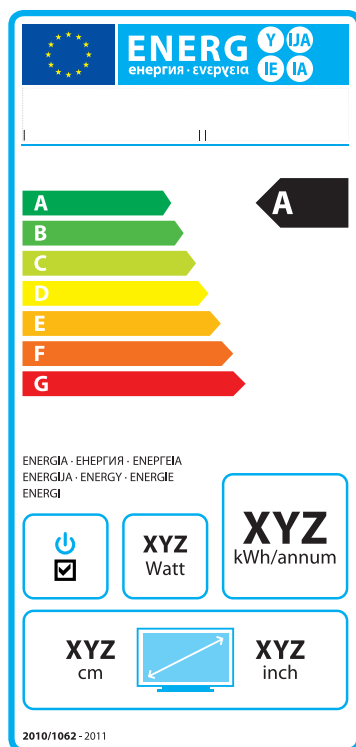


## Energy efficiency measurements for EU Energy label approvals

Energy is a both precious and limited commodity. Using it efficiently not only saves money, but also helps protecting the climate.

VDE is expert in supporting and monitoring energy efficiency technologies, on standardization of product and testing requirements, competent testing and evaluation of electro technical products, as well as special assessment services as part of environmental and energy audits.



**The EC Energy Label:  
an important criterion  
for the buyer.**

VDE Institute has state-of-the-art testing equipment especially for EU Energy label examinations and – thanks to its high competency – has been a valued service provider and partner in this field for many years now.

Aiming at reducing the energy consumption of electrical household appliances and thereby contributing to climate protection, the European Union has established specific guidelines for electrical household appliances. Adherence to these guidelines is mandatory for manufacturers, consumer information is legally regulated in the form of an energy label. The energy label shows important data such as average values for power and water consumption of washing machines, or the energy consumption for TV sets in the stand-by mode. Additionally, the energy label comprises essential usability information, e.g. volume, capacity and washing or tumbling effects for the various product categories. Testing is based on the relevant EC directives and European standards. The directive 2010/30/EC for the regulation of energy consumption labeling has become effective in 2010, replacing the prior 92/75/EC directive. The key change



pertains to the extension of the energy efficiency classes. While the classification so far ranged from A to G, there are now classes A+ to A+++ for enhanced energy efficiency, depending on the product group. Classes E to G will be abolished; energy efficiency classes thus reflect the technological progress. Moreover, exact design specifications for the energy label have been added. VDE Institute offers a summary of the most important requirements on its online platform: [www.vde.com/eu-energylabel](http://www.vde.com/eu-energylabel).

VDE Institute performs tests for energy labeling of washing machines, tumble dryers, dishwashers, refrigerators and freezers, lamps and TV sets as well as energy consumption measurements for ovens. VDE Institute uses fully automated testing systems and an advanced water purification system. The methodology to obtain measurement data being highly specific, VDE Institute applies very high standards as to testing equipment, supporting tools and staff qualification.

**If you have any questions concerning this topic, please contact:**

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