

The Oslo Group on Energy Statistics
The third meeting
4-6 February, Vienna, Austria

Report

Contents

1. Summary of opening statements
2. Findings and conclusions
 - 2.1 General
 - 2.2 Scope of official energy statistics
 - 2.3 Scope and contents of IRES and ESCM
 - 2.4 Organization of the revision process
 - 2.5 Guiding principles for IRES preparation
 - 2.6 Selected issues of energy statistics
 - 2.7 Follow-up actions and activities prior to the 4th meeting of the Group
3. Time and place of the next meeting
4. Agenda
5. List of participants

1. Summary of the opening statements

The meeting was opened by Prof. Peter Hackl, Director General Statistics Austria. In his welcome address Mr. Hackl pointed out that Statistics Austria has a long tradition of working in various areas of statistics dating back to 1828. Statistics Austria has compiled energy statistics for decades and developed energy balances back in the 50's. Austria is rich in natural resources and, although still relying on traditional sources of energy, is promoting the development of renewable energy sources like hydropower and wood pellets. In this context Mr. Hackl stressed that the updating of international recommendations on energy statistics is a very important task and wished the Oslo Group to have a successful meeting and pleasant stay in Vienna.

In his opening statement Mr. Olav Ljones, Chair of the Oslo Group and Deputy Director General of Statistics Norway, warmly welcomed all participants to the Third meeting of the Oslo Group with special greetings to the newcomers. He stressed the importance of energy in the economy with consequences in terms of income difference and climate change and pointed to the meeting on Climate Change and Official Statistics to be held in Oslo in April 2008. He also mentioned the work of the London Group on Environmental-Economic Accounting and the importance of cooperation and exchange of findings between the London Group and the Oslo Group. He quoted the agreement between him and the chair of the London Group. Mr. Ljones

emphasized that the 3rd meeting of the Oslo Group is a continuation of the work done during the previous two meetings of the group and wished participants fruitful deliberations during the next three days.

In her inauguration remarks Ms. Martina Schuster, Head of Division, Environmental Economics, Energy Policy, Ministry of Agriculture, Forestry, Environment and Water Affairs, stressed the importance of good quality energy statistics in the combat against climate change. She talked about sharing of burdens, both in effort and connected with monetary burdens and monetary flows. She stated that updating of the handbooks on energy statistics is important. The Ministry of Agriculture, Forestry, Environment and Water Affairs offered the participants of the meeting a city tour on Tuesday.

The meeting proceeded according to the agenda and was attended by 45 participants. Section 5 of this report contains the list of participants.

2. Findings and conclusions

The Oslo Group:

2.1 General

1. Expressed appreciation of the Statistics Austria hospitality, excellent logistical support as well as the valuable contributions by its staff to the discussion of the substantive issues;
2. Welcomed the participants and expressed appreciation for the papers and presentations prepared for the meeting in accordance with the agreement reached in New Delhi during the 2nd meeting of the Oslo Group;
3. Urged participants to use more actively the electronic discussion forum created by the Oslo Group Secretariat.

2.2 Scope of official energy statistics

4. Confirmed that the Oslo Group should take a holistic approach to energy statistics to ensure its firm placing as a part of official statistics. This implies continuation of work on basic energy statistics, energy balances and energy accounts. All three are important in their own right and should be seen as complementary;
5. Concluded that strengthening of energy statistics as an effective part of official statistics does not necessarily mean that more of them have to be produced by a centralised national statistical office. Many national solutions can be used. The main point is that the quality principles for the production of official statistics are followed for energy statistics;
6. Encouraged transparency in principles and legal foundation for coordinating official energy statistics in a decentralized system.
7. Agreed in this connection that the quality dimensions should be clearly articulated and promoted in the revised international recommendations;

