

E-Control Ordinance Determining the Requirements for Smart Meters 2011

Pursuant to section 83 para. 2 *Elektrizitätswirtschafts- und -organisationsgesetz* (Electricity Act) 2010, *BGBI.* (Federal Law Gazette [FLG]) I no 110/2010, the following Ordinance is issued:

Regulatory Matter

Section 1. This Ordinance determines the requirements that smart meters pursuant to section 7 para. 1 item 31 *Elektrizitätswirtschafts- und -organisationsgesetz* (Electricity Act) 2010 shall meet and that shall be taken into account in the allowed cost for calculating the charges established pursuant to section 59 Electricity Act 2010.

Scope of Application

Section 2. The requirements pursuant to section 3 concern meters pursuant to section 83 para. 1 *Elektrizitätswirtschafts- und -organisationsgesetz* (Electricity Act) 2010 with which consumers whose consumption is not metered by a load profile meter shall be furnished.

Requirements for Smart Meters

Section 3. Smart meters pursuant to section 7 para. 1 item 31 *Elektrizitätswirtschafts- und -organisationsgesetz* (Electricity Act) 2010 shall meet the following minimum functional requirements:

1. They shall feature two-way communication.
2. They shall allow for metering and saving meter readings, mean loads or consumption data at an interval of 15 minutes. In this context, metering shall refer to the off-take and input of active energy or active power. Furthermore, the devices shall allow for saving the timestamp relating to the meter reading, mean load or consumption information recorded, and the corresponding date. The smart meters shall also offer the possibility to save daily consumption data.
3. They shall offer the possibility to store, in the device itself, all the data referred to in item 2 for a maximum period of the last 60 calendar days. Furthermore, the meters shall ensure that in the event of a drop in voltage levels all data are preserved as long as required for their complete reconstruction.
4. They shall offer the possibility to send all data recorded until midnight of each calendar day pursuant to item 2 to the system operator via a communications interface once daily by no later than 12:00 hrs of the following calendar day.
5. They shall offer the possibility to establish two-way communication with at least four external quantity metering devices via a communications interface and to ensure data transmission for these external meters. Where the quantity meters that communicate via this interface are battery-operated, communication shall be ensured in a manner so as to maximise the battery life of such external quantity meters, to the extent possible. If such interface is used jointly with other sectors, access to and the specifications of such interface shall be harmonised with all entitled parties from the time of installation and shall be provided to the entitled parties at their request in a non-discriminatory manner.
6. They shall be able to communicate with external devices available in the customer facility via a communications interface and to provide one-way transfer of at least the data recorded pursuant to item 2. Where needed, access to and the specifications of such interface shall be provided to the entitled parties at their request in a non-discriminatory manner from the time of installation of the smart meter. Such interface shall be configured for one-way data and information transfer. Any use of such interface exceeding the use specified above to control the meter shall not be provided for.
7. The smart meters and their communication, including with external devices pursuant to items 5 and 6, shall be secured and encrypted according to the recognised state of the art to prevent access by non-entitled parties. Communication, including with external devices pursuant to items 5 and 6, shall be authenticated and encrypted with an individual customer-related key according to the state of the art.

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8. They shall provide the possibility to remotely disable the connection of the customer facility or to remotely support the customer in enabling and authenticating reconnection, as well as to restrict the maximum load.
9. They shall be equipped with an internal clock and a calendar function. In addition, the smart meters shall enable remote synchronisation of the internal clock and the calendar function.
10. They shall support status and/or error logs, and access logs. In addition, the meters shall be equipped with a manipulation detection function.
11. The possibility of remote software updates shall be provided for in compliance with the statutory calibration regulations.
12. They shall comply with the provisions of metrology and calibration law and data protection law as well as the recognised state of the art.

Entry Into Force

Section 4. This Ordinance shall come into force on 1 November 2011.

Boltz Graf

Vienna, 25 October 2011