Physical Energy Flow Accounts – Training Materials

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London Group on Environmental Accounting

19 th Meeting, 12-14 November 2013

Session 3 Energy Accounting

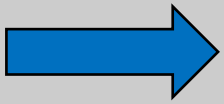
Library > 2012 ESTP programme(0) > 02. Energy accounts, 13-14.02.2012, Vienna, AT - Organiser_ SOGETI

02. Energy accounts, 13-14.02.2012, Vienna, AT - Organiser_ SOGETI

Die Bibliothek ist der Ort, wo **Inhalte** gespeichert, verwaltet und geteilt werden.

Inhalt

Name	Größe	Änderungsdatum
Draft Agenda for Energy Accounts 2012.pdf	102.06 KB	21 November 2012 14:36
Draft PEFA Manual 9Jan2012.pdf	837.13 KB	21 November 2012 14:36
EnAcc_Commerce_pdf.ppt	2.18 MB	21 November 2012 14:36
EnAcc_examples_pdf.ppt	100 KB	21 November 2012 14:36
EnAcc_transport_pdf.ppt	1.32 MB	21 November 2012 14:36
EnergyAcc_USE_pdf.ppt	377.5 KB	21 November 2012 14:36
Paper by HM Road Transport & Services.pdf	241.18 KB	21 November 2012 14:36
PEFA Manual graphs, annexes & tables.xls	258.5 KB	21 November 2012 14:36
PEFA_Questionnaire_testing2012_9Jan12.xls	2.44 MB	21 November 2012 14:36



preliminary

Manual for Physical Energy Flow Accounts (PEFA-Manual)

Draft version: 9 January 2011

DESTATIS
wissen.nutzen.

Table of Content:

preliminary

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Eurostat Energy Module:Set of tables

Figure 2: Scheme providing an overview on the set of tables in the PEFA electronic questionnaire

Table A: Physical Supply Table for Energy Flows

	industries	households	accumulation	rest of world	environment	Total
natural energy inputs					A.	
energy products	C.			D.		
energy residuals	I.	J.	K.	L.	M.	

Table B: Physical Use Table for Energy Flows

	industries	households	accumulation	rest of world	environment	Total
natural energy inputs	B.					
energy products	E.	F.	G.	H.		
energy residuals	N.		O.	P.	Q.	

Table B.o: Physical Use Table for Energy Flows - of which: own use

	industries	households	accumulation	rest of world	environment	Total
natural energy inputs						
energy products	E.o					
energy residuals						

