

# Mitigating Climate Change through Attracting Foreign Direct Investment in Advanced Fossil Fuel Technologies



*A project financed from the United Nations Development Account*

# Background

- Approved by UN General Assembly for 2010-12
- Purpose: to assist countries in overcoming the lack of investment in a cleaner electricity production
- Executing agencies: UNECE, in cooperation with UNCTAD and ESCAP
- 9 countries covered: Afghanistan, China, India, Kazakhstan, Kyrgyzstan, Mongolia, Tajikistan, Ukraine, and Uzbekistan
- The project combines three elements:
  - Mitigating climate change
  - Advanced fossil fuel technologies
  - Attracting foreign investments

# Advanced fossil fuel technologies

- Pre-combustion technologies
  - Underground coal gasification (UCG)
  - Conventional coal gasification
  - Liquefaction: Fischer-Tropsch process
- Combustion technologies
  - Supercritical & Ultra-supercritical Technology (SCT and USCT)
  - Fluidized bed combustion (FBC)
  - Combined cycle gas turbine (CCGT),
  - Integrated gasification combined cycle (IGCC)
  - others
- Post-combustion technologies
  - Carbon capture and storage

# What does the project have with energy efficiency?

- An effective way to decrease GHG emissions: replace obsolete fossil fuel power plants with more efficient ones.
- Improving the efficiency of electricity generation (“upstream” efficiency) is one of the low-hanging fruits of the climate change mitigation.
- Improving “upstream” efficiency has not received the attention it deserves.
- This is unfortunate because any investment in improving the efficiency of fossil fuel-fired electrical power plants has a positive domino effect that enables us to reap huge climate change benefits along the value chain of electricity generation, transmission, distribution and consumption.

# Project activities and outputs

- National "baseline studies"
  - Purposes: Fact finding, needs assessment, overview on relevant government actors
  - Undertaken by national consultants, guided by international consultant
- Synthesis report
  - Comparative analysis of "baseline studies"
  - Injection of global best practices
- Regional workshops in China, Central Asia and/or Eastern Europe
  - Briefing of country officials on results from baseline studies and synthesis
  - Potential networking and exchange of ideas among officials
- Training on independently conducting pre-feasibility studies for country staff
- Major conference in Eastern European/Central Asian region
  - Convention of state officials and domestic and foreign investors
  - Discussion on improvements in national policy frameworks
  - Networking and exchange
- Independent evaluation

# Thank you!

For more information please visit:

[http://www.unece.org/energy/se/docs/unda\\_sed/unda\\_sp1.html](http://www.unece.org/energy/se/docs/unda_sed/unda_sp1.html)