

Energy Efficiency Standards and Labelling for televisions in South Africa

The Department of Mineral Resources and Energy (DMRE) has mandated the South African National Energy Development Institute (SANEDI) to implement the national Energy Efficiency Appliance Standards and Labelling (S&L) Programme. The Programme has been in place for large residential appliances since 2015, its success has resulted in an expansion of products with the support of CLASP, which includes the developing of Minimum Energy Performance Standards (MEPS) and an energy efficiency label for televisions in South Africa. Learn more at www.savingenergy.org.za

The development of these standards to improve the energy performance of the televisions manufactured and imported into South Africa and an energy efficiency label to guide consumer buying choices is to lessen the burden of electronic goods on the grid considering the ongoing electricity crisis. Reducing energy consumption translates to reduced electricity costs and a reduction in Green House Gas emissions in line with the country's Nationally Determined Contributions (NDC). This project is crucial to improving the sustainability of the industry.



Areas of opportunity for increased efficiencies in the market

Research on residential electricity consumption in South Africa, conducted in 2021, shows that 92% of households have one television while 36% have two or more. 60% of households have their TVs on for more than 4 hours a day.

The number of televisions owned is projected to grow to approximately 28.4 million units by 2032, directly increasing the energy use from televisions. Further, size of television screens has been increasing, which is directly increasing the power used from the televisions. In addition, there has been an evolution of televisions in the industry with other technology change that has recently taken place in many parts of the world including South Africa for example analogue broadcasts to digital. This has allowed the introduction of high-definition broadcasts and screens. In general terms, for a same screen technology, a high-definition tuner and screen will require more power than a standard definition screen and tuner of the same size, irrespective of

the definition of the signal being processed.

MEPS and labelling are an essential policy instrument

MEPS and energy labelling are one of the most effective policy tools in promoting energy efficiency in electricity-powered appliances. A recent study on the subject estimated that about 1.23TWh more will be used by the year 2021 compared to the energy used by the stock of televisions in 2017.

It is estimated that if MEPS are adopted, the cumulative energy savings to be realized by 2030 will be approximately 2.6TWh.

The report referenced further estimates that about 1.97 Mt CO2 emissions can be reduced by 2030 in South Africa following the adoption of MEPS for televisions.

A Call for Industry participation

In line with government processes, stakeholder consultation is a requirement in the development of any proposed legislation.

SANEDI invites industry stakeholders including TV manufacturers, assemblers, and distributors to participate in upcoming engagements which will include a project briefing session, interviews and data collection surveys, consultation workshops and reviews of the study before finalization to inform the

development of proposed performance standards and an energy label for televisions.

To be added to the outreach database or to clarify any information shared in this release please contact SANEDI's Programme Manager for Energy Efficiency Appliance Standards and Labelling- Ms. Ashanti Mbanga via AshantiM@sanedi.org.za.

About SANEDI

SANEDI's focus is mainly developing innovative, integrated clean energy and resource efficient solutions that aim to catalyse growth and prosperity. For more information visit <https://www.sanedi.org.za/>

About CLASP

CLASP is a non-governmental organisation (NGO) which seeks to improve the energy and environmental performance of the appliances and equipment we use every day.

For more information, visit <https://www.clasp.ngo/>