

Calculating Return Shares and Return Shares by Weight

Background

Each spring DEQ determines the total weight of covered electronic devices to be collected by all Oregon E-Cycles recycling programs during the upcoming calendar year. DEQ then assigns each manufacturer participating in an Oregon E-Cycles recycling program a portion of that total weight – a return share (percentage) and return share by weight. Recycling programs are then responsible for recycling each calendar year, at a minimum, the total weight of all their participating manufacturers' return shares by weight.

In 2019, Oregon's legislature (HB 3114), changed the way DEQ must allocate the total weight to be collected each year among manufacturers. Beginning in 2020, DEQ must use manufacturers' respective market shares, by weight, of covered electronic devices sold in or into Oregon during the previous calendar year to assign manufacturer return shares and return shares by weight. How DEQ does that is explained below.

Definitions

Covered electronic device: computers, monitors, printers, TVs, and computer peripherals (keyboards and mice). Manufacturers do not register computer peripherals; they are treated as orphan devices.

IT market share (nontelevision market share): a manufacturer's percentage by weight of all registered manufacturers' nontelevision devices (computers, monitors, and printers) sold in or into Oregon during the previous calendar year.

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

TV market share: a manufacturer's percentage by weight of all registered manufacturers' televisions sold in or into Oregon during the previous calendar year

How are return share and return share by weight calculated?

Each spring DEQ determines the total weight of all covered electronic devices, including orphan devices, to be collected by all recycling programs in Oregon E-Cycles during the upcoming calendar year, and of that total, the weight of TVs and IT devices. See [Collection Determination](#).

Next, the total weights for TVs and IT devices are each allocated among manufacturers based on their respective TV market shares and IT market shares by weight from the previous calendar year. TV market share is determined by dividing a manufacturer's total weight of all TVs sold in or into Oregon in the previous calendar year by the total weight for all registered manufacturers' TVs sold in or into Oregon during that time. Each manufacturer's IT market share is determined the same as TV market share, except weights of IT devices sold in or into Oregon are used. For each manufacturer that sold both TVs and IT devices, the return share by weights for TVs and IT devices are added together to get their total return share by weight.

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Return share and return share by weight calculations

Step 1.

Determine the total pounds of all covered electronic devices, including orphan devices, to be collected through Oregon E-Cycles during the upcoming calendar year and the respective allocation of the total pounds between TVs and IT devices. See [Collections Determination](#).

Step 2.

Determine TV market share for each registered manufacturer that sold TVs.

TV market share calculation (percent)
Total weight of a manufacturer's TVs sold in or into Oregon during the previous calendar year
divided by
Total weight of all registered manufacturers' TVs sold in or into Oregon during the previous calendar year

Step 3.

Determine IT market share for each registered manufacturer that sold computers, monitors, and printers.

IT market share calculation (percent)
Total weight of a manufacturer's IT devices sold in or into Oregon during the previous calendar year
divided by
Total weight of all registered manufacturers' IT devices sold in or into Oregon during the previous calendar year

Step 4.

Determine each manufacturer's return share by weight for TVs.

TV return share by weight calculation (pounds)
A manufacturer's TV market share (percent) from Step 2
multiplied by
Total weight of TVs, including orphan devices, to be collected in the upcoming year from Step 1

Step 5.

Determine each manufacturer's return share by weight for IT devices.

IT return share by weight calculation (pounds)
A manufacturer's IT market share (percent) from Step 3
multiplied by
Total weight of IT devices, including orphan devices, to be collected in the upcoming year from Step 1

Step 6.

Determine each manufacturer's total return share by weight and return share.

Total return share by weight calculation (pounds)
A manufacturer's TV return share by weight from Step 4
added to
A manufacturer's IT return share by weight from Step 5

Return share calculation (percent)
Total return share by weight for a manufacturer
divided by
The total return share by weight for all registered manufacturers

Alternative formats

DEQ can provide documents in an alternate format or in a language other than English upon request. Call DEQ at 800-452-4011 or email deqinfo@deq.state.or.us.