
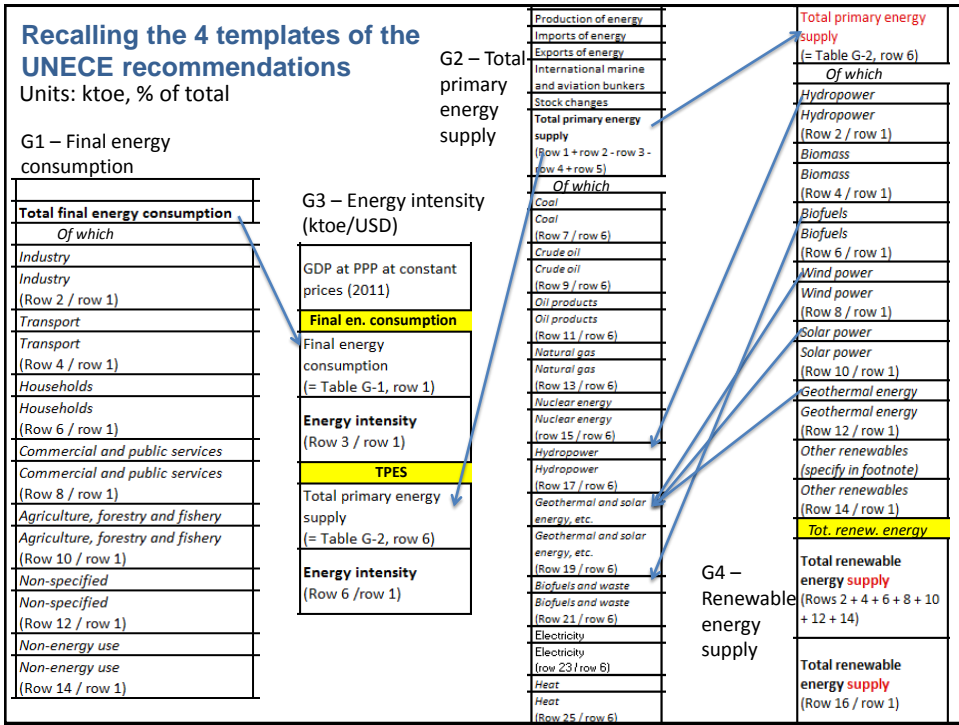


Status and progress in the implementation of the 4 energy-related core indicators

Michael Nagy, Milena Leasevich
12th Session of the Joint Task Force on environmental Statistics and Indicators, 17-18 November 2016, Geneva

Main issues with the 4 energy tables

1. Following closely IEA Energy Balances
2. Many data items are compiled from others (e.g. % of total)
3. Several data items are redundant (in more than 1 table), tables G1 and G2 contain almost all the basic statistics. Tables G3 and G4 are more detailed and calculate indicators.
4. Basic statistics needed to compile the indicators are:
 - a) Final energy consumption by economic activity and households
 - b) Non-energy use
 - c) Supply of energy by energy product
 - d) Imports and exports
 - e) International marine and aviation bunkers
 - f) GDP
5. Energy products in indicator table G2 (TPES) deviate partly from those used in IEA Energy Balances. This may lead to confusion. Examples:
 1. Some energy products are not included, e.g. peat, oil shale and oil sands
 2. Some aggregations are different, e.g. IEA Energy Balances keep "geothermal" separate from "solar, wind, others"

Status and progress in the implementation of the 4 energy-related core indicators

Background

- 18 analysed: Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Georgia, Kazakhstan, Kyrgyzstan, Macedonia, Moldova, Montenegro, Russian Federation, Serbia, Tajikistan, Turkmenistan, Ukraine, UNMIK, Uzbekistan

Energy indicators

- **Final energy consumption (G1)**
 - Total final energy consumption
 - Final energy consumption by category
- **Total primary energy supply (G2)**
 - Total primary energy supply
 - Total primary energy supply by source
- **Energy intensity (G3)**
- **Renewable energy supply (G4)**
 - Total amount of renewable energy supply
 - The amount of renewable energy supply broken down by sources of energy

Status and progress in the implementation of the 4 energy-related core indicators

Criteria for Review

- I. Online accessibility
- II. Update regularity
- III. Production methodology
- IV. Data interpretation and use
- V. Data sources

The data set can be easily accessed by anybody at any time online.

The data set is updated with figures of the latest agreed production period.

Detailed information on standard methodologies and calculation methods for the production of the data set is provided. The detailed information should further confirm that the applied methodology is in accordance with the agreed standard methodology for the production of the particular data set.

Status and progress in the implementation of the 4 energy-related core indicators

- I. Online accessibility
- II. Update regularity
- III. Production methodology
- IV. Data interpretation and use
- V. Data sources

The data set is supported by information about what it presents and how to understand the changes in data sets over time. Information should also be provided on how the collected data was interpreted and used (e.g., for state-of-the-environment reporting or to support environmental policymaking). Information should furthermore be provided in the national language and in an international language (English and/or Russian) to be accessible to the national and international community.

