

## International Workshop on Energy Statistics Mexico, 2-5 December 2008

# InterEnerStat Work on On Harmonisation of Definitions

**Jean-Yves Garnier** 

**Energy Statistics Division International Energy Agency** 



## Lack of harmonisation: more work and confusion





<b>Crude Oil</b>	<b>Production</b>	for I	Mexico (	(in
------------------	-------------------	-------	----------	-----

kbd)	1995	1996	1997	1998
APEC	2653	2903	3087	3134
IEA	2741	2872	3062	3109
OLADE	2722	<del>2969</del>	3022	3070
<del>OPEC</del>	2618	2858	3022	3071
UN	2834	2977	3166	3210



## Two Clear Requests from InterEnerStat 1

### **Harmonisation**

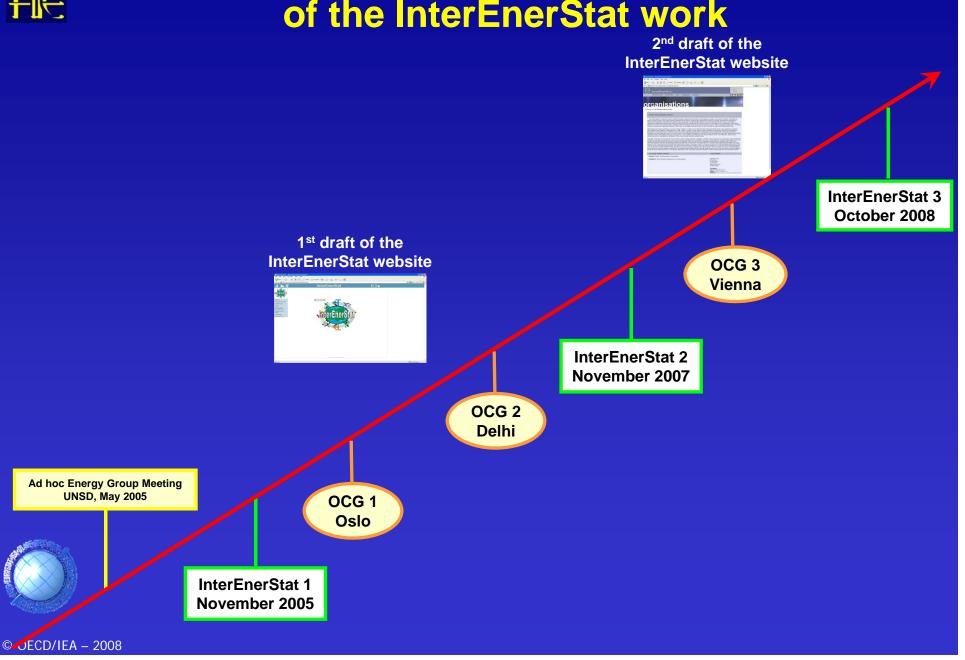
- Methodologies
- Definitions
- Units
- Conversion factors
- Harmonised demands and questionnaires
- Handbooks and manuals
- Training
- Quality framework

### **Co-operation**

- awareness
- Harmonisation
  - Joint Questi
- Joint Training
- Common manuals
- Joint quality assessment
- Exchange of data



## A few milestones in the development of the InterEnerStat work





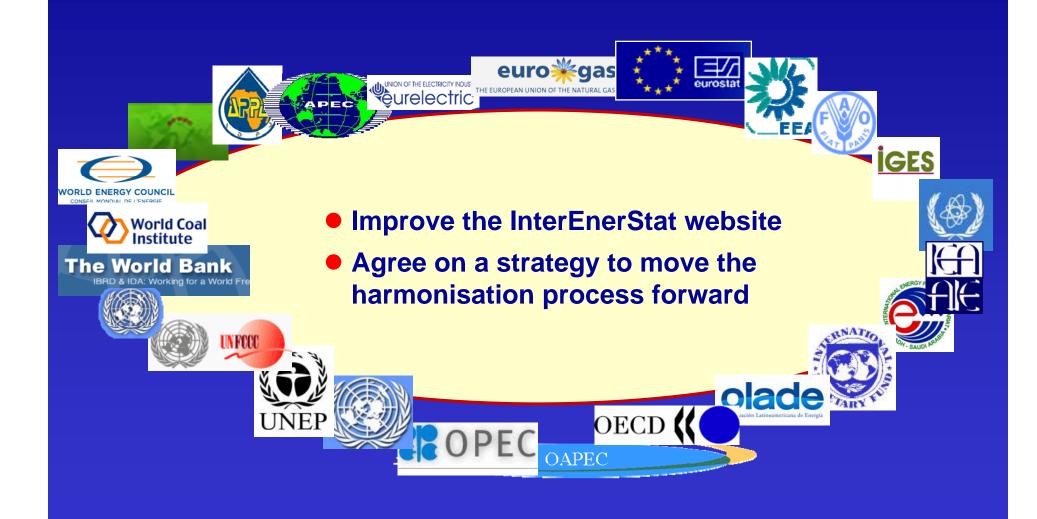
## Harmonisation: The first step was to collect from each organisation its own set of definitions



