Notification Number: 2013/46/UK

Great Britain Smart Metering Implementation Programme: draft Smart Metering Equipment Technical Specifications Version 2 (SMETS 2).

Date received : 24/01/2013

End of Standstill : Closed

Issue of comments by : Commission

Message

Message 001

Communication from the Commission - SG(2013) D/5271

Directive 98/34/EC

Notificación - Oznámení - Notifikation - Notifizierung - Teavitamine - Γνωστοποίηση - Notification - Notifica - Pieteikums - Pranešimas - Bejelentés - Notifika - Kennisgeving - Zawiadomienie - Notificacão - Hlásenie-Obvestilo - Ilmoitus - Anmälan - Нотификация : 2013/0046/UK - Notificare.

No abre el plazo - Nezahajuje odklady - Fristerne indledes ikke - Kein Fristbeginn - Viivituste perioodi ei avata - Καμμία έναρξη προθεσμίας - Does not open the delays - N'ouvre pas de délais - Non fa decorrere la mora - Neietekmē atlikšanu - Atidėjimai nepradedami - Nem nyitja meg a késéseket - Ma' jiftaħx il-perijodi ta' dawmien - Geen termijnbegin - Nie otwiera opóźnień - Nao inicia o prazo - Neotvorí oneskorenia - Ne uvaja zamud - Мääräaika ei ala tästä - Inleder ingen frist - Не се предвижда период на прекъсване - Nu deschide perioadele de stagnare - Nu deschide perioadele de stagnare.

(MSG: 201300271.EN)

1. Structured Information Line

MSG 001 IND 2013 0046 UK EN 24-01-2013 UK NOTIF

2. Member State

UK

3. Department Responsible

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3. Originating Department

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4. Notification Number

2013/0046/UK - N00E

5. Title

Great Britain Smart Metering Implementation Programme: draft Smart Metering Equipment Technical Specifications Version 2 (SMETS 2).

6. Products Concerned

Gas and Electricity Smart Metering Equipment and In Home Displays

7. Notification Under Another Act

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8. Main Content

The UK Government has introduced requirements on energy suppliers to procure and install smart meters in their domestic and smaller non-domestic customers' premises, with a limited number of exceptions, by the end of 2019. Smart meters must meet the minimum functional requirements defined in the Smart Metering Equipment Technical Specifications (SMETS) in force when they are installed.

The roll-out licence conditions and the first version of the SMETS (SMETS 1) were notified to the Commission on 5 April 2012. The Commission provided comments on this draft, which were reflected in SMETS 1. The roll-out licence conditions came into force on 30 November 2012 (none of the changes proposed in this notification amend these licence conditions). SMETS 1 was designated by the Secretary of State and entered into force on 19 December 2012.

During the development and notification of SMETS 1 it was acknowledged that additional requirements would need to be added to SMETS to achieve full interoperability of equipment. The additional requirements and some associated amendments are included in the second version of the SMETS (SMETS 2), which is the subject of this notification.

Interoperability is dependent on the definition of the communications standards to be used in smart metering equipment. SMETS 2 therefore prescribes that smart metering equipment should as a minimum be capable of communicating using ZigBee SEP v1 and DLMS/ COSEM over a ZigBee network utilising the 2400 – 2483.5 MHz harmonised frequency band. This solution was chosen as it is capable of delivering the full range of functionality that is required to deliver the GB business case – i.e. the functionality described in SMETS – as per the programme timetable to complete mass roll-out by the end of 2019 and the energy third package requirements to deliver electricity smart meters to 80% of domestic premises by 2020. The solution also provides inbuilt testing and certification that would provide increased confidence in achieving interoperability of equipment. DLMS/ COSEM is a European standard and was identified within the M/441 process. The ZigBee protocol has been submitted for consideration as a European standard.

SMETS 2 does not include the WAN communications requirements that were part of SMETS 1. This reflects the UK Government's decisions to explicitly require that a communications hub is installed in consumer premises and that it should be the DCC, rather than the energy suppliers, that provides the communications hubs. The communications hub will interconnect the WAN, which the DCC must provide, and the HAN (and associated smart metering devices) provided by the energy supplier. Placing the responsibility with the DCC should offer clarity of responsibility for communications, reduce issues relating to technical interoperability and simplify business processes, particularly in the areas of installation and change of supplier.

SMETS 2 includes several new functional requirements, in addition to those in SMETS 1, to facilitate the development of smart grids, including:

- the capability to record maximum import demand and export level this w allow Network Operators to manage their infrastructure more effectively:
- the capability to randomise on/off switching of auxiliary load control switches and switching between registers (i.e. of price changes), and to align auxiliary load switching with the switching between registers this would facilitate demand side management; and
- the definition of 'variant' electricity meters which include auxiliary load control switches, boost buttons, multiple measuring element meters and polyphase supplies this would facilitate demand side management.

SMETS 2 includes several additional requirements related to security, for example, public and private keys and the associated cryptographic capabilities must be provided by metering equipment.

The UK will fulfil its obligation under Article 12 of Directive 98/34/EC when these regulations are officially published.

9. Brief Statement of Grounds

The UK Government's vision is for every home and smaller businesses in Great Britain to have smart electricity and, where present, gas meters. Domestic consumers will also be offered an In Home Display (IHD). The roll-out of smart metering systems will play an important role in Britain's transition to a low-carbon economy and help us meet some of the long-term challenges we face in ensuring an affordable, secure and sustainable energy supply. It is also consistent with the European Directives 2009/72/EC and 2009/73/EC, the "energy third package". The roll-out of smart metering systems by energy suppliers in Great Britain will take place in two phases: the Foundation Stage and mass roll-out. The expected gross benefit of smart metering across the domestic and smaller non-domestic is around £18.8 billion, with combined gross costs of around £12.1 billion. This results in an expected net present value benefit of around £6.7 billion over the appraisal period of 2013 to 2030.

The UK Government has concluded that the SMETS should be developed and mandated to ensure technical interoperability can be achieved. Interoperability is a core requirement for the roll-out of smart meters. The effective operation of a competitive retail market for electricity and gas is dependent on customers being easily able to switch energy supplier. Because energy suppliers are responsible for the installation of meters, there needs to be standardisation in the equipment they install so that meters installed by one energy supplier can be operated by another energy supplier.

During the development and notification of SMETS 1 it was acknowledged that additional requirements would need to be added to SMETS to achieve full interoperability of equipment; in particular relating to the communications standards to be used in smart metering equipment. The additional requirements and some associated amendments are included in the second version of the SMETS (SMETS 2), which is the subject of this notification.

Current and developing European standards, including as part of the M/441 and M/490 processes, have been reflected in the Great Britain specifications where possible.

10. Reference Documents - Basic Texts

References of the Basic Texts: Explanatory document to support the notification of the draft Smart Metering Equipment Technical Specifications Version 2 (SMETS 2) to the European Commission

11. Invocation of the Emergency Procedure

No

12. Grounds for the Emergency

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13. Confidentiality

No

14. Fiscal measures

No

15. Impact assessment

Yes

16. TBT and SPS aspects

TBT aspect

No - The draft has no significant impact on international trade

SPS aspect

No - The draft is not a sanitary or phytosanitary measure

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