Table D: Vector(s) of key energy indicators

	industries	households
energy key indicator		

Table C: Physical Use Table of Emission-relevant Use of Energy Flows

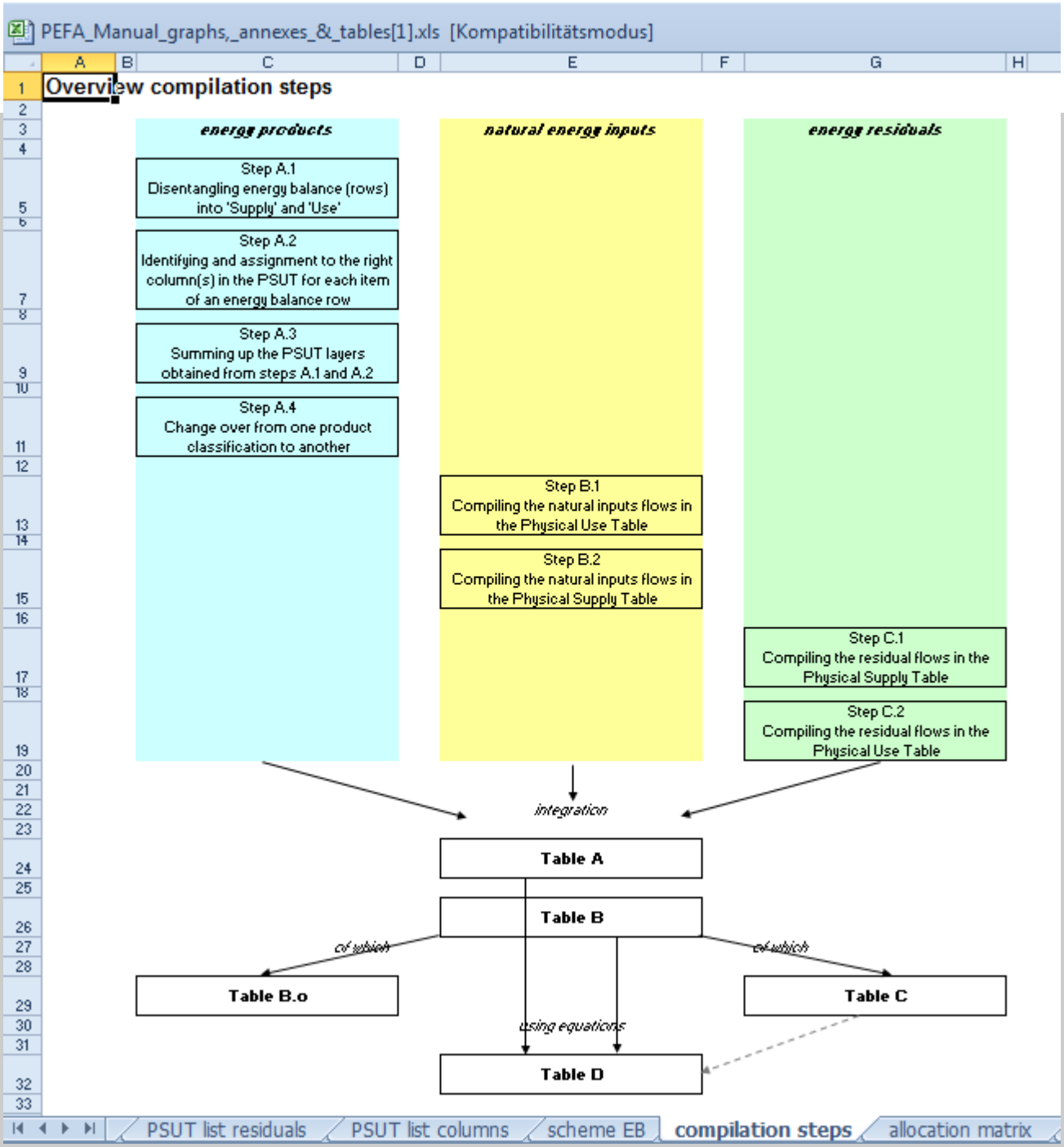
	industries	households	accumulation	rest of world	environment	Total
natural energy inputs	B.er					
energy products	E.er	F.er	G.er			
energy residuals						

