

Comments and recommendations by country

Kazakhstan

- **Overall rating**
 - Good
 - Only country to have an on-line database (Taldau) that permits direct download of data in a variety of format
 - To improve the situation in Kazakhstan further:
 - greater integration of survey questionnaires would be required. Current approaches are noted as being chaotic and to not include sufficient analysis or concern for the interests of business.
 - The content and structure of survey questionnaires must be reviewed to ensure greater harmonization across surveys and reduction in response burden. Similarly, methods must be reviewed. An interdepartmental working group or commission could be usefully created to carry out this work.
 - Finally, the policies regarding the dissemination of statistics via the media should be reviewed to ensure equal access to statistical information for all users.
- **Possible improvements**
 - **Basic energy – good (8/8)**
 - Nothing specific
 - **Modern energy services – good (9/12)**
 - **Nothing specific**
 - **Energy efficiency – in need of some improvement (5/9)**
 - Compiling the indicator of *final domestic energy consumption per unit of value added by industrial branch*. The basic data on real (inflation-adjusted) value added by industrial branch appear to be available from the Taldau database. In addition to these, it would be necessary to compile data on final energy consumption by industrial branch that are consistent with SNA principles. The main adjustment required for this is to add consumption of energy for own-account transportation purposes to the estimates of final energy use by branch from the national energy balance.
 - Compiling the indicators of *freight transport energy consumption per tonne-kilometre* and *passenger transport energy consumption per passenger-kilometre*. The basic energy statistics required for these are available from the national energy balance. The data on transport activities (tonne-kilometres of freight transport and passenger-kilometres of passenger transport) are available in the transport statistics database

of Taldau. Combining these statistics to produce the two indicators should be straightforward.

- The indicators of *investment in energy efficiency technologies* should be considered lower priorities, as their compilation requires data on investment expenditures that currently do not exist in Kazakhstan. However, unlike in the other beneficiary countries, Kazakhstan already conducts a survey of environmental protection expenditures that would be a suitable vehicle for the collection of these data. Thus, the possibilities for compiling these indicators are greater in Kazakhstan than in any of the other countries.
- **Renewable energy – good (5/8)**
 - Of the indicators that are not available, priority should be given to compiling the *unit cost of renewable generation*, as the data required for it are likely readily available.