

Smart Meter Energy Data: Delivering on a Public Interest Purpose

Public Interest Advisory Group
Workshop

Tuesday 14 January 2020

Current government approaches to published data & statistics
for energy consumption

CSE & Sustainability First

Today

1. Welcome & introductions
2. PIAG Phase 2
3. Colleague updates

Main discussion : Current government approaches to published data & statistics for energy consumption

4. BEIS & MHCLG

5. UCL SERL

6. Users of national energy consumption data :

National Grid ESO, Committee on Climate Change,
National Energy Action

PIAG 2 – aims & outputs

Main aims :

- To demonstrate the **additionality** and **public-interest value** which access to granular smart-meter data could deliver - in terms of different public-interest uses and for different public-interest actors.
- Build a stronger evidence-base for BEIS, Ofgem & others through in-depth ‘user-cases’
- Delivered via :
 - Four half-day workshops in 2020 – 14/1; 23/4; 8/7; 11/11.
 - ‘Snap-shot’ papers.
 - A close-down report and event.

PIAG 2 will also :

- Keep the topic of access to smart-meter data for a public interest purpose to the fore
- Disseminate the conclusions & recommendations of PIAG Phase 1 – & track progress.
- Provide continued thought-leadership through an **independent convening** role.
- Through PIAG workshops, continue to provide an active **information exchange**.

PIAG 2 –

Core question on ‘additionality’ of smart-meter data (para 2.3)

‘Against currently available energy data-sources – or other data likely to become available (i.e. due to developments from EDTF , SERL, other pilots/new data-sets) - **how far might increased access to smart-meter data offer *additional analytical insight* in service of the public interest – be this within your own remit, or more widely, for use by others’.**

Four public-interest ‘user-cases’ (para 2.4)

What ‘*additionality*’ would smart-meter data offer ?

- i. **Policy-making : Key energy-consumption data-sets published by government (BEIS, MHCLG, others).** Widely used in analysis within government, by public agencies, universities & third-sector bodies
- ii. **Regulatory & holding to account : Key energy data sets used by Ofgem, regulators, national advisory bodies.** Widely used in analysis by government, public agencies, universities & third sector bodies
- iii. **Local & ‘place-making’ : data available to devolved, regional, metro-mayors, and local government**
- iv. **Heat : applications for heat policy of smart-meter data**

PIAG 2 Framework – each workshop framed by four questions – designed to test ‘additionality’ (para 2.6)

Questions to build an understanding of the **potential additionality** - if any - from a **public-benefit stand-point** of access to more granular smart-meter data :

- i. **What customer-side usage data is available now – and what main published datasets / data sources are informed by this data?**
- ii. **What new usage data is expected to become more widely available in the short to medium term (e.g. monthly meter data, settlement data (*not yet decided*), SERL data, new data from major pilots and trials). From your standpoint, how far might that additional data improve upon existing sources? How far might that data be an effective ‘proxy’ for granular smart meter data?**
- iii. **What might increased access to half-hourly smart meter data offer *in addition to any such new usage data*? (e.g. granular consumption data, tariff data, export data, maximum load data.)**
- iv. **What additional *public interest benefit* might be delivered if customer smart meter usage data becomes available (i.e. as output data via a trusted processor)? What major public-interest ‘data gaps’ could half-hourly smart meter data fill (e.g. on fairness, vulnerability, fuel poverty, distributional impacts, ‘smart inclusion’, net-zero)? Are there public interest benefits at risk of non-delivery absent access to half-hourly data ?**

PIAG 2 – workshop approach

- Workshops to take a high-level & practical approach :
 - Ask **key actors to set out their stall on the questions** . So, start to develop a systematic body of ‘evidence’.
 - Dialogue and ‘test’ in workshops with ‘other users’.
 - After each workshop : a short published ‘snapshot’ to summarise main responses to each question – plus key discussion points (opportunity to feed-back prior to publication)
- Final report : spring 2021 & close-down event.
 - An independent report – but aim for a ‘PIAG Report’ (as per PIAG Phase 1)
 - Editorial responsibility sits with CSE & Sustainability First

PIAG 2 – Who's involved ?