Table E: Bridge Table

energy key indicator (resident principle)
- energy use by resident units abroad
+ energy use by non-residents on territory
= energy key indicator (territory principle)

Legend:

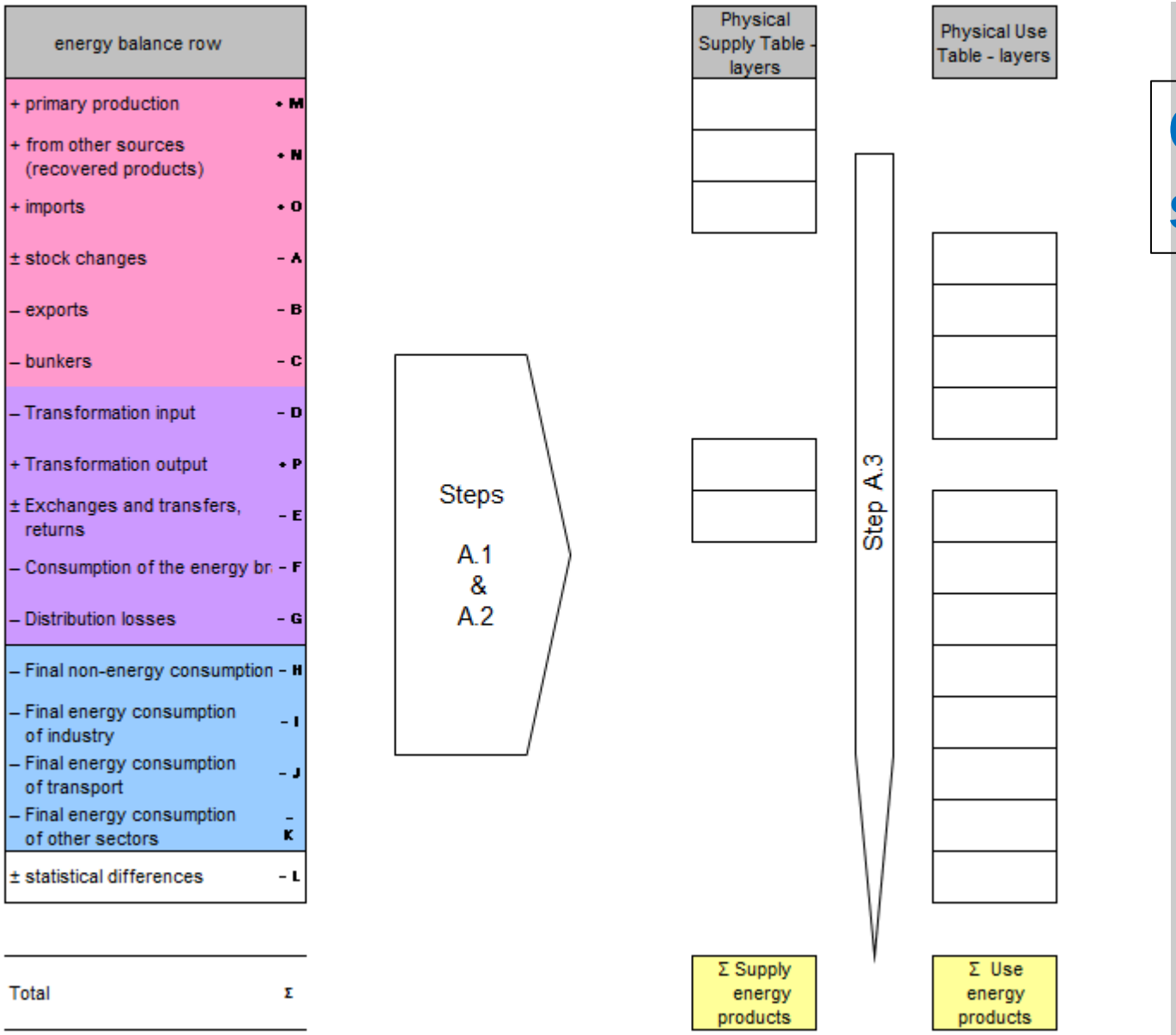
	grey shaded cells do not contain values
	white cells may contain values
X.	capital letters denote single elements (sub-matrices)



