Manual (and Training) for Statistics on Energy Consumption in Households – MESH

Duncan Millard,
Chief Statistician,
Department of Energy and Climate Change (DECC), UK
Overview

• Why MESH

• Working methods and plans

• Manual

• Training

• Dissemination

• Lessons learnt

Energy stats – often collected by multiple agencies and often not solely the NSI
Why a Manual for Statistics in the household sector?

- Household energy consumption: 27% in 2010, important energy saving potential
- New EU energy policy priorities ⇒ more detailed information on energy

Initial developments

- Task Force 2008: to set out recommendations on the basic information
- SECH 1.5 M€ for household sector statistical studies in 17 countries

Agreed Commission proposal (now)

- Household energy consumption by fuel broken down by: Space heating; Space cooling; Water heating; Cooking; Other electrical appliances; and Other end-uses.

MESH – agreed in 2011 to produce manual and training to support new work

A project established with real deliverables to meet a key need from all NSI
Wider and local needs

• Increased focus on importance of energy efficiency and energy use at EU level
  — Renewables Directive
  — New Energy Efficiency Directive
  — Increased energy prices
  — Energy security

• Need to better understand energy efficiency and energy use – can include
  — Monitoring national or local policies
  — Understand further potential
  — Growth/investment

• But - Constraints on expanding statistical work
• So - Need smart solutions
Project’s Objectives

1. **Identifying the situation and the EU MS users’ needs** in relation to the TF 2008.
2. A **global inventory of practices** for the statistics in the residential sector, at EU level and wider.
3. A **manual** providing greater insight into the energy use in the residential sector, the different statistical techniques applied, the good practices and methodologies used and the suggestions of options to use according to the users’ starting-off situation.
4. A **training session** for all the users in the MS to enable them to develop future detailed information requirements for the residential sector.
5. **Dissemination of the information, the manual and the good practices** found.

**NSi consortium**

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<th>Participant name</th>
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Produced by MESH team with and for all EU Member States
The MESH team (around 100 years of knowledge of energy)

Jesús Pedro García Montes, IDAE, Spain

Roeland Mertens, Eurostat

Mojca Suvorov, SORS, Slovenia

Duncan Millard, DECC, UK

Wolfgang Bitterman, ST AT, Austria

Julian Prime, DECC, UK

Jens Nielsen, CBS, Netherlands

Pilar de Arriba Segurado, IDAE, Spain (not shown)
## Timetable

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Notes:
- Tasks
- Word package
- Working meetings and milestones
- Reports
Engagement with other NSI

• Contributing partners: Germany, Poland

• Initial survey of NSI (and others) on approach to measurement (90% response)

• Newsletters to all NSI every 4 months

• Presentations on work to annual ESWG (June 2012, 13 and final in 14)

• Shared drafts of definitions Feb 13 to all NSI (comments from 10)

• Shared drafts of manual to all May/June 13 (comments from 7)

• All NSI invited to training

• Survey of needs prior to training

• Copies of manual sent to all NSI

• All training material and manual on CROS and Eurostat website

• Also engagement with universities re elements (eg fuel poverty)
Manual for Statistics on Energy Consumption in Households
Contents of the Manual

• Chapters of Manual
  – Chapter 0 - Background
  – Chapter 1 - Situation of energy statistics in the household sector in the EU
  – Chapter 2 - Definitions
  – Chapter 3 - Description of methods
  – Chapter 4 - Practical examples methods
  – Chapter 5 - Country case studies
  – Chapter 6 - Going beyond the regulation
  – Chapter 7 - Other issues
Chapter 1: Situation of Household Sector Energy Statistics in the EU

Data Acquisition Systems by Types in the EU

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Task Force 2008: Coverage Groups

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Task Force 2008: Coverage in the EU

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<td>Fuel poverty</td>
<td>10%</td>
</tr>
</tbody>
</table>

- Good coverage TF 2008 proposals but there are still many gaps
- Need to standardize that allow for comparisons between the energy consumption of the EU countries
- Lack of transfer of knowledge between different Member States
Chapter 2 Definitions:

- to establish common boundaries for the household sector,
- to define major energy end-uses in the households,
- to define other energy consumption relevant variables and basic terms used in the Manual.

Chapter 3: Description of Methods (Theory)

Strength & Weaknesses of each methodology

- Household and Business (supplier) surveys
- Administrative data
- In situ measurements
- Modelling

This chapter is a source of inspiration, a guide to decision making activities

This chapter is not: A schoolbook that provides detailed explanations or a cookbook that sets out step by step instructions
# Chapter 4: Examples of Methods

Examples to provide: inspiration, learning, greater level of detail, dealing with common difficulties, and make it easy to find more information

<table>
<thead>
<tr>
<th></th>
<th>Number of examples</th>
<th>Countries</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer surveys</td>
<td>5</td>
<td>DE, AT, SI, ES, UK</td>
<td>- Face to face surveys</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Mail surveys</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>- CATI/CAPI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Panel survey</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Interviewer training</td>
</tr>
<tr>
<td>Business surveys</td>
<td>4</td>
<td>UK</td>
<td>- Electricity consumption</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>- Data validation</td>
</tr>
<tr>
<td>Administrative data</td>
<td>6</td>
<td>NL, ES, UK</td>
<td>- Client registers of energy companies</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Use of management information data</td>
</tr>
<tr>
<td>Modelling</td>
<td>3</td>
<td>AT, UK</td>
<td>- Cambridge Housing Model</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Data validation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Second residences</td>
</tr>
<tr>
<td>In Situ measurements</td>
<td>4</td>
<td>SE, ES, AT, UK</td>
<td>- Electricity metering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Temperatures</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- U-values</td>
</tr>
</tbody>
</table>
Chapter 5 case studies

