

# Efficiency Vermont

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## 2016 GROSS-TO-NET FACTORS

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## Gross-to-Net Factors

## 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 on the following page represent free rider and spillover rates used throughout 2016 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 and project track descriptions as follows:

<u>Project Track</u>	<u>Project Track Description</u>
6012BPUF	Commercial Building Performance Retrofit
6012CNIR	Commercial & Industrial Retrofit

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



















WATZZZZ	Custom water conservation	0.89	0.89	0.94	0.94	1	1	1	1	1	1	1	1	1	1	0.9	0.9	0.9	1	1	1	1	0.9	0.9	1	1
ZZZBHTIM	Block Heater Timer	0.89	0.89	0.94	0.94	1.05	0.95	1	1	1	1	1	1	1	1	0.9	0.9	0.9	1	1	1	1	0.9	0.9	1	1
ZZZMASTR	Master meter conversion	0.89	0.89	0.99	0.99	1	1	1	1	1	1	1	1	1	1	0.9	0.9	0.9	1	1	1	1	0.9	0.9	1	1
ZZZTEMPX	Temporary measure code, to be reassigned	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZZZTRANS	Transformer, efficient	0.89	0.89	0.98	0.98	0.99	0.99	1	1	1	1	1	1	1	1	0.9	0.9	0.9	1	1	1	1	0.9	0.9	1	1
ZZZZZZZ	Other uncategorized efficiency	0.99	0.99	0.99	0.99	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



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