

Ecodesign for Televisions

8th Ecodesign Implementing Measure published in OJ the 23rd of July 2009

On 22 July 2009, the European Commission adopted the ecodesign regulation 642/2009 on televisions. The regulation sets requirements on on-mode, standby and off mode power consumptions of televisions, which should result in electricity saving of 20% by 2020, compared to the situation without taking any measures.

The regulation will enter into force the 12th of August 2009.



Scope of Products

Television sets and television monitors.

Specific Requirements and Timescales

Maximum on-mode power consumption requirements

- **From 20 August 2010**, new televisions shall meet the following requirements:

	Full HD resolution	All other resolutions
Television sets	20 W + A x 1.12 x 4.3224 W/dm ²	20 W + A x 4.3224 W/dm ²
Television monitors	15 W + A x 1.12 x 4.3224 W/dm ²	15 W + A x 4.3224 W/dm ²

- **From 1 April 2012**, new televisions shall meet the following requirements:

	All resolutions
Television sets	16 W + A x 3.4579 W/dm ²
Television monitors	12 W + A x 3.4579 W/dm ²

A: visible screen area in dm²

Standby/off mode requirements

- **From 7 January 2010**, new televisions shall meet the following requirements:

Power consumption in off-mode ⁽¹⁾	Power consumption in stand-by modes	
	Reactivation function or mere indication	Information or status display or Reactivation function and display
1.00 W	1.00 W	2.00 W
Availability of off-mode and/or standby-mode ⁽¹⁾		

⁽¹⁾ Television sets with separate units	Power consumption in off-mode	Availability of off-mode and/or standby-mode
Display	1.00 W	Applicable individually
Tuner/receiver (in separate unit)	+ 1.00 W	Applicable individually
Function for data storage and/or display (in separate unit)	+ 1.00 W	Applicable individually

- **From 20 August 2011**, new televisions shall meet the following requirements:

Power consumption in off-mode ⁽¹⁾	Power consumption in stand-by modes	
	Reactivation function or mere indication	Information or status display or Reactivation function and display
0.30 W*	0.5 W	1.00 W
Availability of off-mode and/or standby-mode ⁽¹⁾		
Automatic power-down function		

*exemption are made in some particular cases



C O D D E

⁽¹⁾ Television sets with separate units	Power consumption in off-mode	Availability of off-mode and/or standby-mode
Display	0.30 W	Applicable individually
Tuner/receiver (in separate unit)	+ 0.30 W	Applicable individually
Function for data storage and/or display (in separate unit)	+ 0.30 W	Applicable individually

“Home-Mode” requirements

From August 2010 new televisions, which are delivered with a forced menu shall provide a “home-mode” in the forced menu, which shall be the default choice on initial activation of the television. If the user selects a mode other than “home-mode” on initial activation of the television, a second selection process shall be prompted to confirm the choice.

Pick luminance ratio requirements

From August 2010

- Televisions without forced menu: peak luminance of the on-mode condition of the television as delivered ≤ 65% of the peak luminance of the brightest on-mode condition provided by the television.
- Televisions with forced menu: peak luminance of the home-mode condition ≤ 65% of the peak luminance of the brightest on-mode condition provided by the television.

Information to be provided

For more information see

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:191:0042:0052:EN:PDF>

Opportunity for Environmental Impact Improvement

It is estimated that annual energy consumption related to televisions amounts to **60 TWh**, corresponding to **24 Mt of CO₂** emissions. In the absence of specific measure this consumption is predicted to increase to **132 TWh in 2020**. This regulation will lead to annual use-phase electricity consumption savings (EU-27) of about **28 TWh** by 2020.

The savings are comparable to Bulgaria yearly electricity consumption, and correspond to approximately **11 Mt of avoided CO₂** emissions per year.

What Now?

Bureau Veritas CODDE, has been a key partner in the development of many of the Preparatory Studies, including the Television study. Our Bureau Veritas Environmental Impact experts worldwide can work with you to carry out the conformity Assessment according to internal design control system:

- Result of relevant environmental assessments (Life Cycle Assessment): Footprint using our EIME software
- Results of measurements: Energy Consumption Test

We can also advise on how to develop your process to comply with the EuP Directive and the many benefits of environmental impact assessment and improvement.

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