• Shows different solutions and approaches to the same issue: production of energy statistics on residential sector
• Transfer and to share of knowledge and experiences between MS
• To help the MS to incorporate technical solutions already validated
• Highlights the importance of combining methods

Case studies presented

<table>
<thead>
<tr>
<th></th>
<th>Austria</th>
<th>Germany</th>
<th>The Netherlands</th>
<th>Poland</th>
<th>Slovenia</th>
<th>Spain</th>
<th>United Kingdom</th>
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<tbody>
<tr>
<td>Surveys</td>
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<td>Administrative data</td>
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<td>X</td>
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<td>X</td>
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<tr>
<td>“In situ” measurements</td>
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<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Integrated approach</td>
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<td>X</td>
<td>X</td>
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</tr>
</tbody>
</table>
Each case study covers

- **Why**: drivers nationally and internationally that have raised the importance of household energy consumption and related data, it include drivers to monitor the implications of policy
- **How**: summary of processes/methods developed to gather these data, including interaction and links between approaches
- **What**: summary of the key data collected and time lags, etc.
- **Issues**: what issues arose with collecting the data – e.g. poor response, conflicting data, etc. and how these were overcome. Brief overview on quality and accuracy
- **Use**: how have the data been used to monitor and develop policy
- **Coverage**: assessment of coverage against the key data needs highlighted by the Task Force 2008
- **Future plans**: that is expected to develop in the future
Chapter 6 – Going beyond the Regulation

• A look to the future: how countries may choose to expand data collection to satisfy their needs and the needs of their users

• Recognising benefits in comparability of data across countries if common definitions and breakdowns of variables can be used

• Explore ways to develop a more detailed understanding above the Regulation of household energy consumption

How to expand data collection

• Establishing definitions in 2 or 3 levels, where:
  ❁ Level 1 is the broadest and should be the level that all countries can aim
  ❁ Levels 2 and 3 provide further detail

• In two sections:
  ❁ socio demographic variables
  ❁ energy and energy efficiency variables
Chapter 7 other issues

- Show households in wider context
  - Link to Renewables Energy Directive
  - Wider needs and benefits from analysis
  - Households as consumers of energy: understanding their use; costs to them

- Explore Fuel Poverty
- Maximise the use of data
  - View in different ways, wider admin data and data matching
- **Not** part of changes in Regulation – but important to consider all issues of households
Training

Provided by MESH team to 37 staff from most MS in Madrid Dec 2013

Aims

To bring manual to life

To share different approaches and discuss them

To present new ideas of obtaining data

To develop knowledge and ideas and champions in all EU states

To held enable all states to provide data on household energy consumption – that required by Stats Regulation and ideas for more as needed in own countries
Key learning needs – input from MS prior to training

What are your personal objectives for attending this training?

- Expanding knowledge and skills
- Gaining new skills and knowledge (new to area)
- Meeting new people, Building networks
- Learning the (technical) language
- Insight to data collection and processing
- Learning from experience of others
- Satisfy new legal needs

What gaps do you have in your knowledge?

- In situ measurements
- Household surveys
- Modeling

What are your organisation/department’s objectives for this training?

- Know best practise of each methods, Advantages and disadvantages,
- Costs of surveys,
- Practical skills
- Compile national data
- Consumption for electrical appliances
- Using data from household certificates in household energy stats
- Biomass consumption
- Developing models
- Ensuring consistent methods/techniques
- Learning from experience of others
The training - Overview

Monday pm – surveys and case studies from Slovenia and Germany

Tuesday am – administrative data including management info data - case study from the Netherlands and learning review

Tuesday pm – In-situ measurement and modelling, case study from Spain and overview of wider issues from Poland

Wednesday am – renewables, fuel poverty and data matching, case studies from Austria and the UK

Wednesday pm – review and action planning, conclusions
Feedback on training (1)

This course

- Helped me improve my knowledge of the subject
- Helped me/my organisation to use the manual effectively
- Provided a good overview of the manual
- Helped me to understand the variety of approaches taken in other countries
- Helped me to understand different approaches to collecting data on household energy use

Strongly Agree | Agree | Neither Agree nor Disagree | Disagree | Strongly Disagree
Feedback on training (2)

Content and Learning Experience

The course has provided me with some greater insights, ideas, tools and techniques that will help me at work

The course was of practical value

The course was relevant to my needs

Please rate the usefulness of exercises

Please rate the content and value of presentations
Dissemination

Manual published and sent to all MS, candidate countries, Energy community, OECD and other int organisations

From training

How do you hope to apply the new skills and knowledge after the training?

• New skills will be helpful for developing the methodology for this household survey.
• Run the next household survey
• Understand limitations and benefits of techniques
• Meeting new legal requirements

How you will apply these skills within your organisation?

• Built into business plans
• Improved communication

How will you cascade the learning to colleagues?

• Write a report and present it with co-workers
• Present key points at a team meeting
• Internal courses
• Share with colleagues in other agencies
Conclusions

Clear need for work and supported by MS so good input from all MS

Real value in meetings, extended to 2 days, good exchange of views, all input welcomed – able to build a real team

Deadlines agreed and met

Innovative management and coordination of project based on the professionalism, flexibility and respect between all partners

Real outputs delivered with long-lasting benefit (e.g. manual with future look and training material established so could be run again)

A great success a quality project delivered on time, under budget
Lessons for ESSnets

Clear objectives with need for the project supported by all MS

Maintain interaction with all MS, seeking their input

Approach developed through project from initial business case—so need flexibility within team to be mirrored in Eurostat

Plan for dissemination and training key—project needs to help all MS

Plan for and carry out evaluation of project and impact

Leadership, respect, co-operation
Thank you – any questions