8. Welcomed the UNSD report on Global Assessment of Energy Statistics and Balances and highlighted the importance of describing the roles of national statistical offices and other national agencies in compilation of the energy statistics;
9. Agreed that during the current revision process the Oslo Group should give priority to basic energy statistics and balances as the most needed for policy making in majority of countries and providing the basis for further analysis and compilation of energy accounts;
10. Concluded that more attention should be paid to the needs and capabilities of developing countries and welcomed the UNSD initiative to organize an International Workshop on Energy Statistics (tentatively Q4 2008) to provide an additional opportunity for developing countries to express their views and propose solutions to the issues under discussion (see also Section 2.4);
11. Confirmed that the Oslo Group will be active in the work on energy accounts and cooperate in this respect with the London Group on Environmental Accounting based on the understanding expressed in a joint letter by Chairs of the Oslo Group and the London Group and under the coordination of the UN Committee of Expert on Environmental-Economic Accounting (UNCEEAA);

2.3 Scope of the International Recommendations for Energy Statistics (IRES) and the Energy Statistics Compilers Manual (ESCM)

12. Endorsed the UNSD proposal to develop *International Recommendations for Energy Statistics* (IRES) and to submit IRES to the UN Statistical Commission for adoption at its 41st session (2010); the Group recognized, however, that the time schedule is very tight and effective work of all members will be required to meet the deadline;
13. Agreed that IRES should focus on basic energy statistics and energy balances;
14. Concluded that a follow-up publication *Energy Statistics Compilers Manual* (ESCM) should be prepared as soon as possible (ideally by the end of 2010) to provide additional guidance to data compilers by describing good practices and discussing technical matters not covered in IRES (requested UNSD to prepare an initial outline of ESCM and present it to the 4th Oslo Group meeting);
15. Requested UNSD to amend the draft outline of IRES presented at the meeting to reflect the views of the Group expressed during the meeting and to submit it for electronic discussion on the Oslo Group Electronic Discussion Forum;
16. Agreed that such topics as basic concepts, definitions, classifications, statistical units and data items covering flows and stocks as well as data sources, data collection, data compilation strategies, institutional arrangements, data quality, metadata, institutional arrangements, and dissemination (including core tables) should be addressed in IRES in order to provide a firm foundation for energy statistics as a part of official statistics;
17. Welcomed the InterEnerStat commitment to actively participate in preparation of IRES and, in particular, welcomed the IEA work on harmonization of definitions of energy products;

18. Concluded that IRES should contain a chapter on bridging energy balances and energy accounts. Took note, in this connection, that UNSD plans to prepare a complementary document *System of Environmental-Economic Accounting for Energy* (SEEA-E) which will provide the international statistical standard for energy accounts.
19. Was informed by UNSD that the current UN handbooks on energy statistics have been converted from pdf- to word- format in order to facilitate the use of the text in the issue papers of the Oslo Group and the drafting of IRES. The documents will be made available on the Oslo Group Electronic Discussion Forum by April 2008.

2.4 Organization of the revision process

20. Welcomed the UNSD role to: coordinate the revision process, consolidate and edit inputs into the successive versions of the draft IRES and ESCM;
21. Agreed that preparation of IRES should include the following:
 - a) Preparation of an annotated outline of the IRES and a list of issues for a worldwide consultation (end of March 2008);
 - b) Worldwide consultation with countries on the outline and list of issues (April-May 2008);
 - c) Conduct of an International Workshop on Energy Statistics to focus on the user needs and data collection capabilities, especially of the developing countries (Q4 of 2008);
 - d) Preparation of the first version of IRES and its review by the 4th meeting of the Oslo Group (February 2009);
 - e) Review of the first version of IRES by InterEnerStat at its next meeting
 - f) Worldwide consultation on the provisional draft IRES (May-June 2009);
 - g) Preparation of the amended draft of IRES, its review and endorsement by the UN Expert Group on Energy Statistics [Q4, 2009]; and
 - h) Submission of the final draft of IRES to the 41st session of the UN Statistical Commission for adoption (December 2009).
22. The International Workshop on Energy Statistics will be an important milestone to take stock of the progress in the preparation of IRES.

