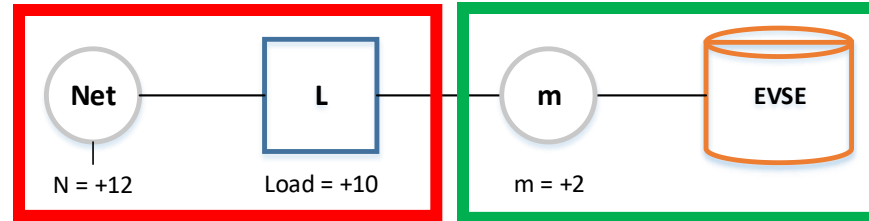


## EVSE Example

### Performance Evaluation Methodology: Facility Load Curtailment + EVSE Curtailment



$$DR_{total}(t) = DR_{Load}(t) + DR_{EVSE}(t)$$

$$DR_{Load}(t) = \max\{[B_L(t) - (N(t) - m(t))], 0\}$$

Table 1: 5 in 10 baseline methodology (Similar day and non-event day)

	5/1	5/2	5/3	5/4	5/5	5/8	5/9	5/10	5/11	5/12	5/15	5/16	5/17	5/18	5/19	5/22	5/23	5/24	5/25	5/26	5/29
Facility load <sup>1</sup>	E	E	11	E	E	E	12	E	13	10	10	E	10	E	E	E	11	10	E	12	11

$$B_L(t) = \frac{13 + 12 + 12 + 11 + 11}{5}$$

$$B_L(t) = 11.8$$

$$DR_{Load}(t) = \max\{[11.8 - (12 - 2)], 0\}$$

$$DR_{Load}(t) = \max\{1.8, 0\}$$

$$DR_{Load}(t) = 1.8 \text{ MW}$$

**Facility provided 1.8 MW of load curtailment**

<sup>1</sup> Facility load is expressed as positive quantity.

## EVSE Example

$$DR_{EVSE}(t) = \max[(B_{EVSE} - m(t)), 0]$$

Table 2: 5 in 10 baseline methodology (Similar day and non-event hour)

	5/1	5/2	5/3	5/4	5/5	5/8	5/9	5/10	5/11	5/12	5/15	5/16	5/17	5/18	5/19	5/22	5/23	5/24	5/25	5/26	5/29
Facility load <sup>2</sup>	E	3	E	E	2	5	1	1	E	2	E	3	E	5	E	E	E	4	5	E	3

$$B_{EVSE}(t) = \frac{5 + 5 + 4 + 3 + 3}{5}$$

$$B_{EVSE}(t) = 4$$

$$DR_{EVSE}(t) = \max\{[4 - 2], 0\}$$

$$DR_{EVSE}(t) = \max\{2, 0\}$$

$$DR_{EVSE}(t) = 2 \text{ MW}$$

**EVSE provided 2 MW of load curtailment**

<sup>2</sup> EVSE load is expressed as positive quantity.

## **EVSE Example**

$$DR_{Total} = DR_{LOAD} + DR_{EVSE}$$

$$DR_{Total} = 1.8 + 2$$

$$DR_{Total} = 3.8 \text{ MW}$$

***Facility and EVSE provided a total of 3.8 MWs of load curtailment***