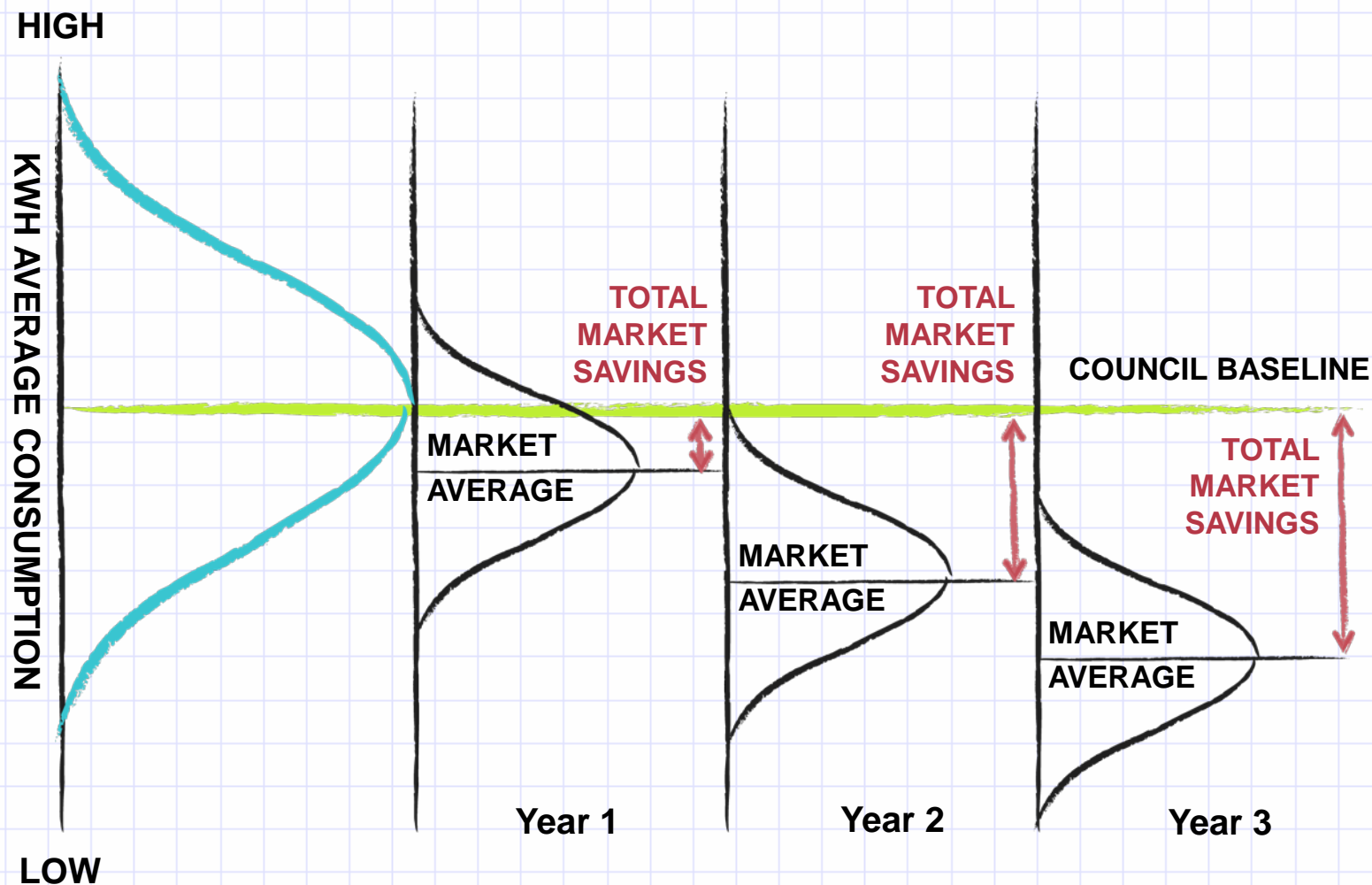
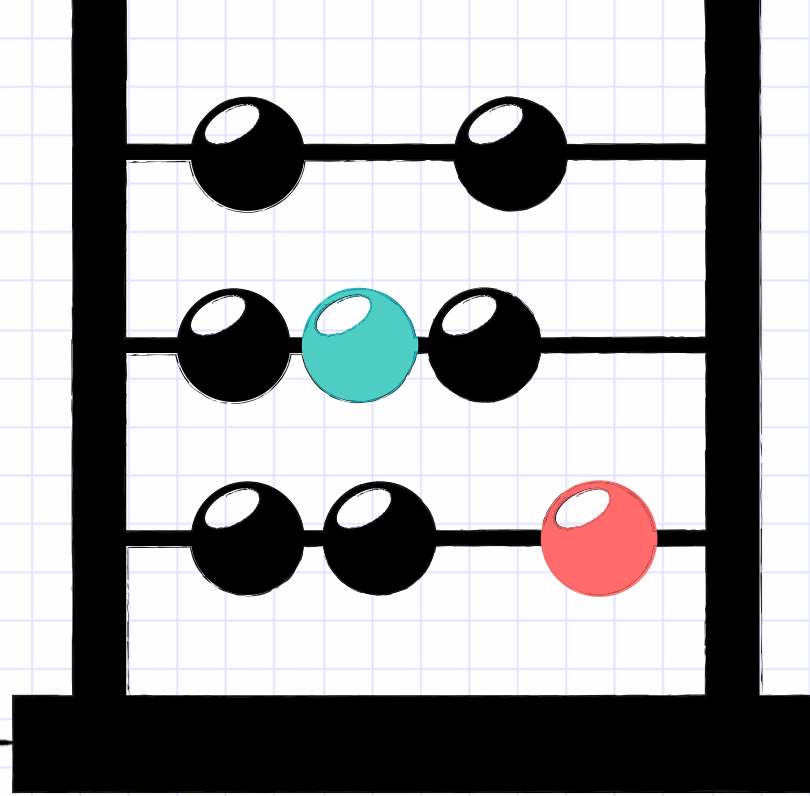


