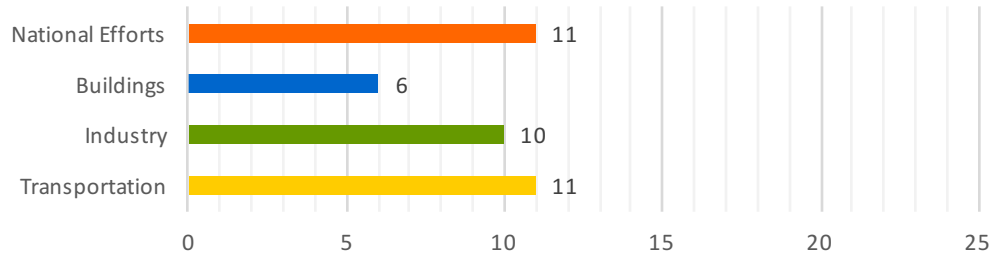
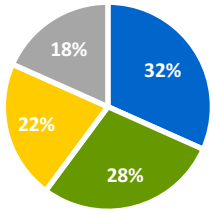
17 Russia





The bars show ACEEE scores for energy efficiency. The pie chart shows 2013 end-use energy shares of buildings, industry, transportation, and other sectors.

Coming in 17th, Russia scored 38 points, ranking just below Australia and above Indonesia and Mexico.

Of the 4 categories Russia is strongest on transportation efficiency, ranking 14th and scoring just 1 point less than the United States. The lower overall energy intensity of Russia's transportation sector is due to fewer VMT per capita and Russia's strong investment in rail transit. This investment in rail brings energy efficiency benefits in the form of low energy intensity of freight transport. Russia has the lowest energy intensity of freight transport of any country analyzed.

Likewise Russia has strengths in the industrial sector. The energy intensity of Russia's industrial sector is moderately high, but a significant portion of the electricity consumed by the industrial sector is generated by CHP, which improves overall efficiency. Russia requires periodic energy audits of its manufacturing facilities and has agreements and incentives in place between governments and businesses to encourage and promote energy efficiency.

AREAS FOR IMPROVEMENT

In the buildings sector Russia was among the bottom five countries. Russia recently saw a significant rollback in its building energy codes, which made most of the energy efficiency requirements voluntary; only building envelope requirements are still mandatory. Furthermore appliance and equipment standards apply to only one product, the lowest number of products regulated by any country in our study. To increase its efficiency in buildings Russia would benefit from adopting the best practices demonstrated by countries such as Australia, France, and Germany.

Russia also has room to improve its national efforts. Thermal power plants in Russia are among the least efficient of any country, and improved federal programs for increasing investment in energy savings would help achieve greater efficiency overall.