

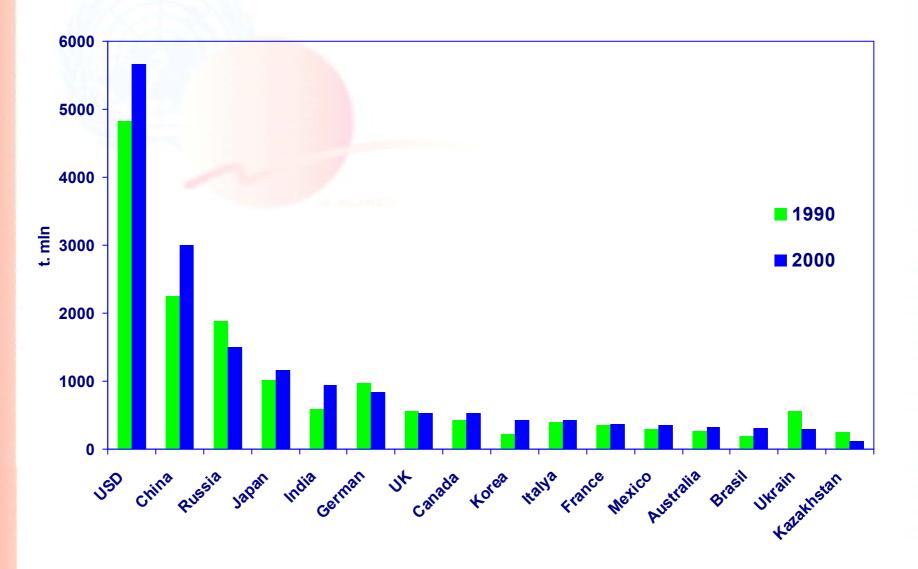
2-5 September 2003, Miyazaki, Japan The 13-th Asia-Pacific Seminar on Climate Change

KAZAKHSTAN'S RESPONSE TO CLIMATE CHANGE: experience in preparation for CDM/JI

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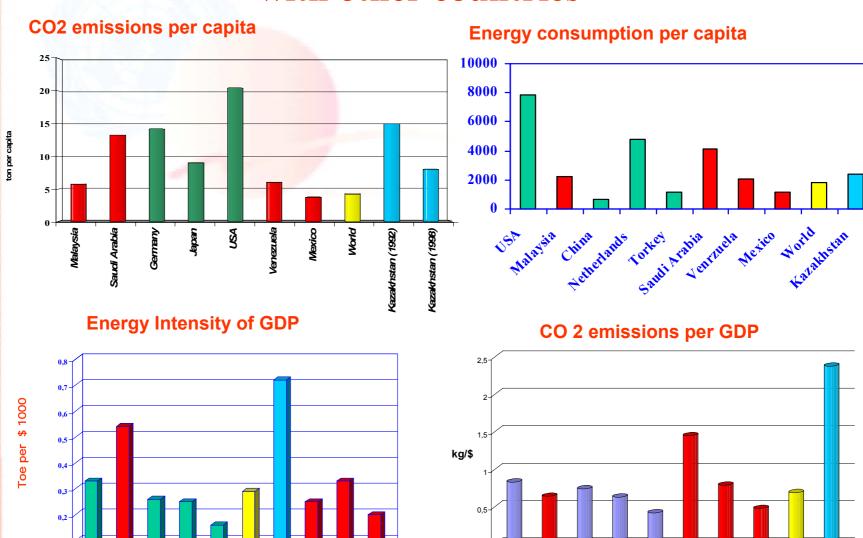
Countries-leaders in GHG Emissions and Kazakhstan





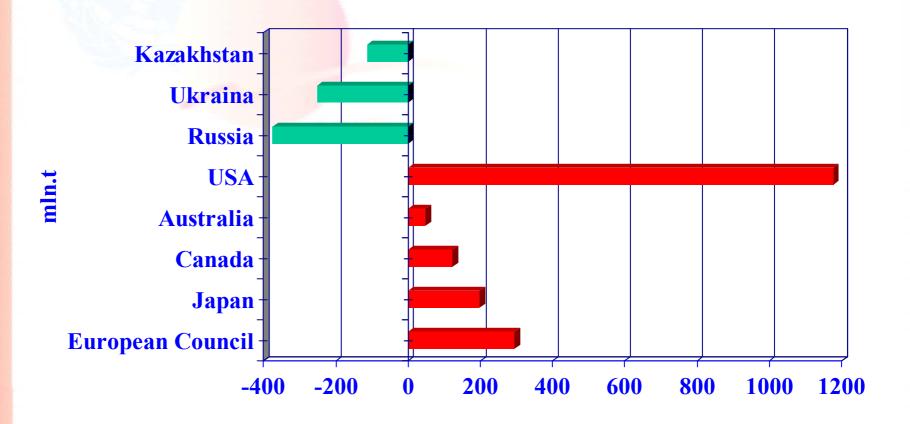
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Some indicators of Kazakhstan in comparison with other countries





