

Towards Achieving Energy Efficiency in Kazakhstan

Authors : Aigerim Uyzbayeva, Valeriya Tyo, Nurlan Ibrayev

Abstract : Kazakhstan is currently one of the dynamically developing states in its region. The stable growth in all sectors of the economy leads to a corresponding increase in energy consumption. Thus, country consumes a significant amount of energy due to the high level of industrialisation and the presence of energy-intensive manufacturing such as mining and metallurgy which in turn leads to low energy efficiency. With allowance for this the Government has set several priorities to adopt a transition of Republic of Kazakhstan to a "green economy". This article provides an overview of Kazakhstan's energy efficiency situation in for the period of 1991-2014. First, the dynamics of production and consumption of conventional energy resources are given. Second, the potential of renewable energy sources is summarised, followed by the description of GHG emissions trends in the country. Third, Kazakhstan' national initiatives, policies and locally implemented projects in the field of energy efficiency are described.

Keywords : energy efficiency in Kazakhstan, greenhouse gases, renewable energy, sustainable development

Conference Title : ICEERET 2014 : International Conference on Energy Efficiency and Renewable Energy Technologies

Conference Location : Barcelona, Spain

Conference Dates : February 26-27, 2015