

Energy Efficiency Directive

Customer Empowerment?



Dominika Moczko LL.M.
AGFW, Law + Europe Department
d.moczko@agfw.de
Phone No. 0049 / 69 6304 218

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- » Energy Efficiency Directive 2018/2002 amends the EED 2012/27/EU in force
- » Implementation period: 25th June 2020 / 25th October 2020
- » Sets a 2030 target of 32,5 %
 - » primary energy consumption
 - » EED 2012: 20 %
- » National annual savings of 0,8 %
 - » final energy consumption
 - » EED 2012: 1,5 % of annual energy sales to final customers
- » Energy efficiency obligation schemes and alternative measures
- » Savings achieved in the energy transformation, distribution and transmission sectors, including efficient DHC, may be considered



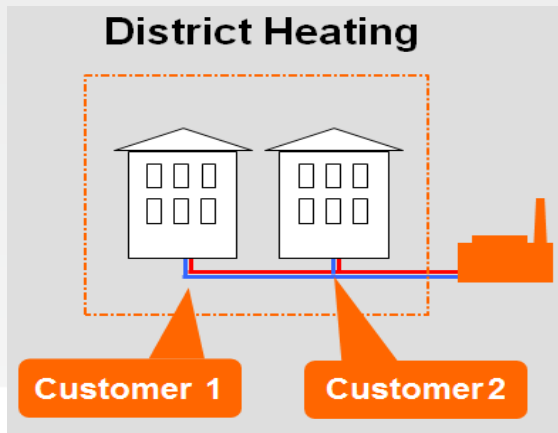
Customer Empowerment?

- » Art. 9a – 11a EED
 - » Heat metering
 - » Billing
 - » Information



final customers

final user



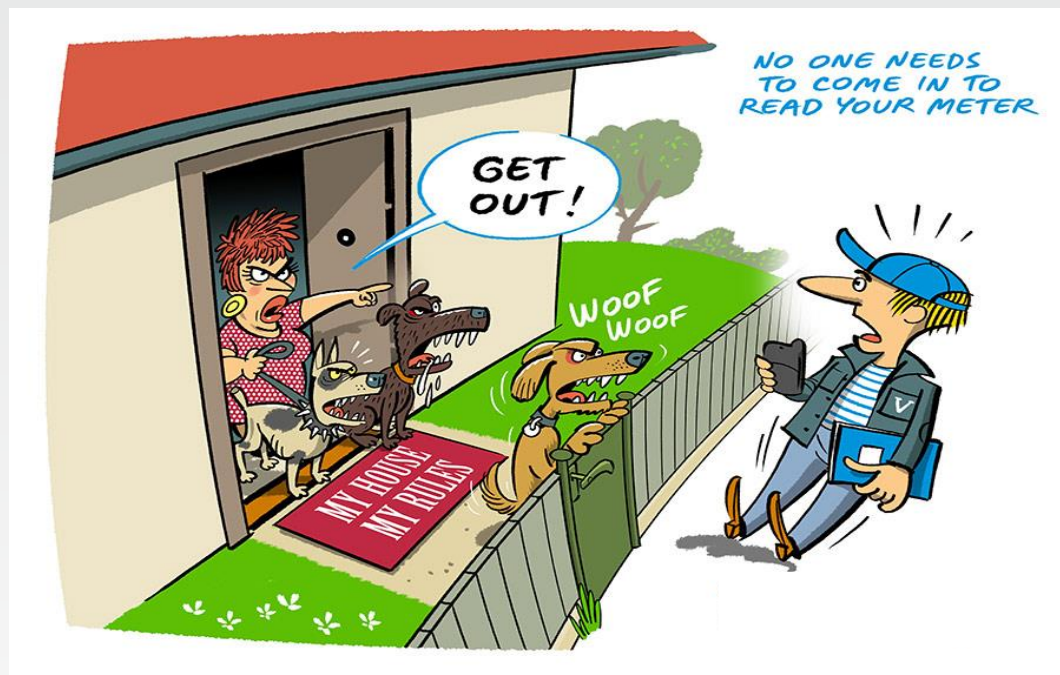
- » Art. 9a and 9b EED

- » **Building-related metering**
 - » final customers
 - » a meter shall be installed at the heat exchanger or point of delivery

- » **Sub-metering**
 - » for each building unit
 - » individual meters
 - » technical feasibility or cost-efficiency in terms of being proportionate in relation to the potential energy savings
 - » individual heat cost allocators (HCA)
 - » alternative cost-efficient methods of heat consumption measurement

- » In new multi-apartment buildings: individual meters for domestic hot water

» Art. 9c EED



Source: <https://www.iot-water.cz/en/>

- » Art. 10a EED
- » Where metering devices are installed, billing and consumption information is reliable, accurate and based on actual consumption or HCA readings for all final users
- » Transparent and publicly available national rules on the allocation of the consumption cost
- » Minimum frequency (final user):
 - » at least once per year
 - » where remotely readable devices have been installed:
 - » from 25 October 2020, billing **or** consumption information provided twice a year
 - » upon request or where final customers have opted to receive electronic billing, at least quarterly
 - » from 1 January 2022 at least monthly
 - » Heating/cooling may be exempted outside the heating/cooling seasons

» Annex VIIa EED



Implementation in Germany

- » **Building-related metering:** § 18 Ordinance on General Conditions for the Supply of Heat (AVBFernwärmeV)
 - » Measurement by heat meters (+)
 - » Not specified where the meters are installed, usually house substation
 - » Exceptions provided (-)

- » **Sub-metering:** § 5 Ordinance on Heat Cost Allocation (HeizkostenV)
 - » Measurement by individual meters or HCA (+)

- » **Drinking water:** § 5 Ordinance on Heat Cost Allocation
 - » Hot water meters or other suitable equipment

- » **National rules on the heat costs allocation:** Ordinance on Heat Cost Allocation (HeizkostenV) (+)

- » **Remotely readable devices** (-)

- » **Frequency of billing:**
 - » § 24 Ordinance on General Conditions for the Supply of Heat, at least once per year (+)
 - » Ordinance on Heat Cost Allocation (+)
 - » Remotely readable devices (-)

- » **Information:** several questions

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