Supply-and-demand on the carbon market





Key steps: progress achieved

1995	UNFCCC is ratified
1999	Kyoto Protocol is signed. First National Communication, GHG Inventory - 1990 and 1994.
2000	Decision to join Annex 1, COP-5 – 2000. Voluntary obligation on Art. 4.2gUNFCCC. Government Decree on IACCC, Climate Change Coordination Center-working body of IACCC. GHG Inventory for 1992 and Identification of 1992 as a base year
2001	National System for CDM/JI projects review and approval, GHG projects registry. Inventory 1994, 1999,2000. COP 7 decision on Kazakhstan status: Upon ratification of the KP by Kazakhstan and its entry into force, Kazakhstan becomes a Party in Annex1 for purpose of this Protocol in accordance with Ar.,pr.7 of the KP. The COP recognized that Kazakhstan will continue to be a Party not included in Annex1 for purposes of the Convention.
2002	IAC:Launched the model of national procedures for approval of JI/CDM projects; approved 2 GHG reduction pilot projects. MoU with WB
2003	Searching of international partners, MoUs Situation scenarios of macroeconomic modeling and GHG emissions, developing regulation of KP mechanisms in Kazakhstan

Analysis of benefits/disadvantages in KP participation for the decision makers

Participation in the development of Energy Development Strategy up to 2030

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Institutional framework: Inter-Agency Commission on Climate Change (Government Decree #590, 2000)

Government of the Republic of Kazakhstan

Interagency Commission on Ratification of the Kyoto Protocol and Implementation of RK's Obligations
Under UNFCCC (IAC)

Ministry of Economy and Budget Planning Ministry of Industry and Trade Ministry of Environment Protection Ministry of Energy and Mineral Resources Ministry of Justice Ministry of Finance

Ministry of Foreign Affaires
Ministry of Agriculture
Ministry of Transport & Comm.
Ministry of Defense
Ministry of State Revenue
Extreme Agency

Observers:

NGO and Parliament Representatives, Representatives of **Donor Countries** and **Organizations**, Representatives of Business

Climate Change Coordination Center (Executive Body of IAC)

Support for strengthening of national system for implementation of UNFCCC, Kyoto Protocol and GHG emissions reductions projects in Kazakhstan