- **Convenors:** CSE & Sustainability First
- **Funding partners as at 1 January 2020 :** Energy Systems Catapult, Electralink, Elexon, Smart DCC, GLA.
- **Others :** BEIS, MHCLG, Ofgem, Citizens Advice, CCC, UCL Smart Energy Research Lab
- **Some workshops :** CAR Ltd; ENA; Energy-UK; Energy Saving Trust; National Infrastructure Commission; National Grid ESO; Northern Powergrid/other DNOs; ONS; Ombudsman Services; Scottish Government; South-East Energy Hub; Smart Energy GB; TechUK; UK Statistics Authority; Information Commissioner; Universities of Exeter & Reading; UKERC; Welsh Government; Which?; Xoserve.

Colleague updates

- **ESC / Energy Data Task Force**
- **Ofgem**
- **BEIS**
- **Citizens Advice**
- **Others**

Session 1 - Government energy consumption data

Iain Macleay. BEIS

- DUKES
- Sub-national energy consumption statistics
- Energy consumption in the UK
- NEED - National Energy Efficiency Data-Framework

Claire Smith. MHCLG

- English Housing Survey
- Energy Performance Certificates

Questions & discussion

Session 2 – Forthcoming consumption data / Current users of GB-wide data

UCL SERL

- **Eoghan Mackenna**

Users of GB-wide energy consumption data

- **National Grid ESO - Kein-Arn Ong**
- **Committee on Climate Change – Rachel Hay**
- **National Energy Action – Matt Copeland**

General Discussion

Future Workshop Dates & AoB

Public-interest 'user-case' - for granular energy consumption data	PIAG Phase 2 workshop dates
Regulatory data Half day	Thursday 23 April 2020 1 pm – 5 pm
Devolved, Regional & Local Government Full-day	Wednesday 8 July 2020 11.00 – 17.00
Heat ? Full day – tbd	Wednesday 11 November 2020 11.00 – 17.00

Thank you !

Smart Meter Energy Data: Public Interest Advisory Group (PIAG)

<https://www.smartenergydatapiag.org.uk/>

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PIAG – Phase 1 Outputs

Nov 2017 – July 2019

- **Phase 1 report** : principles, conclusions & recommendations
- **Inputs to** : BEIS DAPF review, Ofgem settlement reform (data access; TOMs; customer impacts)
- **Developed six public-interest ‘use-cases’** : to help clarify what data needed by whom - at what level of resolution - to meet use-case needs & related privacy considerations
- **Identified possible ‘secure’ routes by which to access smart meter data** for a public-interest purpose
- **Ten practical background papers** : to inform debate (slide 15)
- **PIAG communications** : consciously ‘low key’
- **Other initiatives on smart-meter data-access** : DNO Privacy Plans, UCL’s Smart Energy Research Lab, BEIS / Ofgem Energy Data Task Force.
- **PIAG’s main focus = separate – but linked** : to future proof / leave open potential future routes for data-access for a ‘public interest’ purpose

Public Interest Advisory Group papers

available at <https://www.smartenergydatapiag.org.uk/>

Kick-off stimulus paper	Initial Meeting – 30 November 2017
Working Note	Clarifying what smart meter data could add to the public interest: public interest questions to frame PIAG's work
Stimulus paper 1	Background to ICO Guidance on anonymisation and annex on data access privacy legal framework
Stimulus paper 2	International experience – smart meter data access
Stimulus paper 3	Data ethics – a review of the landscape
Stimulus paper 4	Stakeholder perspectives on smart meter energy data and potential public interest use-cases
Stimulus paper 5	Public interest use-cases: data attributes, data requirements, and associated privacy and access implications
Stimulus paper 6	Consumer research on access to smart meter energy data
Ipsos MORI research report	Customer thinking on privacy in relation to smart meter data for 'public interest' use
Stimulus paper 7	Possible routes to smart meter data for public interest uses
Stimulus paper 8	Capability requirements of public interest data user organisations
PIAG final report	Final Phase 1 paper (Workshop - April 2019. Publication – June 2019)
Annex to PIAG final report	Summary of PIAG project papers