

CEN

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WORKSHOP

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AGREEMENT

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English version

Saving lifetimes of Energy Efficiency Improvement Measures in bottom-up calculations

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Foreword

The production of this CWA (CEN Workshop Agreement) specifying values of average saving lifetimes for different energy efficiency improvement (EEI) measures, and/or an agreed methodology to establish these average saving lifetimes, in bottom-up calculations of energy savings, was formally accepted at the authentication CEN Workshop's kick-off meeting on 2006-08-30.

As the energy saving effect of some EEI measures last for decades, while other measures last for a much shorter period of time, saving lifetimes per EEI measure type are a must when calculating total energy savings (to be) realized at any point in time.

In this edition of the CWA 15693 the values of average saving lifetimes, and/or an agreed methodology to establish these average saving lifetimes, are specified for different EEI measure types for bottom-up calculations.

This CEN Workshop Agreement has been prepared by a Workshop, the Secretariat of which is held by the Netherlands Standardization Institute (NEN). The document has been developed through the collaboration of a number of contributing partners, representing a wide mix of interests.

The consensus on this CEN Workshop Agreement was reached in principle during the final meeting or the CEN Workshop on 2007-01-29. The final text of this CWA was submitted to CEN for publication on (2007-03-29).

The list of registered members supporting this CEN Workshop Agreement is:

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This Workshop Agreement has been prepared in close cooperation with the European Commission (DG TREN and DG JRC), and is intended to support the bottom-up calculations of (to be) realized energy savings in relation to the Directive on energy end-use efficiency and energy services of the EU [1], further referred to as Energy Service Directive (ESD).

This CWA 15693 results in a list of saving lifetimes of EEI-measures that covers most of the ESD Annex III exemplary measures, and is the proposal for the Commission to replace the example list of lifetimes in ESD Annex IV item 4 (Harmonised lifetimes of energy improvement measures in bottom-up calculations). One has to keep in mind that this is a preliminary list, based on current knowledge at the time of publishing. A more comprehensive list of EEI measures and harmonised saving lifetimes is needed by Member States for the EEAP's reporting 2011.

The lifetimes resulting from this CWA 15693 constitute an input to the calculation of bottom-up energy savings. An overall calculation method will be developed, e.g. by the CEN/BT TF 190 and in the IEE project "Evaluation and Monitoring of the EU Directive on Energy End-use Efficiency and Energy Services (EMEEES)".

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Comments or suggestions from the users of the CEN Workshop Agreement are welcome and should be addressed to the CEN Management Centre.

1 Scope

This CEN Workshop Agreement specifies a list of values of average saving lifetimes, and/or an agreed methodology to establish these saving lifetimes, for commonly implemented types of energy efficiency improvement (EEI) measures in end-use. These saving lifetimes can be used in bottom-up calculations of energy savings, (to be) realized as result of policies and actions, as part of Directive 2006/32/EC on energy end-use efficiency and energy services (Energy Service Directive, ESD).

This Workshop Agreement provides saving lifetimes in relation to the ESD, and does not supersede saving lifetimes used in Member States for other purposes. The CEN Workshop Agreement recognizes that there is variation in the saving lifetimes of EEI measures across Member States.

NOTE The term 'saving lifetime' is used in this CWA, as to avoid confusion with the lifetime of products, used by manufacturers in e.g. a guaranty on duration of the product.

2 Normative references

There are no normative references.

3 Terms and Definitions

For the purposes of this CEN Workshop Agreement the following terms and definitions shall apply (for end-use that is subject to the Energy Service Directive).

3.1 Energy efficiency (improvement)

energy efficiency is the ratio between an output of performance, service, goods or energy, and an input of energy. An improvement in energy efficiency means an increase in energy efficiency as a result of technological, behavioural and/or economic changes

NOTE It regards both reductions in energy demand (e.g. insulation) as well as higher conversion efficiencies in end-use (e.g. boiler).

3.2 Energy efficiency improvement (EEI) measures

all actions in end-use of energy that normally lead to verifiable and measurable or estimable energy efficiency improvement

NOTE This regards technical measures, organisational measures and behavioural measures in specific parts of end-use.

3.3 EEI measure type

a category of EEI measures with similar characteristics as to energy efficiency

3.4 Energy savings

the amount of saved energy determined by measuring and/or estimating energy consumption before and after implementation of one or more EEI measures, whilst ensuring normalisation for external conditions that affect energy consumption

NOTE For technical systems it regards the difference in energy use between the new energy efficient system and the old replaced system.

3.5 Saving period

number of years after implementation of the measure, for which the measure is performing and there is a verifiable effect on energy consumption