The 2<sup>nd</sup> step was to assemble them in a transparent way easy to access

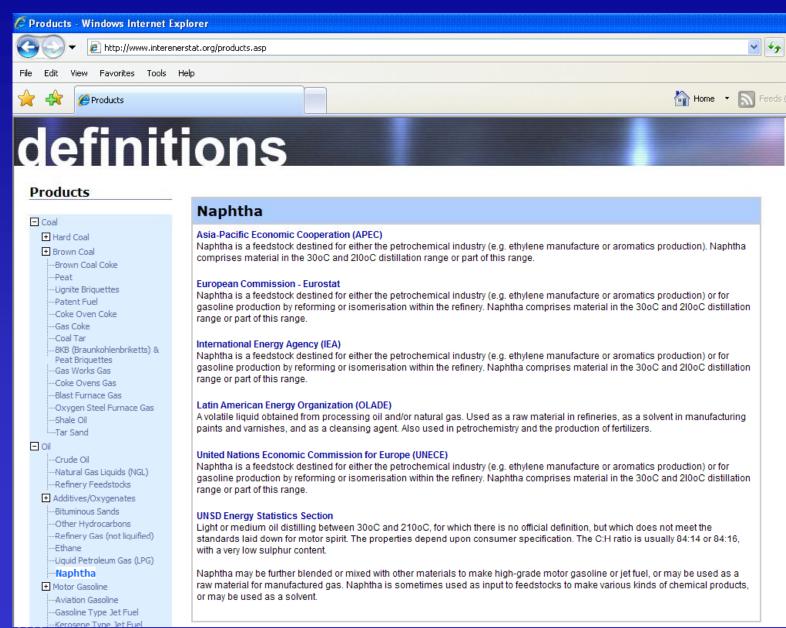


### The 2nd InterEnerStat Workshop November 2007, IEA, Paris



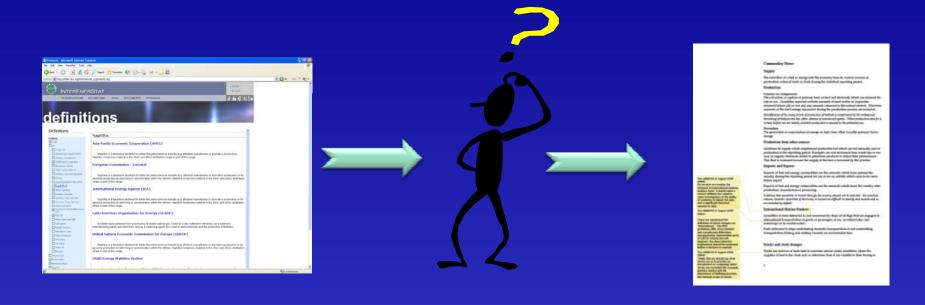


### An overview of the InterEnerStat website





## What happened since InterEnerStat 2





### An expert has been contracted for:

- Looking at flows and products
- Highlighting similarities and differences
- Proposing a "compromise" definition for each flow/product