2.5 Guiding principles for the preparation of IRES

23. The Oslo Group agreed that the preparation of IRES will be guided, inter alia, by the following principles:
 - (i) needs of major user groups should be considered as a starting point and be taken into account to the maximum extent possible to ensure that the compiled data are policy relevant, meet the needs of the energy community (both

- producers and users) and provide a solid foundation for integration of energy statistics into a broader accounting framework;
- (ii) the revision should be conducted in close consultation with both national statistical offices and national energy agencies as well as with the relevant international and supranational organizations;
 - (iii) while providing recommendations on data items and their definitions care should be taken that (a) necessary data sources are available in at least some countries to compile such data, (b) collection of such data items will not create significant additional reporting burden, and (c) collection procedures can be implemented by most countries to ensure improved cross-country comparability;
 - (iv) the revision should be seen in the context of promoting an integrated approach in the national statistical system which requires, to the extent possible, the use of harmonized concepts, classifications, and standardized data compilation methods in order to achieve maximum efficiency and minimize reporting burden;
 - (v) additional guidance on more practical/technical matters to assist countries in the implementation of IRES should be treated in ESCM. During the revision process, the Oslo Group will decide on what will be covered in ESCM and to what extent.

2.6 Selected issues of energy statistics

The Oslo Group:

- 24. Welcomed the papers prepared for the meeting and, in general, to facilitate the discussion, recommended that, for the next meeting, issue papers be prepared in such a way that they cover: the treatment of the specific issue in the UN handbooks on energy statistics; current treatment in countries and in other energy statistics manuals (in particular the IEA/Eurostat manual); and suggested recommendations on how to solve the specific issue;
- 25. Took note on the template for Best Practices prepared by Statistics Norway and encouraged countries to provide comments on the template and to submit their country practices to the Oslo Group Electronic Discussion Forum.
- 26. Recommended that IRES will cover concepts and methods for wood pellets, firewood and biomass, given their increased consumption in several countries in the recent years.
- 27. Agreed that basics concepts and laws of thermodynamics should guide statisticians in their discussion of various conceptual and data compilation issues and their importance and acknowledgment should be included in IRES;
- 28. Agreed that there is a need to develop clear definitions and classifications for renewable and non-renewable energy sources. In addition, issues related to the classifications/definitions may need to be addressed taking into consideration

- environmental issues (for example, in the case of municipal waste or any waste from potentially unsustainable use of biomass and/or unclear mixed use of fossil fuels and renewables);
29. Took note of the presentation on the net v.s. gross calorific values which compared the recommendations on the subject in the UN handbooks with those used by IEA and IPCC. The Oslo Group agreed that the default calorific values and gross/net ration should be reviewed taking into account work done by IEA in harmonizing calorific values for OECD countries;
 30. Took note of the presentation on solar energy and, in general, agreed that there is a need to review reporting practices in solar heaters and solar energy heat pumps. In the case of solar thermal power plant (STPG), it was suggested that the heat produced would form the primary production and that the gross electricity and heat (if delivered/used) generated from the heat would form the secondary production;
 31. Took note of the presentation on tracking and accounting nuclear energy. The Group recognized that the tracking/accounting for the full nuclear fuel cycle is too detailed and falls outside the scope of IRES. A proposal for the scope of nuclear fuels in IRES will have to be developed in close cooperation with the International Atomic Energy Agency.
 32. Took note on the statistical treatment of heat pumps in Sweden and concluded that a review of country practices is needed for the formulation of recommendations in IRES. Country practices in the statistical treatment of heat-pumps will be an important contribution to ESCM;
 33. Welcomed the concept of a common energy statistics questionnaire among international organization (for example, with customized modules for selected regions) to reduce response burden to countries. The Oslo Group encouraged IEA and UNSD to work towards it;
 34. Recognized that the terminology used in energy statistics and in other area of official statistics (for example, in national accounts) may not be fully consistent. The Group recognized that, although ideal, a common terminology may not be achievable in practice. To this respect, it was recommended that IRES contain clear definitions and consistent usage of terms as well as links of terminology used in basic energy statistics with that in other areas of official statistics especially for terms which have a contextual meaning (e.g. the term “stock” has different definitions in energy balances and energy accounts);
 35. Recognized the importance in the preparation of IRES of harmonized definitions and encouraged IEA and UNSD to give this the highest priority; In this respect, the Oslo Group welcomed the offer from IEA to review the definition of energy products from various international organizations (available on InterEnerStat website) and prepare a proposal for harmonization;
 36. Recognized the importance of taking into account in the harmonization of definitions the legal definitions when they exist;
 37. Recognized that building a common system of energy supply and use data (database/data warehouse) to address needs of all users is an example of a good