Compilation steps (1)

PEFA_Manual_graphs,_annexes_&_tables[1].xls [Kompatibilitätsmodus]

Compilation steps (2)

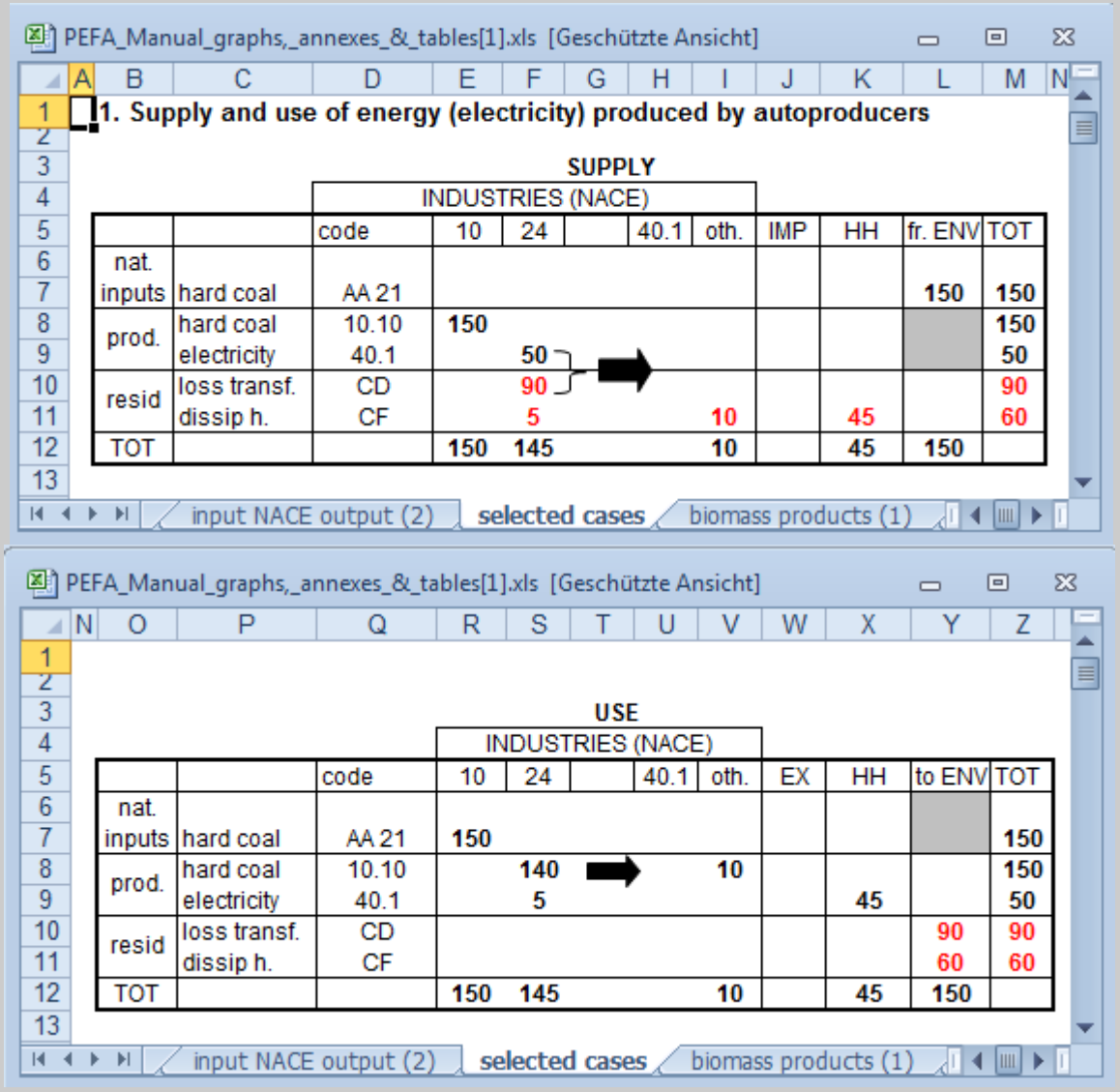


PSUT list residuals | PSUT list columns | scheme EB | compilation steps | allocation matrix | step A.3

„selected cases“

Manual: chap. 6

Ppt: „examples“



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1. Supply and use of energy (electricity) produced by autoproducers

SUPPLY

		INDUSTRIES (NACE)									
		code	10	24		40.1	oth.	IMP	HH	fr. ENV	TOT
nat. inputs	hard coal	AA 21								150	150
prod.	hard coal	10.10	150								150
	electricity	40.1		50							50
resid	loss transf.	CD		90							90
	dissip h.	CF		5			10		45		60
TOT			150	145			10		45	150	

input NACE output (2) | selected cases | biomass products (1)

PEFA_Manual_graphs,_annexes_&_tables[1].xls [Geschützte Ansicht]

USE

		INDUSTRIES (NACE)									
		code	10	24		40.1	oth.	EX	HH	to ENV	TOT
nat. inputs	hard coal	AA 21	150								150
prod.	hard coal	10.10		140			10				150
	electricity	40.1		5					45		50
resid	loss transf.	CD								90	90
	dissip h.	CF								60	60
TOT			150	145			10		45	150	

input NACE output (2) | selected cases | biomass products (1)

„selected cases“

1. Supply and use of energy (electricity) produced by autoproducers

2a. Biomass: 'natural' biogas and landfill gas

2b. Biofuels

3. Supply and use of wind and solar energy

4. Supply and use of cokery and blast-furnace gas

5. Supply and use of waste

6. Supply and use of energy for non-energy use

7. Supply and use of natural gas

8. Supply and use of nuclear energy

PEFA_Manual_graphs,_annexes_&_tables[1].xls [Kompatibilitätsmodus]

Industries receiving renewable natural energy inputs

input natural energy input		Industry NACE rev.1.1	output energy product	
AB.5541x	Biomass for energy use (resource)	**NACE 01 Agriculture etc.**	Other vegetal material and waste (straw and forage	BA.55412.CPA.01.11.60
AB.5541x	Biomass for energy use (resource)	**NACE 02 Forestry etc.**	Wood (fuel wood)	BA.55411.CPA.02.01.14
AB.5510	Hydro power (resource)	**NACE 40 Electricity supply etc.**	Electricity from hydro power	BA.5510.CPA.40.11.10
AB.5520	Wind power (resource)		Electricity from wind power	BA.5520.CPA.40.11.10
AB.5532	Solar thermal (resource: solar radiation)		Electricity from solar thermal	BA.5532.CPA.40.11.10
AB.5534	Solar PV (resource: solar radiation)		Electricity from solar PV	BA.5534.CPA.40.11.10
AB.5535	Tide, Wave and Ocean (resource)		Electricity from tide, wave and ocean	BA.5535.CPA.40.11.10
AB.5550	Geothermal energy (resource)		Electricity from geothermal energy	BA.5550.CPA.40.11.10
AB.5532	Solar thermal (resource: solar radiation)		Solar thermal heat	BA.5532.CPA.40.30.10

European Statistical Training Programme (ESTP)
13-14 February Vienna

Energy consumption in

Other sectors (commerce)

1. Coverage
2. Databases - indicators
3. Compilation tool

European Statistical Training Programme (ESTP)
13-14 February Vienna

Energy consumption in

ROAD TRANSPORT

1. Conceptual matters
2. Compilation strategies
3. Base data
4. Calculation tool

For discussion

Manual on Physical Energy Flow Accounts – elements: set of tables, classifications, base statistics, compilation steps, allocation (services, transport), indicators

… necessary on an international level?

Thank you very much for your attention!

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