### What happened since InterEnerStat 2

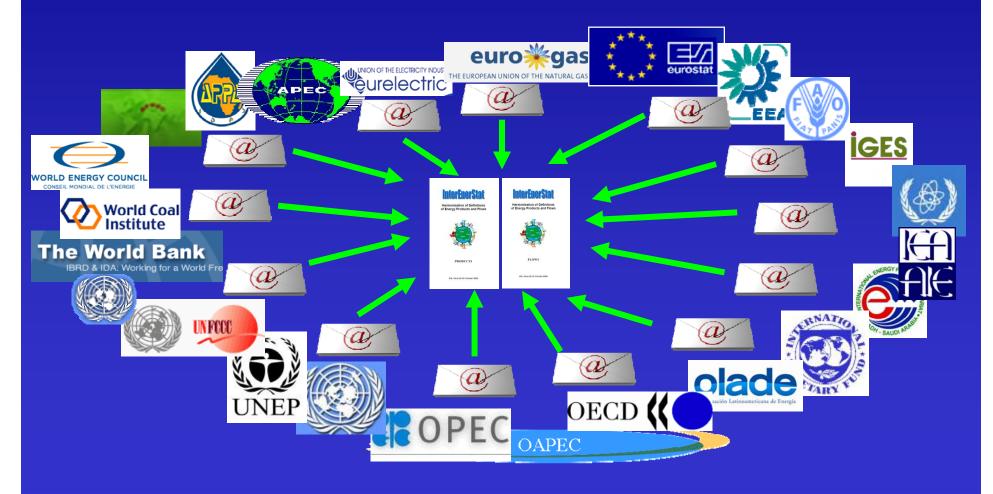
The proposed 'compromise' definitions have been sent to all organisations for comments





## What happened since InterEnerStat 2

Comments have been sent by many organisations and assembled into two documents on flows and products





## The definition as proposed by the consultant

## Comments received from organisations

#### Stocks and stock changes

Stocks are reserves of fuels held to maintain service under conditions where the supplies of fuel to the stock and/or deliveries from it are variable in their timing or amounts. Not all stocks are eligible for inclusion in fuel statistics and those which are need to chosen in a manner consistent with the construction of the national fuel statistics.

Stock change over the reporting period is conventionally the difference between the stock level at the beginning of the period (opening stock) and that at the close of the period (closing stock). Consequently a decrease in stock (stock draw) gives rise to a positive stock change and represents an addition to supply. Conversely, an increase in stock (stock build) results in a negative stock change and is considered a withdrawal from supply.

Comment [4]:
This SDAMONS 6 August 2008 09h42
I think that we should say what stocks are as it provides an introduction to explaining which stocks are excluded (for example, pipeline stocks) and the importance of defining precisely the national scope of stocks.

#### COMMENTS

#### APEC

Stock and Stock Changes – We agree with the consultant to identify which stocks are included and excluded. Only the stocks of the government, stock holding companies and bulk suppliers (importers, exporters, refineries and depots) should be included in stocks as stocks of consumers may be difficult to collect.

The word "reserves" to refer to stocks might also lead to confusion with reserves that are yet to be extracted from underground. Please find another word like inventory or the like.

#### IEA

We agree that we need to have a definition of stocks, but find the current suggestion to be vague. We should say what is and is not included.

The second part of the definition depends on the reporting convention. For oil, for example, the opposite of what is mentioned is usually the convention i.e. the stock change= closing-opening stocks.

Stocks and reserves should not be confused. Reserves we use for what is still underground.

#### OLADE

It would be useful to include formula for stock changes.

#### ODE

We would agree to provide the explanation as to which stocks are excluded and the importance of stocks.

#### HINSE

The wording of the proposed definition seems to suggest that underground resources are included in the definition of stocks: the term "reserve" is generally used to denote a subset (which are exploitable under certain circumstances) of the natural underground resources.



## The 3rd InterEnerStat Workshop 28-20 October 2008, IEA, Paris





## The 3rd InterEnerStat Workshop 28-20 October 2008, IEA, Paris

**Tuesday 28** 

Background Objectives

Coal

Wednesday 29

Flows (1st session):

Supply

**Transformation** 

**Thursday 30** 

**Natural Gas** 

Oil

Renewables

**Electricity** 

Flows (2<sup>nd</sup> session):

Consumption

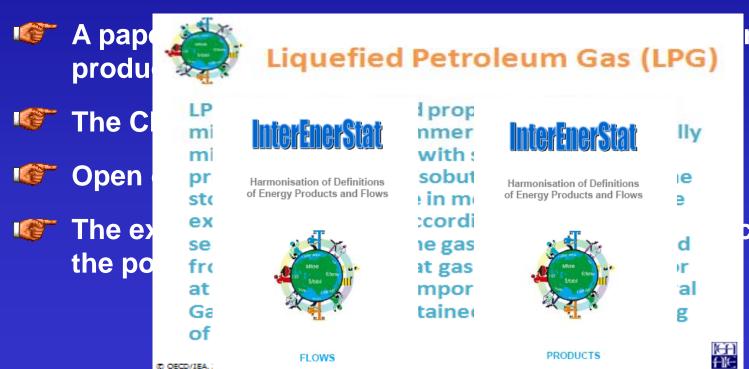
Oil (cont.)