practice: countries may wish to follow subject to their needs, resources and institutional framework; the Oslo Group supported the view that a more detailed elaboration of such a system should be described in ESCM;

38. Concluded that developing bridge tables between energy balances and energy accounts/national accounts is an important part of the Oslo Group work programme and expressed appreciation of the work done in this direction by Austria, Netherlands and Norway; further contributions are encouraged. It was agreed that a sub-group of the Oslo Group be established to work on this matter. The sub-group will contribute to the work of the drafting group of the *System of Environmental-Economic Accounting for Energy* (SEEA-E) with focus on bridge tables. A more elaborated exposition of good practices in this area will be part of the ESCM;
39. Discussed principles for dissemination. Users should be treated equally when it comes to access to statistics and the dissemination should be user friendly.
40. Encouraged the UNSD to evaluate alternatives for online publication of the IRES and ESCM that would facilitate online reading.

2.7 Follow-up actions up to 4th meeting in 2009

41. Requested that UNSD in cooperation with the Oslo Group Secretariat prepare an amended outline of IRES together with a list of issues for the global consultation and place them on the Oslo Group Electronic Discussion Forum (by end of March 2008) for further discussion with the Group and finalization (by mid April 2008);
42. Appreciated the UNSD invitation to attend the International Workshop on Energy Statistics and encouraged individual members to participate in the Workshop;
43. Agreed that the Oslo Group Secretariat, in cooperation with UNSD, will compile by the end of March 2008 a draft list of tasks for the members of the Group for comments. The list of tasks will consist of a list of issues to be addressed in issue papers by member of the Group by September 2008. The papers will be the basis for discussion during the International Workshop on Energy Statistics (Q4 2008) and the 4th Oslo Group meeting.
44. Agreed to focus the 4th meeting of the Group to review of the draft IRES.

3. Time and place of the next meeting

45. Accepted with thanks the invitation of Statistics Canada to hold the fourth meeting of the Oslo Group in Ottawa, Canada on 2.-4. February 2009.

Agenda

Monday 4 February

8:30- 9:15: Registration

9:15-10:00: Session 1: Inauguration

- a. Welcome address
Prof. Peter Hackl, Director General, Statistics Austria
- b. Opening address from the chair of the Oslo Group
Mr. Olav Ljones, Chair of the Oslo Group, Deputy Director General, Statistics Norway
- c. Inauguration
Mrs. Martina Schuster, Head of Division Environmental Economics, Energy Policy, Ministry of Agriculture, Forestry, Environment and Water Affairs

10:00-12:00: Session 2: Revision of UNSD handbooks and manuals on energy statistics

Chair: Mr. Wolfgang Bittermann

- a. Status of the work in the Oslo Group
- [Presentation](#)
Mr. Atle Tostensen, Senior Adviser, Secretariat leader for the Oslo Group, Statistics Norway
- b. International Recommendations for Energy Statistics (IRES): the revision process, guiding principles, scope and contents
- [Presentation](#)
- [Paper](#)
Mr. Vladimir Markhonko, Chief of Trade Statistics Branch United Nations Statistical Division
- c. Scope of energy accounts in the revised SEEA and SEEA-E
- [Presentation](#)
- [Paper](#)
Ms. Ilaria DiMatteo, OIC, Energy Statistics Section, United Nations Statistical Division
- d. Electronic searchable solution for the new manuals
- [Presentation](#)
Ms. Sara Øvergaard, Senior Executive Officer, Statistics Norway

