



EUROPEAN COMMISSION  
EUROSTAT

Directorate E: Sectoral and regional statistics  
**Unit E-2: Environmental statistics and accounts; sustainable development**

**ENV/ACC/WG/1.1(2016)**  
**Point 1.1 of the agenda (14 April)**

**Physical energy flow accounts (PEFA):  
data production and dissemination**

*Eurostat – Unit E2*

**Working Group Environmental Accounts**

**Meeting of 13 and 14 April 2016**  
**BECH Building – Room Quetelet**

## 1 Introduction

Physical energy flow accounts (PEFA) are one of six modules in [Regulation 691/2011](#) and reporting will become mandatory in 2017.

In the years 2010 to 2014 a task force developed the PEFA questionnaire. The main concepts and principles of PEFA are documented in a draft [PEFA manual \(version 2014\)](#) and are widely based on the [system of environmental-economic accounting 2012 – central framework \(SEEA-CF\)](#) which matured/was developed around the same time as PEFA.

The [delegated act on energy products](#) was published on 10 February 2016 specifying the products for PEFA.

Voluntary data collections took place in 2014 and 2015 and another one is planned for 2016.

This document presents highlights from the 2015 data collection and presents the work planned for 2016.

### The Working Group members are invited to

- Take note of the work done in the past, and
- Comment on the work planned for 2016.

## 2 Pilot data collection 2015 - overview

### *Launch and response rate*

The voluntary pilot data collection was launched on 17 July 2015. Deadline for reporting the PEFA-questionnaire was 15 November 2015 which was met by 6 countries. In total 10 countries reported some of which in the context of a pilot project (grant agreement). See Table 1 for more detail.

**Table 1 Overview pilot data collection PEFA 2015**

GEO	Questionnaire received			final	
	reporting date	reference years reported	comments	considered final	Notification to country
HR	27/07/2015	2010, 2011, 2012, 2013	old format (2014 questionnaire); revised version re-submitted on 17 Feb 2016		
DE	29/10/2015	2011, 2012, 2013	see remarks in e-mail by H. Mayer, 29 Oct 2015	13/01/2016	14/01/2016
LT	30/10/2015	2010, 2011	submitted together with grant final report	29/02/2016	29/02/2016
BG	11/11/2015	2012, 2013	see remarks in e-mail by Jaklina Tzvetkova, 11 Nov 2015	01/02/2016	01/02/2016
LV	13/11/2015	2013		24/12/2015	24/12/2015
SI	13/11/2015	2012		12/01/2016	13/01/2016
EL	17/11/2015	2013	revised version re-submitted on 11 January 2016	25/01/2016	25/01/2016
CZ	03/12/2015	2013		13/01/2016	13/01/2016
RO	23/12/2015	2013	submitted in context of grant	25/02/2016	25/02/2016
BE	23/12/2015	1991-2015	submitted in context of grant	16/02/2016	16/02/2016
				9	9

### *Checking/validation procedures and 'Ping-Pong' with countries*

Eurostat and its contractors developed a checking and validation procedure similar to those established for economy-wide material flow accounts (EW-MFA) and air emissions accounts

(AEA). The procedure is widely automated as EXCEL macros and includes the following checks:

- format of questionnaire;
- illegal symbols and footnotes;
- plausibility: comparisons with other questionnaires (e.g. of previous period);
- consistency: checking sub-totals and totals, supply = use (row-wise); input = output (column-wise).

Data validation and 'Ping-Pong' with countries started mid December 2015.

Eurostat did not undertake any gap-filling. The reported PEFA questionnaires seemed complete.

### Data dissemination (data structure in EuroBase<sup>1</sup>)

Publication of PEFA data on EuroBase is planned for April 2016. This will be the first time Eurostat publishes PEFA data as the results of the 2014 data collection were not published. The data structure employed in EuroBase is rather simple and reflects the five tables of the PEFA questionnaire.

### **3 Work planned for 2016**

The 2016 version of the PEFA questionnaire will be worked out in the second quarter of 2016. Depending on the outcome of the working group discussions (see agenda item 1.3 for 14 April) the PEFA questionnaire might undergo some revisions (multi-annual layout, adding sub-tables B.1 and B.2).

The launch of the 2016 data collection is planned for June 2016. Deadline will be 15 October 2016.

The PEFA-builder (IT-tool) will be further refined, in particular the user-friendliness will be improved. Algorithms to populate PEFA Table C will be added. Depending on the outcome of the working group discussions (see agenda item 1.3) the PEFA-builder will be extended to accommodate and populate sub-tables B.1 and B.2. The video tutorial needs to be up-dated.

Revision work on the PEFA manual will start by the end of the year. Eurostat intends to publish a revised version in 2017 clarifying and refining methodological as well as compilation issues.

Calculating PEFA for the aggregated EU-28 is most likely not feasible for the coming data collection cycles due to the expected incompleteness (some countries have derogations).

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<sup>1</sup> Eurostat's online database