Analytical Steps to Avoid **DOUBLE COUNTING** in Momentum Savings

Momentum Savings Analyses are Total Market Analyses





WHAT is Double Counting?

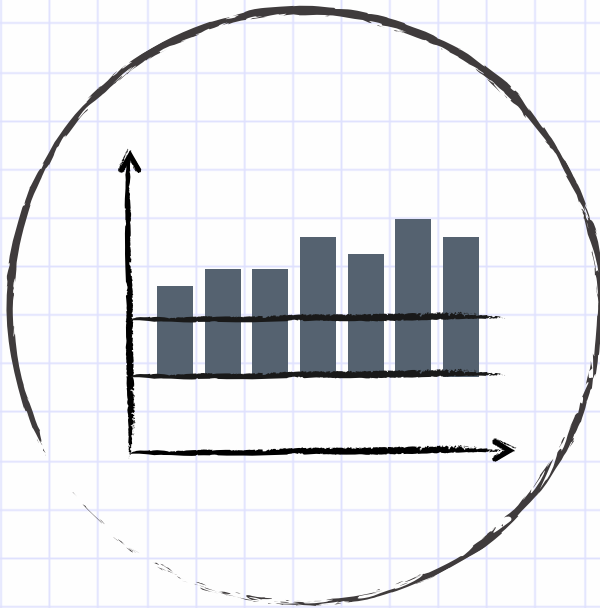


**Double-counting
happens when you
COUNT
the same savings
TWICE.**

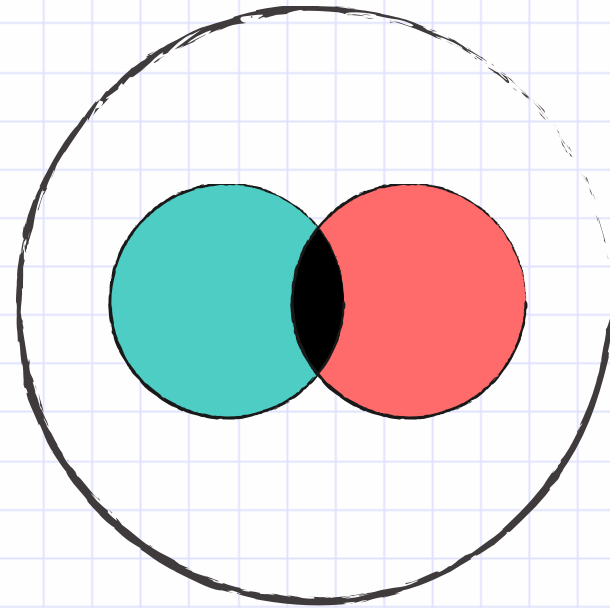


