

Oregon E-Cycles Program: Calculation of Return Share and Return Share by Weight

Background

Each year DEQ determines the total weight of covered electronic devices to be collected by all participating manufacturers in Oregon E-Cycles during the following calendar year. DEQ assigns a minimum recycling obligation (return share by weight) based on each manufacturer's return share (percent). Manufacturers participate in an approved recycling program, and those recycling programs must collect the total return share weight of their participating manufacturers to avoid penalties.

This document describes how DEQ calculates return shares and return shares by weight according to Oregon Revised Statute (ORS) 459A.340(3)(a)-(c). DEQ determines return shares and return shares by weight for all manufacturers using sampling data for devices returned for recycling through Oregon E-Cycles in the previous year, and then adjusts the return share and return share by weight for TV manufacturers based on their TV sales.

Definitions

Covered electronic device: computers, monitors, printers, TVs, and computer peripherals (keyboards and mice). Manufacturers of computer peripherals are not required to register.

IT manufacturer: a manufacturer that produces fewer televisions than other CEDs. Note that some "IT manufacturers" also produce TVs.

Orphan device: a CED for which no manufacturer can be identified.

Return share: minimum percent of CEDs assigned to a manufacturer for collecting, transporting and recycling.

Return share by weight: minimum weight of CEDs assigned to a manufacturer.

TV manufacturer: a manufacturer that produces more televisions than other CEDs. Note that some "TV manufacturers" also produce other CEDs.

How are return share and return share by weight calculated?

An individual manufacturer's return share (percent) is determined by dividing the total weight of that manufacturer's brands of CEDs returned for recycling in the previous calendar year by the total weight of all manufacturers' brands of CEDs returned for recycling (excludes orphan devices and computer peripherals). For these calculations, DEQ uses sampling to determine the brand and weight of CEDs returned for recycling through Oregon E-Cycles.

A manufacturer's return share by weight (pounds) is calculated by multiplying a manufacturer's return share (percentage) by the total weight (pounds) of CEDs, including orphan devices, to be collected for recycling the following year. The total weight to be collected for each year is described elsewhere [online](#) in the annual collection determination document.

For TV manufacturers only, the total return share by weight for all TV manufacturers is reallocated among individual TV manufacturers based on their respective market share of TVs sold in or into Oregon in the previous calendar year. The reallocation based on market share provides the TV manufacturer's final return share and return share by weight. TV manufacturers are those manufacturing more TVs than computers or monitors in any given year.



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Return share and return share by weight calculations

Step 1.

Determine the total pounds of all CEDs to be collected through Oregon E-Cycles

The total weight can be found annually in the Oregon E-Cycles collections determination document [online](#).

Step 2.

Determine return share and return share by weight for each manufacturer for all CEDs except computer peripherals (keyboards and mice).

Return share calculation (percent)
Total weight of a manufacturer's CEDs returned in the previous calendar year (i.e., pounds sampled)
divided by
Total weight of all manufacturers' CEDs returned (excludes orphan devices) in the previous calendar year (i.e., pounds sampled)

Return share by weight calculation (pounds)
A manufacturer's return share (percent)
multiplied by
Total weight of CEDs (including orphan devices) to be collected the following year (pounds)

Step 3.

Reallocate the total return share by weight for all TV manufacturers calculated in Step 2 based on their market share to determine the final return share by weight for each TV manufacturer.

TV manufacturer's TV market share calculation (percent)
The total units of TVs sold in or into Oregon the previous calendar year for a TV manufacturer (units)
divided by
The total units of ALL TVs sold in or into Oregon in the previous calendar year for all TV manufacturers (units)

TV manufacturer's return share by weight calculation (pounds)
TV manufacturer's TV market share (percent)
multiplied by
Total return share by weight of all TV manufacturers from Step 2

Alternative formats

Documents can be provided upon request in an alternate format for individuals with disabilities or in a language other than English for people with limited English skills. To request a document in another format or language, call DEQ in Portland at 503-229-5696, or toll-free in Oregon at 1-800-452-4011, ext. 5696; or email deqinfo@deq.state.or.us.