Phase-out Ozone Depleting Substances

in Kazakhstan

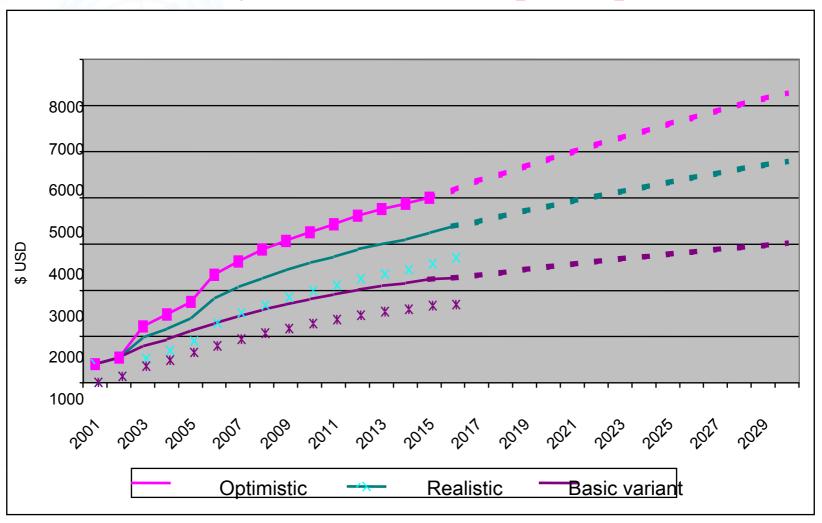


National Priorities in Climate Change

- **⊕** The KP ratification in three stages:
- 1.2003-2004: without commitments. Anticipated investments \$ 50-70mln.
 2. 2003 2005: determination of GHG quantitative obligations and negotiations with world community. Anticipated investments \$150-300 mln.
 3.2005-2007: undertake commitments as Annex 1 Party, at the same time acceding Annex B. Anticipated investments \$500-600 mln.
- © *Establishment of normative and legal basis* for realization of financial mechanisms for natural resources management based on the new law on atmospheric air protection:
- ⊕ Development of "national system" under art.5 KP and a national registry functional in accordance with Article 7.4 of the Protocol;
- Approval of internal procedures on JICDM
 for consideration, evaluation, verification, monitoring and validation of GHG reduction projects under JI/CDM
- Development of NSSon greenhouse gas emissions reduction

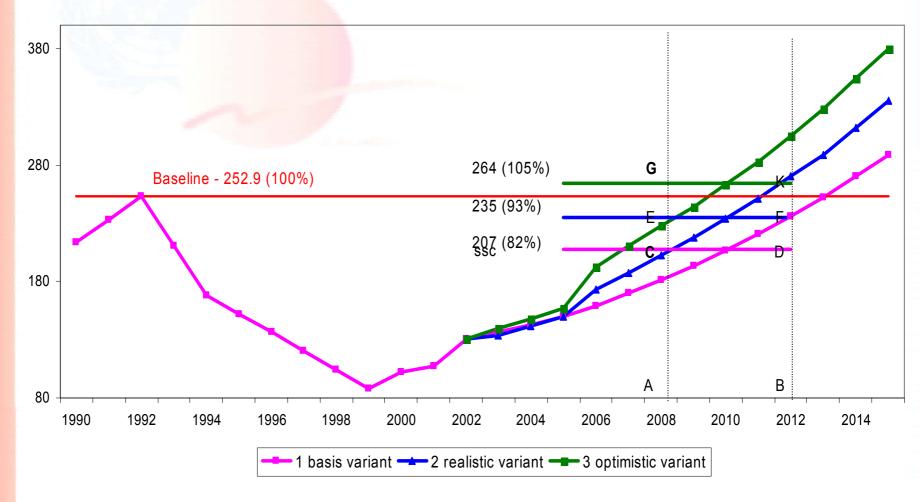


Dynamics of GDP per capita

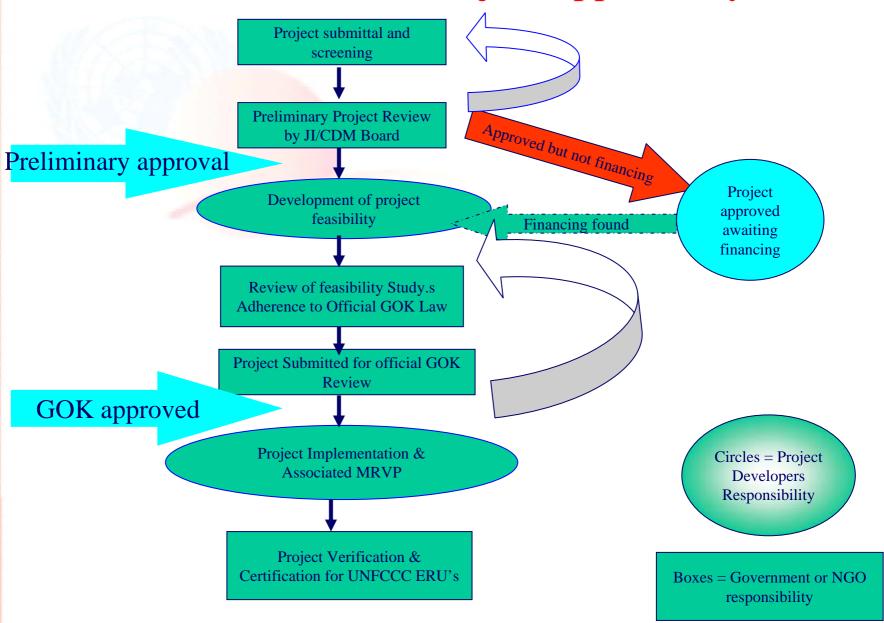




GHG emissions levels by three scenarios of the economy development for 2008-2012, million tonnes



