



UL 2860

Environmental Claim Validation Procedure (ECVP) for Calculation of Recycling and Recovery Rate

Environmental Claim Validation Procedure (ECVP) for Calculation of Recycling and Recovery Rate, UL 2860

First Edition, Dated May 1, 2018

Summary of Topics

The first edition of the Environmental Claim Validation Procedure (ECVP) for Calculation of Recycling and Recovery Rate, UL ECVP 2860 has been issued.

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INTRODUCTION

1 General

1.1 This procedure outlines the process for validating individual recycling facility's reported recycling and recovery rates associated with end-of-life (EOL) treatment processes for waste electrical and electronic equipment (WEEE). These recycling facilities recover materials from WEEE, averting landfill waste and/or incineration without energy recovery, thus providing substantial environmental benefit.

1.2 All claims shall be accompanied by the exact percentage of total WEEE that is being recycled for beneficial reuse, and/or the exact percentage of total WEEE that is being recovered through waste-to-energy.

1.3 EOL treatment information validated by this procedure can be used to calculate the recyclability and recoverability rates of electrical and electronic equipment as defined in Guidelines for End-of-Life Information Provided by Manufacturers and Recyclers and for Recyclability Rate Calculation of Electrical and Electronic Equipment, IEC/TR 62635.

2 Scope

2.1 This procedure covers the calculation of recycling rates and recovery rates reported by individual recycling facilities from EOL treatment processes for WEEE (outlined in Appendix A). This procedure addresses the impact of all WEEE entering the facility and all recovered materials leaving the facility under review.

3 Units of Measurement

3.1 For the purposes of this procedure, values shall be reported in accordance with the requirements of the individual criterion. If the recycler's choice of units deviates, that change shall be documented and justified as to the reason and relevance for that change.

4 Undated References

4.1 Any undated reference to a code or standard appearing in the requirements of this procedure shall be interpreted as referring to the latest edition of that code or standard.

5 Glossary

5.1 For the purpose of this procedure, the following definitions apply.

5.2 **BATCH** – A quantity of WEEE or fractions to determine the yields and compositions of the resulting output materials and treatment performance in material recovery and removal of hazardous waste.

5.3 **DISPOSAL** – Any operation which is not recovery even where this operation has a reclamation of substances or energy secondary consequences.

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5.4 **DOWNSTREAM PROCESSOR** – A company that receives materials, by-products, or waste from the first operator or other downstream processor for the purposes of additional processing and refining for maximum resource recovery.

5.5 **ELECTRICAL AND ELECTRONIC EQUIPMENT (EEE)** – Equipment which is dependent on electric current or electromagnetic fields in order to work properly and equipment for the generation, transfer and measurement of such currents and fields and designed for use with a voltage rating not exceeding 1,000 volts for alternating current and 1,500 volts for direct current (Directive of the European Parliament and of the Council of on Waste Electrical and Electronic Equipment (WEEE), 2012/19/EU).

5.6 **END-OF- LIFE (EOL)** – Life cycle stage of a product starting when removed from its intended use stage.

5.7 **ENERGY RECOVERY** – Production of useful energy through direct and controlled combustion or other processing of waste.

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5.8 **FRACTIONS** – Components which have been dismantled or treated mechanically, or materials which have been recovered for beneficial reuse.

5.9 **MATERIAL RECOVERY** – Material-processing operations including mechanical recycling, feedstock (chemical) recycling and organic recycling, but excluding energy recovery.

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5.10 **MATERIAL SEPARATION** – Operation to separate materials, including mechanical, chemical or thermal processing (e.g. shredding, smelting, sorting, etc.) other than dismantling.

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