

# On the Way to Energy Efficiency within Residential Sector of Kazakhstan



Kazakhstan



Energy efficient design and construction of buildings assist reduction of energy consumption and associated CO<sub>2</sub> emissions into the atmosphere

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#### Main Beneficiaries:

- Agency for Construction, Housing and Utilities of the Republic of Kazakhstan
- Citizens

Project Duration: 2010-2015

Total Budget:  
\$32,463,840

Global Environment Fund:  
\$4,568,500

Kazakhstan's energy sector accounts for about 80% of total emissions, 90% of which comes from power and heat generation. At this point, residential sector is the third-leading energy consumer in the country after the energy and manufacturing sectors, and, consequently, represents one of the largest sectors of GHG emissions. Buildings, primarily residential, account for 13.5% of power and 24% of heat demand. Taking into account official projections and expected fast growth of housing construction, energy efficiency becomes a national strategic priority for Kazakhstan. The main goal of the project "Energy Efficient Design and Construction of Residential Buildings" is to decrease GHG emissions within residential sector of Kazakhstan.

#### Expected results:

- Improved enforcement and implementation of mandatory building energy codes, standards and rating system
- Development of standards, certification and labelling of energy efficient indicators for construction materials and components
- Education and outreach to promote energy efficient design, applying best practices and technology
- Demonstrate the application of energy efficient building design, embodying best practices, in two state-funded residential buildings

#### Partners in Action:

- Agency for Construction, Housing and Utilities of the Republic of Kazakhstan
  - Ministry of Environmental Protection of the RK
  - Ministry of Industry and Trade of the RK
  - Local municipalities
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