Energy Statistics Compilers Manual: Progress

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Background

- (Most) chapters submitted to last meeting in Azerbaijan (OG8), after being reviewed in the online meeting last year

- STATCAN and UNSD met in March to advance the drafting process

- Each chapter reviewed, with further changes proposed

Status

- In general, the chapters that have been updated are now in a position for combining into the manual for final comments
- Still require final drafts of
  - Chapter 1: Introduction
  - Chapter 6: Energy accounts (?)
  - Chapter 9: Data dissemination
- **More country practices needed**

Chapter 1: Introduction

- The chapter is dependent on the content of the rest of the manual, so nothing to be done immediately

- Comments from OG8 still apply

- The chapter was not reviewed, as no update has been made since Baku

Chapter 2: Legal Framework and Institutional Arrangement

- OG8 proposed a new structure, with an introduction, legal framework and institutional arrangements sections

- Country examples to be presented as text boxes, focusing on their legal & institutional framework

- STATCAN have drafted a new version, including a new example from Sweden

- Pending:
  - the re-structuring of the legal framework and institutional arrangement sections, and a section on strategies of enforcement (not duplicating chapter 4)
  - Ghana's legal framework example to be incorporated

Chapter 3: Classifications

- The existing country examples are not fully in line with IRES: not drastic, but explanation of why IRES is not followed would be helpful

- UNSD to approach countries for further examples, and to include descriptions of HS and importance of better links between CPC and SIEC

- UNSD to circulate improved chapter soon

Chapter 4: Data Sources and Data Collection

- The previous draft of the chapter covers both generic statistical collection models, and data source and data collection techniques relevant to energy statistics

- It is therefore proposed to split this into two chapters....

New Chapter 4: the Global Statistical Business Process Model

- New chapter to concentrate on statistical survey processes
- Based on pages 1-7 of old Chapter 4 (detailing the statistical model), and pages 10-15 of Chapter 8 (ensuring data quality)
- Not energy-specific
- UNSD to co-ordinate and edit

Quality Management / Metadata Management

Specify Needs	Design	Build	Collect	Process	Analyse	Disseminate	Evaluate
1.1 Identify needs	2.1 Design outputs	3.1 Build collection instrument	4.1 Create frame & select sample	5.1 Integrate data	6.1 Prepare draft outputs	7.1 Update output systems	8.1 Gather evaluation inputs
1.2 Consult & confirm needs	2.2 Design variable descriptions	3.2 Build or enhance process components	4.2 Set up collection	5.2 Classify & code	6.2 Validate outputs	7.2 Produce dissemination products	8.2 Conduct evaluation
1.3 Establish output objectives	2.3 Design collection	3.3 Build or enhance dissemination components	4.3 Run collection	5.3 Review & validate	6.3 Interpret & explain outputs	7.3 Manage release of dissemination products	8.3 Agree an action plan
1.4 Identify concepts	2.4 Design frame & sample	3.4 Configure workflows	4.4 Finalise collection	5.4 Edit & impute	6.4 Apply disclosure control	7.4 Promote dissemination products	
1.5 Check data availability	2.5 Design processing & analysis	3.5 Test production system		5.5 Derive new variables & units	6.5 Finalise outputs	7.5 Manage user support	
1.6 Prepare business case	2.6 Design production systems & workflow	3.6 Test statistical business process		5.6 Calculate weights			
		3.7 Finalise production system		5.7 Calculate aggregates			
				5.8 Finalise data files			

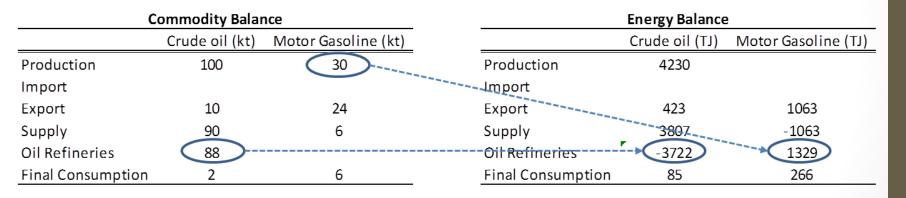# (old) Chapter 4: Data Sources and Data Collection

- The generic statistical process text moved to new chapter, concentrate on energy here

- Other content was better placed in other chapters (e.g. accounts diagram).

