evaluation of any relevant successful/failed cases;
* Project will contribute to the events aimed at farmers, local authorities, students mass media and general public to be conducted by the Extension Center Promotion in Urgench.

**Information / Learning materials / Useful links available at:**

[www.leds.uz](http://www.leds.uz);[www.KRASS.uz/EC](http://www.KRASS.uz/EC); [www.urdu.uz/](http://www.urdu.uz/)[rsr.akvo.org](http://www.akvo.com)

http://leds.uz/ru/events/1029

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