The Scheme of GHG Project Approval by GoK







Project screening criteria in Kazakhstan

- 1. Consistency with the UNFCCC and/or the Kyoto Protocol
- 2. Consistency with relevant national criteria (project implementation in identified priority sectors under the prevailing legislation)
- 3. National and local environmental benefits
- 4. Consistency with the strategic objectives and operating principles of Kazakhstan
- 5. Measurability of project greenhouse gas emissions
- 6. Contribution to sustainable development
- 7. Provision of long-term benefits
- 8. Potential for significant amounts of greenhouse gas reductions
- 9. Acceptable Monitoring plan complying with relevant monitoring rules
- 10. Additional (other) project criteria (minimized implementation and duplication risks, allow objective evaluation and comparison, replication)



Japan/Kazakhstan first potential JI/CDM project

"Installation of a gas turbine with 25 MW utilizing boiler at the Uralsk Heat Power Plant"

On 31 January 2002 in Uralsk working meeting on implementation of the energy efficiency project was held to launch joint efforts to address global warming under the Kyoto Protocol and to present UPDD on the project. Participants: Western-Kazakhstan oblast's Akimat, Ministries(of Natural Resources and Environmental Protection, of Economy and Trade, Energy and Mineral Resources), Japanese companies (Mitsubishi, Hitachi, Tohoku electrics, NEDO organization), Zhaiykteploenergo, Uralsk Heat Power Plant, Western-Kazakhstan regional electrical company and the Climate Change Coordination Center.

On 20 June 2002 in Astana the MoU between Japan (NEDO) and Kazakhstan(the Ministry of Energy and Mineral Resources, Ministry of Natural Resources and Environmental Protection and the Government of the West-Kazakhstan oblast) was signed. The parties started implementing the project on construction of a gas turbine cogeneration system with the capacity of 25 MW.



Japan/Kazakhstan first potential JI/CDM project

Importance for several priority activity directions of Kazakhstan:

- A gas turbine facility to be installed according to the latest Japan technology, will significantly increase energy efficiency of the Ural Heat Station and will ensure its environmental safety, conforms to the concerns of the national energy sector development;
- The project will allow both countries to develop internal legal and regulatory mechanisms for implementation of GHG reduction projects, will significantly increase investment attractiveness of Kazakhstan for foreign donors, and will improve economic feasibility of environmental projects;
- Kazakhstan and Japan are becoming leaders in the process of addressing global warming, and they will start taking relevant practical steps well before the World Summit on Sustainable Development in Johannesburg;
- The project cost is US\$ 15 million, the Japan party will fund it, and during 2008-2012 Kazakhstan will annually transfer its quota of 62 thousand tons of CO2, generated as a result of the gas turbine facility operation, to Japan.





Kazakhstan's potential in energy efficiency and renewable energy resources use

- •The Kazakhstan GDP energy intensity is 1,73 toe/ thousand USD, the energy intensity (average) of OECD is 0,19 toe/ thousand USD(2000). If achieving the energy intensity of the developed countries the absolute potential of energy saving of the Republic of Kazakhstan will be 61,51 mln. t.c.e. (tones of coal equivalent or 166,08 mln. t. CO₂)
- •Hydro potential:about 170GWh/yr, only 8 GWh/yr is in use
- •Wind potential: 8m/sec in Jungar Gates
- Solar energy potential: 2,200-3,000 h/yr; 1,300-1,800 kWh/m2



Next Steps in Kazakhstan

national level

- Turn procedures into regulations (legislation)-clear, rationale system:

 Create national carbon
 - Create national carbon management structure -institutions, policies, authorities;
 - 2) Design and institutionalize transparent procedures for offset projects;
 - 3) Establish a project pipeline; pre-screen;
 - 4) Mmarket the pipeline to potential investors;
- Creation of National CDM(JI) Board;
- Start regular Business Forum for outreach;
- Initiate public education campaign w/NGOs.

business level

- Start of GHG inventories at enterprises;
- Business strategy development in the framework of UNFCCC and Kyoto Protocol;
- Development of baselines;
- Identification of list of projects and GHG projects preparation;
- CB Development and rising understanding of benefits of Kyoto mechanisms.

civil level

- Information / awareness raising and developing of transparency of GHG project process;
- Showing of economic benefits for small/medium business of Kyoto mechanisms;
- Adaptation of measures and issues of global environment;
- Involvement of into active participation in the process of combating global warming – the way to sustainable development.

Kazakhstan Carbon Fund

