

# Efficiency Vermont

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## 2018 GROSS-TO-NET FACTORS

APRIL 4, 2018

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## NARRATIVE

Adjustments to all savings were made to account for free riders, spillover, and line losses. This section lists the adjustments that were used for this report.

Adjustments in this report represent free rider and spillover rates used throughout 2018 by agreement between Efficiency Vermont and the Vermont Department of Public Service. Free rider and spillover adjustments are applied based on the specific measure and project track. No adjustments are made for free riders or spillover in the Customer Credit Program.

Adjustments for free riders and spillover are presented as a single combined factor rather than percentage adjustments. That is, “no adjustment” is indicated by a factor of 1. Factors less than 1 represent a net reduction in savings due to free riders. Factors greater than 1 represent a net increase in savings due to spillover. Free rider and spillover adjustments are combined by addition. For example, a free rider adjustment of 0.8 combined with a spillover adjustment of 1.1 results in a total adjustment of 0.9. The adjusted savings would be 90% of gross savings.

Savings adjusted for free riders and spillover are further adjusted to account for line losses, multiplying by 1 plus the appropriate line loss factor. See the Efficiency Vermont Technical Reference Manual for further detail on the application of line loss, free riders, and spillover adjustments. The line loss factors do not vary by measure, but by costing period, and are listed in **Table 1**.

**Table 1. Line Loss Factors**

Energy (MWh)				Peak (kW)	
Winter Peak Period	Winter Off-peak Period	Summer Peak Period	Summer Off-peak Period	Winter Peak	Summer Peak
14.80%	12.30%	15.00%	11.90%	11.30%	11.20%

The column headings in the following table indicate project tracks, project track descriptions and identified base track each project track maps to in the database. In some cases, more than one project track uses the same set of freerider and spillover adjustment factors. The base track shown in the following table identifies the name of the corresponding track for which values are displayed in the freerider/spillover table.

**Table 2. Project Track with Base Track**

Project Track	Project Track Description	Base Track
6012BPUF	Commercial Building Performance Retrofit	6012CNIR
6012CNIR	Commercial & Industrial Retrofit	6012CNIR
6013CUST	Commercial & Industrial Custom Equipment Replacement	6013CUST
6013PRES	Commercial & Industrial Prescriptive Equipment Replacement	6013PRES
6013UPST	Commercial & Industrial Upstream	6013UPST
6014CUST	Commercial & Industrial Custom New Construction	6014CUST
6014PRES	Commercial & Industrial Prescriptive Equipment New Construction	6014PRES
6015CC	Customer Credit	6015CC
6017BPUF	Multifamily Low-income Building Performance Retrofit	6017PRES
6017CUST	Multifamily Low-income Custom Retrofit	6017CUST
6017PRES	Multifamily Low-income Prescriptive Retrofit	6017PRES
6018LINC	Multifamily Low-income New Construction	6018LINC
6019MFNC	Multifamily Market-rate New Construction	6019MFNC
6020BPUF	Multifamily Building Performance Retrofit	6020PRES
6020CUST	Multifamily Market-rate Custom Retrofit	6020CUST
6020PRES	Multifamily Market-rate Prescriptive Equipment Replacement	6020PRES
6032EPEP	Efficient Products	6032EPEP
6032LIEP	Efficient Products, Low-income	6032EPEP
6032UPST	Residential Upstream	6032EPEP
6034LISF	Single Family Low-income Retrofit	6034LISF
6036HPES	Single Family Market-rate Home Performance Retrofit	6036RETR
6036RETR	Single Family Market-rate Retrofit	6036RETR
6038VESH	Single Family Market-rate New Construction	6038VESH
6041LINC	Single Family Low-income New Construction	6038VESH



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