12:00-13:00: Lunch offered by Statistics Austria

13:00-14:00: Session 3: Austria's Energy Statistics

Chair: Ms. Sara Øvergaard

- a. Join all forces: the successful cooperation between data providers, statistics compilers, and statistics users in Austria
- [Presentation](#)
Mr. Wolfgang Bittermann, Head of Energy Statistics, Statistics Austria

- b. Austrian Statistics on Electricity and Gas
 - [Presentation](#)
 - Mr. Hans Nischkauer, Energie-Control GmbH
- c. Austrian Air Emission Inventory - Use of Energy Statistics
 - [Presentation](#)
 - Mr. Stephan Poupa, Environmental Agency
- d. Use of energy statistics data in environment statistics
 - [Presentation](#)
 - Mr. Sacha Baud, Statistician, Statistics Austria

14:00-15:45: Session 4: Background, settings, borderline and conceptual framework

Chair: Mr. Olav Ljones

- a. From Concepts and Methods in energy statistics to IRES: Purposes and organization of a worldwide consultation
 - [Presentation](#)
 - [Paper I](#)
 - [Paper II](#)
 - Mr. Vladimir Markhonko, Chief of Trade Statistics Branch, United Nations Statistical Division
- b. Proposal for definitions
 - [Presentation](#)
 - [Paper](#)
 - Mr. Atle Tostensen, Senior Adviser, Secretariat leader for the Oslo Group, Statistics Norway
- c. Thermodynamics for energy statisticians
 - [Presentation](#)
 - [Paper](#)
 - Mr. Paul Westin, Head of Unit, Swedish Energy Agency

15:45-17:00: Session 5: Best practice

Chair: Ms. Ilaria DiMatteo

- a. Best practice template
 - [Presentation](#)
 - [Template](#)
 - Ms. Sara Øvergaard, Senior Executive Officer, Statistics Norway
- b. The Danish Wood Pellet Survey
 - [Presentation](#)
 - Mr. Peter Dal, Senior Advisor, Danish Energy Authority
- c. Organizational structure of energy statistics in the Russian Federation
 - [Presentation](#)
 - [Paper](#)
 - Mr. Alexander Goncharov, Deputy Director, Department of Foreign Statistics and International Cooperation, Federal State Statistics Service (Rosstat)

19:00 Organized dinner (at your own expense, registration Monday morning)

Tuesday 5 February

9:00-12:00: Session 6: Define scopes of official energy statistics

Chair: Ms. Maria Mantcheva

- a. The scope of official energy statistics
 - Presentation
 - [Paper](#)Mr. Olav Ljones, Chair of the Oslo Group, Deputy Director General, Statistics Norway
- b. Results of the Global Assessment of Energy Statistics and Balances
 - [Presentation](#)
 - [Paper](#)Ms. Ilaria DiMatteo, OIC, Energy Statistics Section, United Nations Statistical Division
- c. Requirements, methodologies and data collection strategies on energy statistics
 - [Presentation](#)
 - [Paper](#)Mr. Carlos Roberto López-Pérez, Director of Natural Resources and Environmental Statistics, National Institute of Statistics, Geography and Informatics
- d. Data collection issues and procedures
 - [Presentation](#)
 - [Paper](#)Mr. P. K. Ray, Additional Director General, Central Statistical Organization
- e. Quality control and assurance
 - [Presentation](#)Mr. Justin Lacroix, Assistant Director, Manufacturing, Construction and Energy Division, Statistics Canada
- f. Dissemination
 - [Presentation](#)
 - [Paper](#)Mr. Martin Howley, Manager, Energy Policy Statistical Support Unit, Sustainable Energy Ireland

