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Projects proposed by Kazakhstan

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Projects in Kazakhstan: Background info

- Climate Change Coordination Centre (C4) is operating as a JI/CDM office in Kazakhstan under the MoU between the RK Ministry of Environmental Protection (MEP) and C4.
- All Projects registered by C4 will be agreed with MEP after ratification of the Kyoto Protocol
- We are expecting KP ratification in the end of 2007

Projects Status in Kazakhstan

- At the moment there are several project owners decided to register their projects as GHG abatement projects:
  - Construction of Combined Gas Station -126 Megawatt
  - Construction of Small hydropower stations (3 projects)
  - Afforestation project

Projects in Kazakhstan: GTES-126Mw

- **Project type: Coal replacement (fuel switching from coal to natural gas)**
- **Applicant: Climate Change Coordination Centre**
- **Project Location: Almaty City, Kazakhstan**
- **Project entity background:**
- (main activities etc.)
- Projected capacity - 126 Megawatt.
- Heat capacity - 350 Megawatt
- CGS output :
- - Electricity – 1000 -1100 mln. kW/h,
- - Heat – 820 thous. Gkal/year.
- Start of construction: January 01, 2008.
- Gas turbines supply schedule: June 15, July 01, July 15, 2008.
- Start of heat and electricity output: November 01, 2008.
- Full capacity: January 01, 2009.
- Full completion: February 01, 2009.

Projects in Kazakhstan: GTES-126Mw

Project activities:

Projecting and equipment supply, Construction is started

Objective:

Heat and electricity supply to new Southern Financial District of Almaty City

Projects in Kazakhstan: GTES-126Mw

ERUs generated by the project:
(per year – 756807 t. CO2
Total amount over the period – 2009-2012 –
3 027 228 t CO2*)*

Project Implementation:
Preparation/Licensing – 2007-2008
Physical implementation – 2008-2009
Expected date of commencement - 2009

JI/CDM Status of the Project: well developed PIN, Feasibility Study
Cost and financing:

- **Total cost of the project is: 260 mln. USD**

Projects in Kazakhstan: GTES-126Mw

Expected contribution to sustainable development:

- The CGS is in line with modern environmental requirements. The CGS will create new employments mostly during construction period, operation requires minimum personnel working on shifts. The CGS is planned for Southern Business District and is included in the list of breaking-through macro-projects.
- Reduction of coal share at local energy sector and reduction of hazardous emissions.
- GHG emissions reduction.

Projects in Kazakhstan: Construction of Small Hydro Power stations (SHPS)

- Actually there are 3 Projects proposed for finding investors:
  - Construction of SHPS on Merke River – 1.8 MW
  - Construction of SHPS on Asa River – 1.75 MW
  - Construction of SHPS on Talas River– 1.5 MW
- Projects are located in the South of Kazakhstan (Djambul oblast)

Projects in Kazakhstan: Construction of Small Hydro Power stations (SHPS)

- Generation of ERU's
  - Construction of SHPS on Merke River – 1.8 MWt – 6900 ton of CO2 / year
  - Construction of SHPS on Asa River– 1.75 MWt – 4850 ton of CO2 / year
  - Construction of SHPS on Talas River– 1.5 MWt – 7000 ton of CO2 / year
  - All ERU's will be issued to investors of the Projects.

Projects in Kazakhstan: Construction of Small Hydro Power stations (SHPS)

- **Costs and Financing:**
  - Construction of SHPS on Merke River – 1.8 MWt – 1.78 mln. USD
  - Construction of SHPS on Asa River – 1.75 MWt – 4.6 mln. USD
  - Construction of SHPS on Talas River– 1.5 MWt – 1.29 mln. USD
- **All costs are provisional and will be reviewed after investors identified.**

Projects in Kazakhstan: Construction of Small Hydro Power stations (SHPS)

Expected contribution to sustainable development:

- The SHPS use safe environment friendly resources.
- Produced Electricity will be consumed by villagers and will serve as a cheap and good source for improving their lives.
- SHPS will create new employments mostly during construction period, operation requires minimum personnel working on shifts.
- Reduction of coal share at local energy sector and reduction of hazardous emissions.
- GHG emissions reduction.

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Назарылынзға улкен рахмет
Thank you
Danke schon