What's next Closing



### **The Discussion Process**

- The Chair introduced the definition of a product or a flow
- The definition was shown at the same time on the screen



IEA, Paris, 28-30 October 2008

nd the

cussion and

IEA, Paris, 28-30 October 2008

## **InterEnerStat**

Harmonisation of Definitions of Energy Products and Flows



**FLOWS** 

IEA, Paris, 28-30 October 2008



## **Next steps for the harmonisation**



A report on the decisions agreed upon in October 2008 has been circulated for comments to participating organisations



Harmonisation of Definitions of Energy Products and Flows



**DECISIONS ON FLOWS** 

IEA, Paris, 28-30 October 2008

end November to experts sions taken at

be circulated

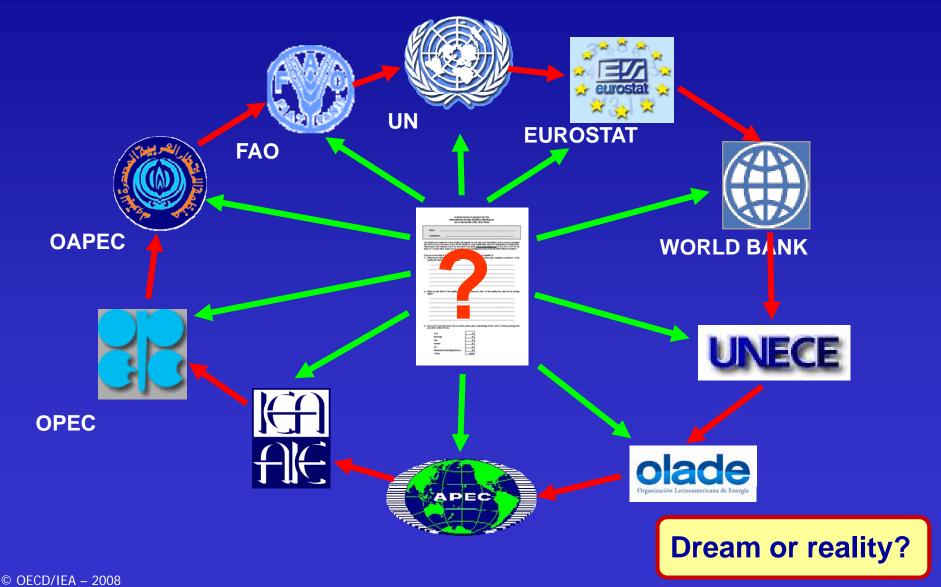
ek before itions







The ultimate goal in terms of harmonisation would be to have one questionnaire common to all countries and organisations





## Harmonisation and Cooperation therefore pass by an agreement on key points

Term to be agreed	Comments
Definitions	Not so easy – see crude oil production
Units	Easy in principle – conversion factors
Questionnaires	Related to definitions but also to level of detail
Methodology	Depending on convention adopted e.g. TPES vs. TPER
Processing	Who processes what (e.g. Mexico: APEC, OECD, OLADE, UNSD)
Quality checks/standards	Essential for sake of comparability/level of confidence
Timetable	All organisations need to adopt the same timetable: deadline, processing, etc.



### A few words to conclude

- Harmonisation will not happen overnight. It needs time, effort, resources and commitment
- The first steps have been taken to establish the basis for moving harmonisation forward
- Current step is for organisations to review the 2<sup>nd</sup> set of recommendations from the expert on compromised definitions
- Underlying principle: evolution not revolution. The main target remains and will remain energy policy and energy analysis
- It is well understood that these definitions will only be guidelines to help organisations to arrive to a common understanding of what is a covered by a particular flow or a particular product.
- It is also well understood that no organisation needs to change its current definitions to adopt the common definitions which could result from this work



### What could be next

- When agreed by all the organisations participating in the InterEnerStat initiative the definitions could feed the work of UNSD and the Oslo City Group on IRES.
- The definitions will also be posted in the InerEnerStat web site together with the definitions of each organisation in the hope that organisations will slowly but surely move towards, if not the same definitions (word for word), at least the same concept and content.
- The agreement on the hierarchy tree for flows and for products is certainly a major step in the harmonisation process.
- But harmonising the definitions is not enough, next step (as mentioned earlier) is to harmonise questionnaires and then sharing the burden of processing the data with as final objective a major improvement in data transparency, quality, coverage and timeliness.

Thank you