12:00-13:00: Lunch (at your own expense)

13:00-14:45: Session 7: Users' needs

Chair: Mr. Jean-Yves Garnier

- a. Users needs
 - [Presentation](#)
 - [Paper I, National Accounts](#)
 - [Paper II, Emissions Inventory](#)Ms. Jun Elin Wiik Toutain, Senior Adviser, Statistics Norway

- b. London Group and Environmental Accounting
 - [Presentation 1](#)
 - Mr. Mark de Haan, Chair London Group on Environmental Accounting, Statistics Netherlands
 - [Presentation 2](#)
 - [Paper](#)
 - Ms. Ilaria DiMatteo, OIC, Energy Statistics Section, United Nations Statistical Division
- c. Energy accounts and environmental economic instruments
 - [Presentation](#)
 - [Paper](#)
 - Ms. Viveka Palm, Coordinator environmental accounts, SCB

14:45-15:30: Session 10: Definitions and conversion factors

Chair: Mr. Justin Lacroix

- a. Status of the InterEnerStat Work with focus on Harmonisation
 - [Presentation](#)
 - Mr. Jean-Yves Garnier, Head of Energy Statistics Division, IEA
- b. Gross and net calorific value
 - [Presentation](#)
 - Ms. Karen Treanton, Head of section for annual statistics and balances, energy prices and taxes, energy statistics division, IEA

18:15-21:00: Sightseeing in Vienna offered by the Ministry of Agriculture, Forestry, Environment and Water Affairs. Snacks will be served

Wednesday 6 February

9:00-11:30: Session 8: Basic energy statistics

Chair: Mr. Anders Jönsson

- a. Geothermal energy
 - [Presentation](#)
 - [Paper](#)
 - Mr. Paul Westin, Head of Unit, Swedish Energy Agency
- b. Solar energy
 - [Presentation](#)
 - Mr. Andrii Gritsevskiy, Energy System Analyst, IAEA
- c. Biomass statistics - A lot of problems and two solutions
 - [Presentation 1](#)
 - Mr. Wolfgang Bittermann, Head of Energy Statistics, Statistics Austria
 - [Presentation 2](#)
 - Mr. Bernard Lang, Austrian Energy Agency
 - Mr. Dietmar Hagauer, DI, Austrian Energy Agency
- d. Renewable - non-renewable energy
 - [Presentation](#)
 - Mr. Andrii Gritsevskiy, Energy System Analyst, IAEA

- e. Tracking
 - [Presentation](#)
 - Mr. Andrii Gritsevskiy, Energy System Analyst, IAEA

11:30-12:30 Lunch offered by Statistics Austria

12:30-14:10 Session 9: Energy supply and use

Chair: Mr. Vladimir Markhonko

- a. One common system of energy supply and use that addresses all users' needs
 - [Presentation](#)
 - Ms. Jun Elin Wiik Toutain, Senior Adviser, Statistics Norway
- b. The multipurpose system – what we want to obtain
 - [Presentation](#)
 - Ms. Ann Christin Bøeng, Senior Adviser, Statistics Norway
- c. Austria's work on developing bridge tables between energy balances and the SNA
 - [Presentation](#)
 - Ms. Barbara Mayer, Statistician, Statistics Austria
- d. Basic Energy Statistics versus Energy Accounts SNA
 - [Presentation](#)
 - [Paper](#)
 - Mr. Hans Pouwelse, Senior researcher, Statistics Netherlands
- e. Measuring the oil sector in National Accounts
 - [Presentation](#)
 - Ms. Maria Mantcheva, Senior Economist, Statistics Department, IMF

