

United Nations Development Programme



Opportunities for transformational changes in promotion Energy Efficiency and Renewable Energy



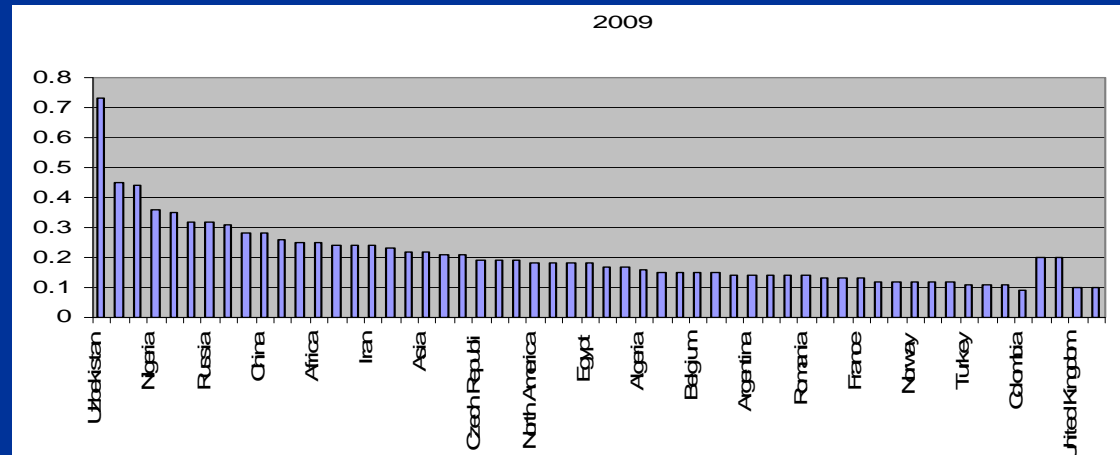
Irina Goryunova
Portfolio manager,
Department of Energy and Environment,
UNDP

Kazakhstan: situation analysis

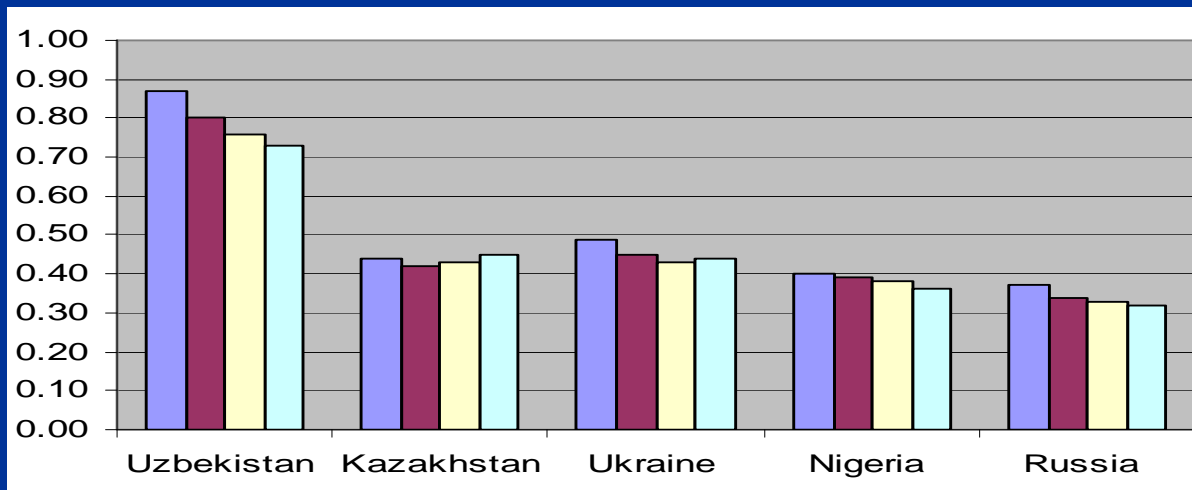


- Rapid development of the economy in transition
- The largest GHG emitter in Central Asia with annual emissions of 243 MtCO₂e

Kazakhstan 2nd energy intensive country in the world



**First five energy intensive countries
2006-2009 dynamics
(koe/\$05p.* Enerdata,** 2009)**



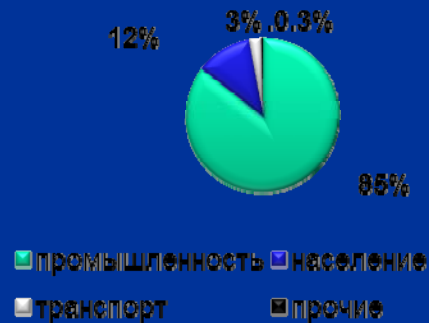
*koe/\$05p – kg of oil equivalent/ 0,5 penny GDP