- Chapter 5 text on data sources, stocks and household surveys added; better placed here

- More detail on big data and modelling

- Pending:
  - UNSD to find country examples on the uses of administrative data (energy-relevant examples only)

Chapter 5: Energy Balances

- UNSD and STATCAN agreed on some edits (including IEA comments) and added extra text and diagrams.

- The distinction between commodity and energy balances is emphasised

- In Section C, IRES is only repeated when a flow has a specific issue of relevance to balances (e.g. from other sources, blast furnaces)

Chapter 5 Example

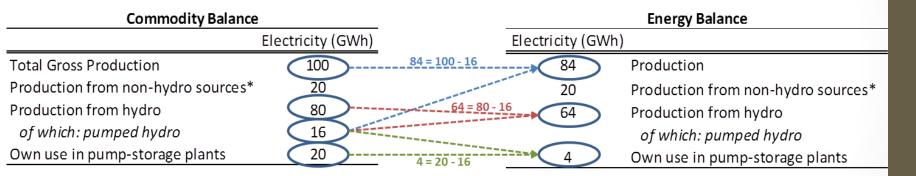Moving from commodity balances to energy balances for crude oil and gasoline

Commodity Balance		
	Crude oil (kt)	Motor Gasoline (kt)
Production	100	30
Import		
Export	10	24
Supply	90	6
Oil Refineries	88	
Final Consumption	2	6

Energy Balance		
	Crude oil (TJ)	Motor Gasoline (TJ)
Production	4230	
Import		
Export	423	1063
Supply	3807	-1063
Oil Refineries	-3722	1329
Final Consumption	85	266

Motor gasoline in kt x 44.3 TJ/kt = Motor gasoline in TJ

Crude oil in kt x 42.3 TJ/kt = Crude oil in TJ

Chapter 5 Example

Pumped storage in commodity and energy balances

* This is not a flow in the commodity or energy balances, and it is used in this example only to illustrate how pumped hydro is adjusted between the commodity and energy balances.

Chapter 6: Energy Accounts

- This chapter was not discussed as no update has been received since OG8

- From OG8 report: *"further guidance... could be developed after the completion of the ESCM with the... London Group."*

- One option: include a very brief description of accounts, and refer readers to SEEA-Energy (or their separate compilation guidance)?

Chapter 7: Energy Indicators and GHG Emissions

- The topic of indicators is extremely important and it's difficult to provide compilation guidance in just one chapter

- GHG methodology is complex topic and covered elsewhere

- The proposal is to delete this chapter, and include a discussion of indicators in the dissemination chapter

- The draft chapter text could be used as background for future OG indicator discussions

Chapter 8: Data Quality and Metadata

- GSBPM text will be moved to the new chapter 4
- UNSD to compare the text against the National Quality Assessment Framework
- The text is not currently energy specific, but this is not seen as a big problem
- Country examples however should be energy-specific.

Chapter 9: Dissemination

- Chapter hasn't been updated since OG8

- References to social media dissemination would be useful

- Brief indicators text should now be here

- The text on timeliness from chapter 5 would be well placed here

- UNSD to obtain more energy-specific country examples, particularly on social media (anyone?)

Work plan

- With the addition of some more country examples and agreed-upon edits, the manual can now move forward

- UNSD to distribute a completed draft to the Oslo Group

Work plan Continued

- Comments and additions still welcome
- Energy-specific country examples still sought
- Final comments and editing to be completed before OG10

NEARLY THERE!

Thanks