The institution responsible for the production of the data set, its source and contact details are available.

Status and progress in the implementation of the 4 energy-related core indicators

- I. Online accessibility
- II. Update regularity
- III. Production methodology
- IV. Data interpretation and use
- V. Data sources

Performance Score										
	On-line accessibility		Update regularity		Production methodology		Data interpretation and use		Data source	
	20%		20%		20%		20%		20%	
Dataset	1	0.2	1	0.2	1	0.2	1	0.2	0	0

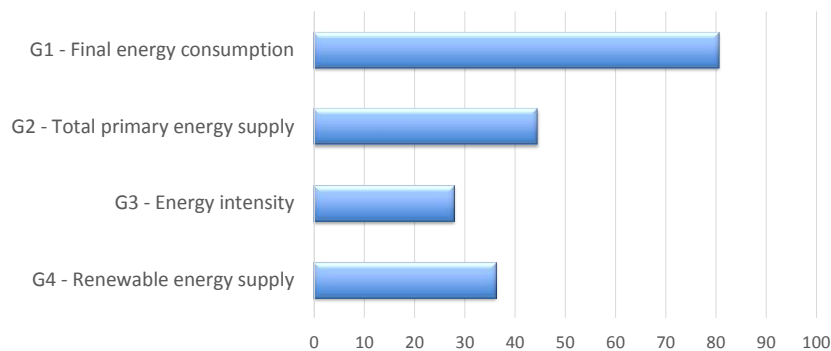
Aggregated score

Rating was done with a "yes" (value of 1) or "no" (value of 0)

80%

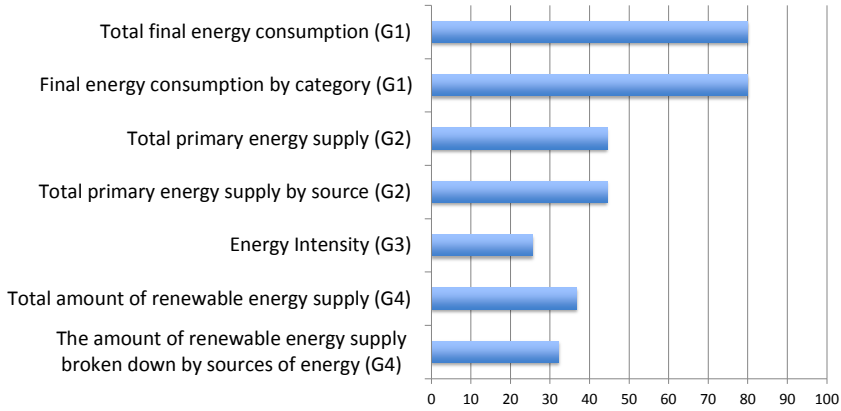
Status and progress in the implementation of the 4 energy-related core indicators

Average online accessibility of each indicator



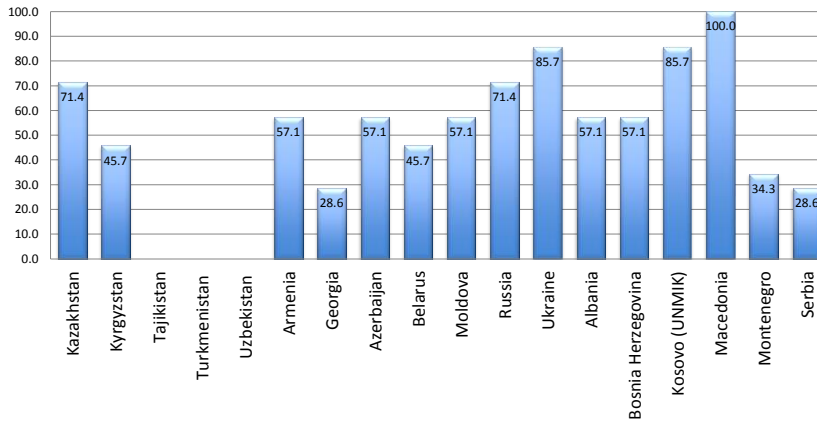
Status and progress in the implementation of the 4 energy-related core indicators

Average performance score of each energy indicator by category



Status and progress in the implementation of the 4 energy-related core indicators

Performance score by country



Conclusions and issues for discussion

Conclusions

1. Final energy consumption (G1) is the best covered indicator
2. Most countries are able to produce all indicators
3. 3 out of 18 countries do not provide any of the indicators
4. The energy products are not fully consistent with IEA Energy Balances and the Standard International Energy Product Classification (SIEC)

Questions

- Is a revision of the indicator tables needed?
- What is needed to further improve completeness and quality of the data?