14:10-17:00: Session 11: Summary and the way forward – List of issues for 2008

- a. Draft of list of issues and important milestones in 2008
 - Ms. Sara Øvergaard, Senior Executive Officer, Statistics Norway
- b. Summary of the meeting, and the future work program of the Oslo Group
 - Mr. Vladimir Markhonko and Mr. Olav Ljones
- c. The fourth meeting of the Oslo Group on Energy Statistics in Ottawa, Canada
 - Mr. Justin Lacroix, Assistant Director, Manufacturing, Construction and Energy Division, Statistics Canada

List of Participants

Australia

1. Mr. Graeme Brown
Director
Australian Bureau of Statistics
Australia
e-mail: graeme.brown@abs.gov.au

Austria

2. Mr. Bernhard Lang
Austrian Energy Agency
Vienna, Austria
e-mail: bernard.lang@energyagency.at
3. Mr. Stephan Sharma
Dr.
Energie-Control
Vienna, Austria
e-mail: stephan.sharma@e-control.at
4. Mr. Dietmar Hagauer
Dipl.-Ing.
Austrian Energy Agency
Vienna, Austria
e-mail: dietmar.hagauer@energyagency.at
5. Mr. Franz Schörg
Ing. Energie-Control GmbH
Vienna, Austria
e-mail: franz.schoerg@e-control.at
6. Mr. Hans Nischkauer
Energie-Control GmbH
Vienna, Austria
e-mail: hans.nischkauer@e-control.at
7. Mr. Sacha Baud
Statistician
Statistics Austria
Vienna, Austria
e-mail: sacha.baud@statistik.gv.at
8. Mr. Stephan Poupa
Umweltbundesamt GmbH
Vienna, Austria
e-mail: stephan.poupa@umweltbundesamt.at
9. Mr. Wolfgang Bitterman
Head of Energy Statistics
Statistics Austria
Vienna, Austria
e-mail: wolfgang.bitterman@statistik.gv.at

10. Mrs. Barbara Mayer
Statistician
Statistics Austria
Vienna, Austria
e-mail: barbara.mayer@statistik.gv.at

Canada

11. Mr. Justin Lacroix
Assistant Director
Manufacturing, Construction and Energy Division
Statistics Canada
Ottawa, Canada
e-mail: justin.lacroix@statcan.ca

Denmark

12. Mr. Peter Dal
Senior Advisor
Danish Energy Authority
Copenhagen, Denmark
e-mail: pd@ens.dk
13. Mr. Thomas Olsen
Head of Section
Statistics Denmark
Copenhagen, Denmark
e-mail: tol@dst.dk

Finland

14. Ms. Leena Timonen
Senior Statistician
Statistics Finland
Tilastokeskus, Finland
e-mail: leena.timonen@stat.fi

India

15. Mr. P.K Ray
Additional Director General
Central Statistical Organization
India
e-mail: pk.ray@nic.in

Ireland

16. Mr. Martin Howley
Manager
Energy Policy Statistical Support Unit
Sustainable Energy Ireland
Cork, Ireland
e-mail: martin.howley@sei.ie

Mexico

17. Mr. Carlos Roberto López-Pérez
Director of Natural Resources and
Environmental Statistics
National Institute of Statistics, Geography and
Informatics
Aguascalientes, Mexico
e-mail: roberto.lopez@inegi.gob.mx

Netherlands

18. Mr. Hans Pouwelse
Senior Researcher
Statistics Netherlands
Voorburg, Netherlands
e-mail: jpwe@cbs.nl

19. Mr. Mark de Haan
Chair London Group on Environmental
Accounting
Statistics Netherlands
Voorburg, Netherlands
e-mail: mhaa@cbs.nl

