Climate change mitigation actions in construction sector.
Energy efficiency in Uzbekistan.

Head of Housing-Communal Economy
Ministry of Economy of the Republic of Uzbekistan
Mr.G.Djamalov
Energy saving actions taken under the UNDP Technical Assistance (best practices)
Location of 8 pilot energy efficient public buildings – partner the State Architecture and Construction Committee

- Rural medical center «Dehibaland», Navoi province
- School №35, Navoi province
- Rural medical center «Oktepa», Tashkent province
- School №5, Karakalpastan
- New school №54, Navoi province
- School №20, Kashkadarya province
- School №2, Fergana prov.
- New school №39, Andijan province

2,100 teachers and pupils
19,400 patients
Energy efficient green rural houses

3 standard projects were reviewed and approved for 3, 4 and 5-room houses including application of energy saving solutions (2-level of heat protection).

- Payback period - up to 5.7 years
- Power consumption and greenhouse emission reduction - more than 50%

Designed and built 1 pilot 4-room house including application of energy saving actions and ВИЭ. (3-level of heat protection).

- Power consumption and greenhouse emissions reduction - 54,6%
- Payback period - 6.3 лет
Multistoried houses in the Republic of Uzbekistan

Total multistoried houses (4-18 floor): 18,492
including brick: 6,820; ferro-concrete: 11,672
The total primary energy consumption in 2013 in Uzbekistan was 47.8 mln tons equivalent of which the largest share is natural gas - 85% (40.7 mln.tons.equivalent.)

It is expected to implement up to 40% of expected volume of energy saving as a result of implementation of programs on modernization of power sector and other sectors of industry.
Estimated saving of primary energy resources in condition of integrated application of all energy saving actions in most energy consuming sectors of economy of the whole country might make in 2013 from 14 to 19 mln. tons equivalent or estimated from 16 to 21 bln. cubic. meters of natural gas, which is equal to annual consumption of natural gas in 2013 from 3 to 5 European countries.
Goal: promotion and development of program approach – i.e. coverage of all particular facilities in Uzbekistan (or in selected provinces) – for implementation of energy saving reorganization, as well as search of appropriate financing NAMA

Coordination of approach with Government bodies of Uzbekistan

Presentation of NAMA to secretariat of РКИКа and investors

«Reduction of greenhouse emissions during operation of buildings»
Efficiency of NAMA application

- Improvement of living conditions of population.
- Energy saving and reduction of greenhouse emissions
- Transfer of technologies to local organizations involved in energy saving and buildings reorganization.
  - In case of mass application of technologies and successful application of NAMA in the whole sector – «green growth», which will promote:
    - development of the whole system of suppliers and implementation of energy saving materials,
    - creation of new workplaces for qualified staff
    - Indirect development of other related sectors.
- Improvement of international image of Uzbekistan (favorable international positioning of the country).
Works performed by the Ministry of Economy of the Republic of Uzbekistan and the consulting company of the «German Institute of Economic Researches» - DIW econ concerning NAMA

Memorandum of Understanding was signed with consulting company «German Institute of Economic Researches» - DIW econ

Goal of the Memorandum – development of cooperation in application of energy saving technologies in existing buildings of Uzbekistan due to implementation of pilot/demonstrative projects.

Workshops carried out: «Energy saving modernization of buildings», «Policy and best practices of use of renewable sources of energy in housing sector».

Development of buildings re-organization concept in Uzbekistan for multistoried houses.

Goal of the concept – practical implementation of reorganization of multistoried houses.
«Road map» for NAMA implementation

Implementation of demonstrative «pilot» reorganization of 2 multistoried 4- (brick and panel) and 9- (panel) floor residential houses in Tashkent city (at the expense of grant funds)

Determine the actions on review of legal acts on construction and design of multistoried residential houses, application of new technologies and construction materials

Completion of the Reorganization concept taking into account practical experience and development of draft Program on implementation of reorganization including determining exact sources of financing

National proverb: «A picture paints a thousand words»
THANK YOU FOR ATTENTION!