

Smart-metering Hvad ligger der i kortene af krav fra EU?

René Nielsen
Dansk Standard

Hvad siger Kommissionen ?

- Er Smart meters er en brik i puslespillet?
- Hvilke dokumenter og politik referer dette til?
- Har Kommissionen er holdning?
- Hvem gør hvad?
- Hvilket kontor er koordinerende:

Directorate-General for Energy and Transport
Unit C.2 - Electricity and Gas

- www.energy.eu
- http://ec.europa.eu/energy/index_en.htm
- http://ec.europa.eu/energy/gas_electricity/index_en.htm

Politikker og dokumenter

- Ny kommissær: Günther Oettinger
European Commissioner for Energy

EU's klima- og energipolitik har følgende ambitiøse målsætninger for 2020:

- mindske udledningen af drivhusgasser med mindst 20 % i forhold til 1990-niveauet (30 %, hvis andre industrilande forpligter sig tilsvarende)
- øge andelen af energi fra vedvarende energikilder (vind, sol, biomasse osv.) til 20 % af den samlede energiproduktion (i dag udgør vedvarende energi ± 8,5 %)
- mindske energiforbruget med 20 % i forhold til de forventede niveauer for 2020 ved at forbedre energieffektiviteten.

Politikker og dokumenter

- Pakken af gennemførelsesforanstaltninger med henblik på opfyldelsen af EU's målsætninger om klimaændringer og vedvarende energi frem til 2020, SEK(2008) 85

Third Energy Package legislation:

- Directive 2009/72/EC of the European Parliament and of the Council of 13 July 2009 concerning common rules for the internal market in electricity and repealing Directive 2003/54/EC
- Directive 2009/73/EC of the European Parliament and of the Council of 13 July 2009 concerning common rules for the internal market in natural gas and repealing Directive 2003/55/EC

Politikker og dokumenter

- **Mandat 441:**
Standardization mandate in the field of measuring instruments for the development of an open architecture for utility meters involving communication protocols enabling interoperability
- **Task Force Smart Grids – vision and work programme:**
The Third Energy Package provides the appropriate collaborative environment for the implementation of Smart Grids across Europe.

Standardiseringsmandat 441

- A European standard comprising a software and hardware open architecture for utility meters that supports secure bidirectional communication upstream and downstream through standardized interfaces and data exchange formats and allows advanced information and management and control systems for consumers and service suppliers. The architecture must be scalable to support from the simplest to the most complex applications. Furthermore, the architecture must consider current relevant communication media and be adaptable for future communication media. The communication standard of the open architecture must allow the secure interfacing for data exchanges with the protected metrological block.

Standardiseringsmandat 441

- European standards containing harmonized solutions for additional functionalities within an interoperable framework using where needed the above-mentioned open architecture for communication protocols. These solutions must be standardized to achieve full interoperability. Solutions meant to be installed in living quarters should be silent, non-intrusive and safe.

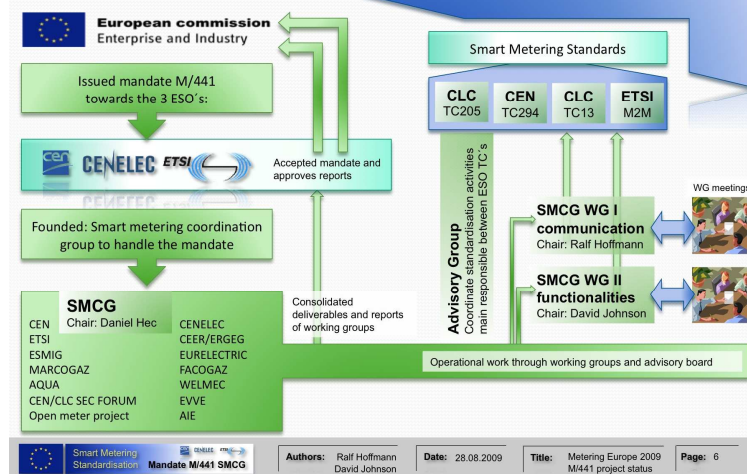
Standardiseringsmandat 441

- The standards to be developed must be performance-based and permit innovation in the protocols that enable remote reading of utility meter and advanced information and management services for consumers and suppliers. In particular, the standards shall permit fully integrated instruments, modular and multi-part solutions. Standards developed under this mandate and M/374 (measuring instruments) should not conflict with each other and other standards and any overlaps should be indicated.
- International, European and national standards that have already been developed or are under development should be taken into account.

Standardiseringsmandat 441 Hvad sker der nu?

- CEN, CENELEC and ETSI Smart Meters Co-ordination Group (SM-CG)
- Final Report 2009-12-10
- Dansk Standard S-463: Forum for intelligente energimålere - smart meters
- Rekommandationer for det fremtidige arbejde i den endelige rapport giver 2 nye arbejdsgrupper
- Ønskes der indflydelse og viden om dette?
- Henryk Stawicki - 3996 6223 - hen@ds.dk
- www.ds.dk/da-DK/ydelser/Standardisering/S-udvalg/S-463/Sider/default.aspx

Mandate M/441 organisation and responsibilities



Task Force Smart Grids

- CENELEC's centralsekretariat deltager og rapporterer til CENELEC's tekniske bestyrelse, BT
- The ultimate goal of this Work Programme is to identify and produce a set of regulatory recommendations to ensure EU-wide consistent and fast implementation of Smart Grids, while achieving the expected Smart Grids' services and benefits for the network users.

Task Force Smart Grids

The Work Programme should further elaborate the following tasks dealing with consumers:

- What does active participation mean for consumers?
- How is electricity data different from other data?
- How to best protect consumer data.
- How to best inform consumers of the benefits of Smart Meters and Smart Grids.
- What mechanisms are available for the protection of vulnerable consumers?

Smart Grids i IEC

Standardization Management Board: Strategic Group 3: Smart Grid

- Rapport på 150 sider til sidste møde i SMB med flg:
- IEC Smart Grid Framework: A One Stop Shop Now
- Increase usability of existing standards
- New standards to close the gaps
- Improve the IEC Organization for Smart Grid

Smart Grids i IEC

- Issues inhibiting the development of optimal IEC standards for Smart Grid
- Closing an organizational gap to develop “connecting the consumer”
- Standards (consumer applications, Smart Home and Buildings, PHEV)
- Establish a new TC or SC on “connecting the consumer applications”
- Conformity assessment add a Smart Grid certification process
- www.iec.ch/zone/smartgrid



Smart Grids i Dansk Standard

Dansk Standard opretter:

Forum for Smart Grid

- Smart Grid Forum tjener som fagligt netværk for virksomheder, institutioner og enkeltpersoner til udveksling af viden og information om el-nettet infrastruktur med udgangspunkt i standardisering og politisk fokus
- Kontakt Ragnar Schultz – rs@ds.dk – 3996 6297 for yderligere oplysninger



Tak for opmærksomheden
Spørgsmål?