**Enerdata – EC “Odyssey” tech coordinator

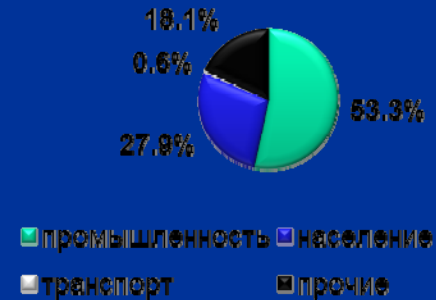
Kazakhstan: situation analysis



Electricity consumption, 2009

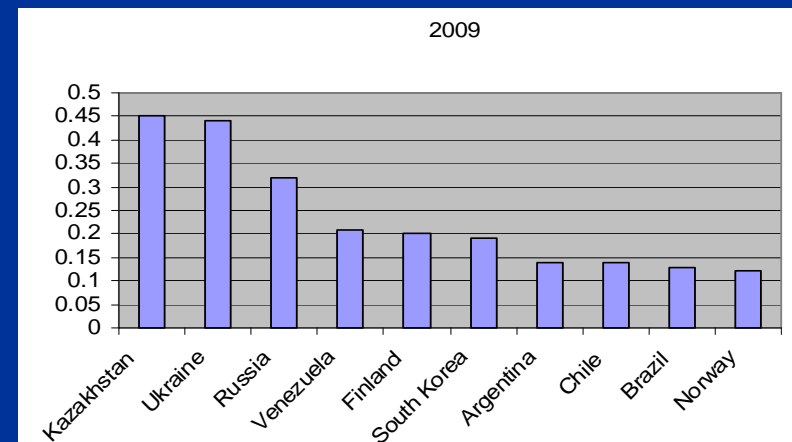
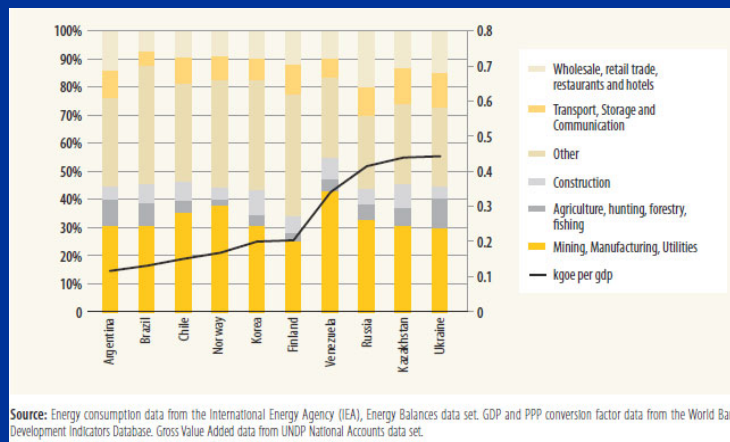


Heat consumption, 2009



•27,9% population= housing sector. This requires further structuring, but is impossible at the moment as there are no heat metering in each household

Capacity for decrease of energy intensity in Kazakhstan, up to 64, 4 %



Kazakhstan: situation analysis



Sectoral priorities for decrease of GDP energy intensity: industry, power engineering, housing sectors



Industry



Housing and communa



Budget

National trends in development



- **Less dependency on natural resources**
- *Strategic development plan of Republic Kazakhstan till 2020*
- *Innovative Industrial Development Strategy of the Republic of Kazakhstan for 2003-2015 (2002)*
- *Forced Innovative Industrial Development Strategy of the Republic of Kazakhstan for 2010-2015 (2009)*
- *Strategy for Low Carbon Development of Kazakhstan*
- *The State Program on rehabilitation and development of the Housing and Communal Services till 2020*
- *Comprehensive Plan for Energy Saving for 2012-2015 (indicative target is a 10% decrease of energy intensity by 2015)*
- **Development and diversification of the energy sector (EE and RES)**
- **Risk: environmental pillar is lost in the rush for economic development**

UNDP in Kazakhstan



- Aim: In partnership with the national partners to transformational change
- *Comprehensive Plan for Energy Saving for 2012-2015 (indicative target is a 10% decrease of energy intensity by 2015)*
- E.g., the UNDP-GEF project contributed substantially to revisions of the *Programme on rehabilitation and development of the Housing and Communal Services*. The program now includes government financial support to heat energy saving measures in residential multi-family buildings
- A new project development with the Government for implementation of the newly adopted *Programme*



Opportunities for UNDP and partners



- For UNDP: advisory services
- For the Government: increase of competitive and autonomous capacity, environmental benefits without economic losses
- For financial institutions: niche in new investment projects
- For small business: increased capacity and new financial opportunities
- For citizens: better service, conditions, lower energy consumption, better environment and wellbeing

National policy development in EE in UNDP and Kazakhstan



- Formulation of policy targets
- Focus on priority sectors
- Institutional basis strengthening for successful development, realization and monitoring of the policy implementation (energy agency);
- Improvement of energy statistics, harmonization of data measuring and calculation for adequate international comparison;
- Formulation of the analytical database;
- Development of the roadmap for EE policy realization (by sectors):
 - ✓ Selection of the most appropriate indicators for progress measuring of the target achievement,
 - ✓ Selection of the most appropriate policy instruments for influence on the needed drivers,
 - ✓ Selection of the indicators for monitoring and measuring of the progress toward the set target.

Opportunities in EE and RES



- Partnership with financial institutions
 - ✓ EBRD in RES and EE (promotion and private investments)
 - ✓ EBRD in housing and communal services sector (micro credit schemes)
 - ✓ WB, IFC, EBRD in public transport sector
- EE projects in municipal heating supply, buildings design and construction
- RES in development of other sectors, such as agriculture, ecotourism, etc.  where UNDP CO is open for new partnerships and ideas

Thank you for your attention!

irina.goryunova@undp.org