Norway

20. Mr. Atle Tostensen
Senior Adviser
Statistics Norway
Oslo, Norway
e-mail: att@ssb.no

21. Mr. Olav Ljones
Deputy Director General
Statistics Norway
Oslo, Norway
e-mail: olj@ssb.no

22. Ms. Ann Christin Bøeng
Senior Adviser
Statistics Norway
Oslo, Norway
e-mail: abg@ssb.no

23. Ms. Jun Elin Wiik Toutain
Senior Adviser
Statistics Norway
Oslo, Norway
e-mail: jwt@ssb.no

24. Ms. Sara Øvergaard
Senior Executive Officer
Statistics Norway
Oslo, Norway
e-mail: ara@ssb.no

Poland

25. Mr. Szymon Peryt
Specialist
Central Statistical Office
Warszawa, Poland
e-mail: s.peryt@stat.gov.pl

Russia

26. Mr. Alexander Goncharov
Deputy Director of Department
ROSSTAT
Moscow, Russia
e-mail: goncharov@gks.ru

27. Mr. Alexander Bykov
Chief of Division
ROSSTAT
Moscow, Russia
e-mail: bykov@gks.ru

South Africa

28. Mr. Jeff Subramoney
Director
Department of Minerals and Energy
Pretoria, South Africa
e-mail: jeff.subramoney@dme.gov.za

29. Mr. Mtutuzeli Benya
Senior Manager
National Energy Regulator of South Africa
(NERSA)
Pretoria, South Africa
e-mail: mtutuzeli.benya@nersa.org.za

30. Mr. Ntuthuzelo Fikela
Chief Energy Officer
Department of Minerals and Energy
Pretoria, South Africa
e-mail: ntuthuzelo.fikela@dme.gov.za

31. Ms. Anemé Malan
Manager: Application of National Accounts
Statistics South Africa
Pretoria, South Africa
e-mail: anemem@statssa.gov.za

Sweden

32. Mr. Anders Jönsson
Head of Energy Statistics
Swedish Energy Agency
Eskildstuna, Sweden
e-mail: anders.jonsson@energimyndigheten.se

33. Mr. Paul Westin
Head of Unit
Swedish Energy Agency
Eskilstuna, Sweden
e-mail: paul.westin@energimyndigheten.se

34. Ms. Viveka Palm
Coordinator Environmental Accounts
Statistics Sweden
Stockholm, Sweden
e-mail: viveka.palm@scb.se

United Kingdom

35. Mr. Iain MacLeay
Deputy-Director Energy Statistics
UK Department for Business Enterprise and
Regulatory Reform
London, UK
e-mail: iain.macleay@berr.gsi.gov.uk

International Organizations

IAEA

36. Andrii Gritsevskiy
Energy System Analyst
International Atomic Energy Agency
Vienna, Austria
e-mail: a.gritsevskiy@iaea.org

IEA

37. Mr. Jean-Yves Garnier
Head of Energy Statistics Division
International Energy Agency
Paris, France
e-mail: jean-yves.garnier@iea.org

38. Ms. Karen Treanton
Head of Section
International Energy Agency
Paris, France
e-mail: karen.treanton@iea.org

EUROSTAT

39. Mr. Pekka Loesonen
Principal Administrator
Eurostat
Luxembourg
e-mail: pekka.loesonen@ec.europa.eu

40. Mr. Roeland Mertens
Principal Administrator
Eurostat
Luxembourg
e-mail: roeland.mertens@ec.europa.eu

IEFS

41. Mr. Bruno Castellano

Energy Analyst
International Energy Foundation Secretariat
Riyadh, Saudi Arabia
e-mail: bruno.castellano@iefs.org.sa

42. Mr. Said Nacet
Director Energy Division
International Energy Foundation Secretariat
Riyadh, Saudi Arabia
e-mail: said.nacet@iefs.org.sa

IMF

43. Ms. Maria Mantcheva
Senior Economist
International Monetary Foundation
Washington DC, USA
e-mail: mmantcheva@imf.org

UNSD

44. Mr. Vladimir Markhonko
Chief of Trade Statistics Branch
United Nations Statistical Division
New York, USA
e-mail: markhonko@un.org

45. Ms. Ilaria DiMatteo
Officer-in-Charge
Energy Statistics Division
United Nations Statistical Division
New York, USA
e-mail: dimatteo@un.org