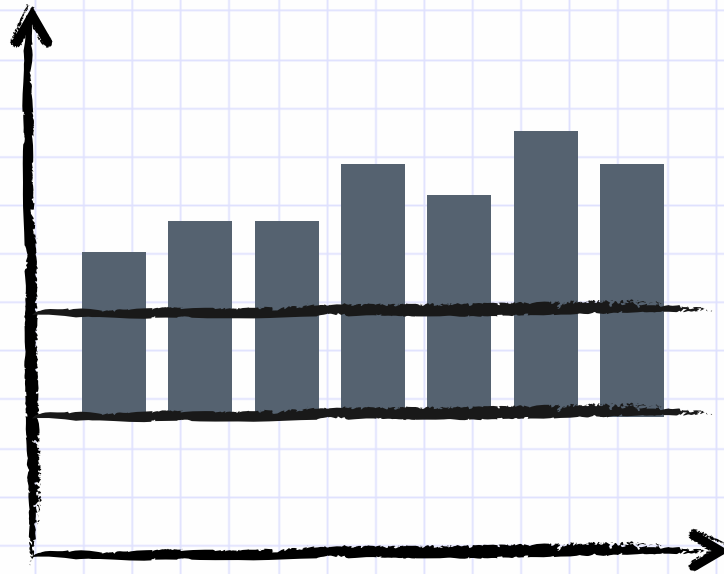
There are two kinds of double counting

**Double-Counting
Baseline Savings**



**Overlap between
Savings**

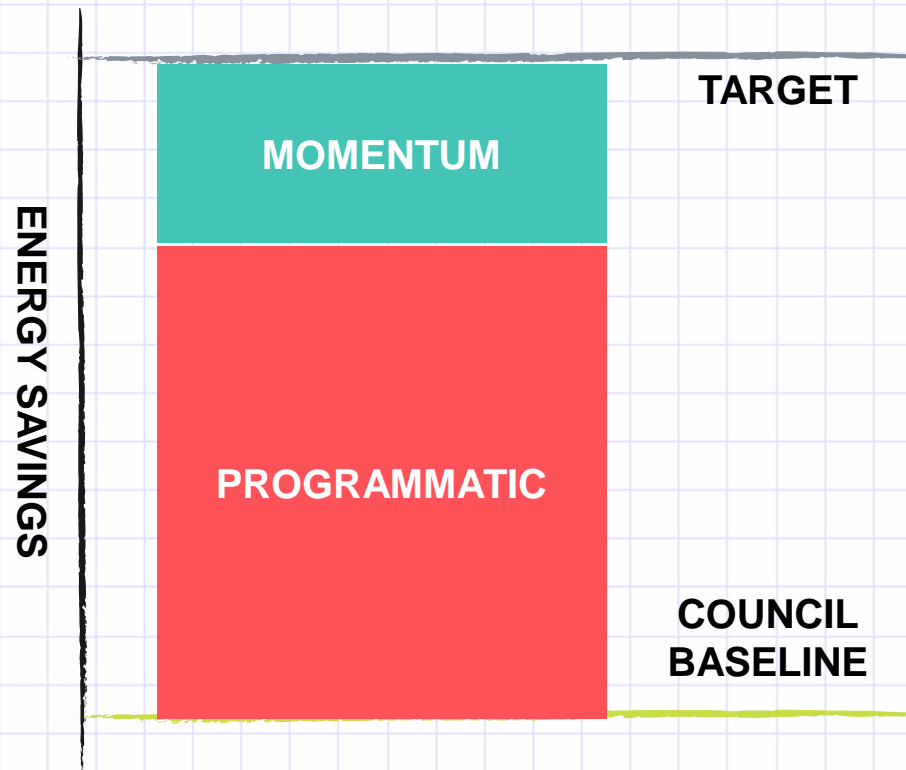




DOUBLE COUNTING

Baseline Savings

Momentum Savings Analyses are tracked from the Council baseline

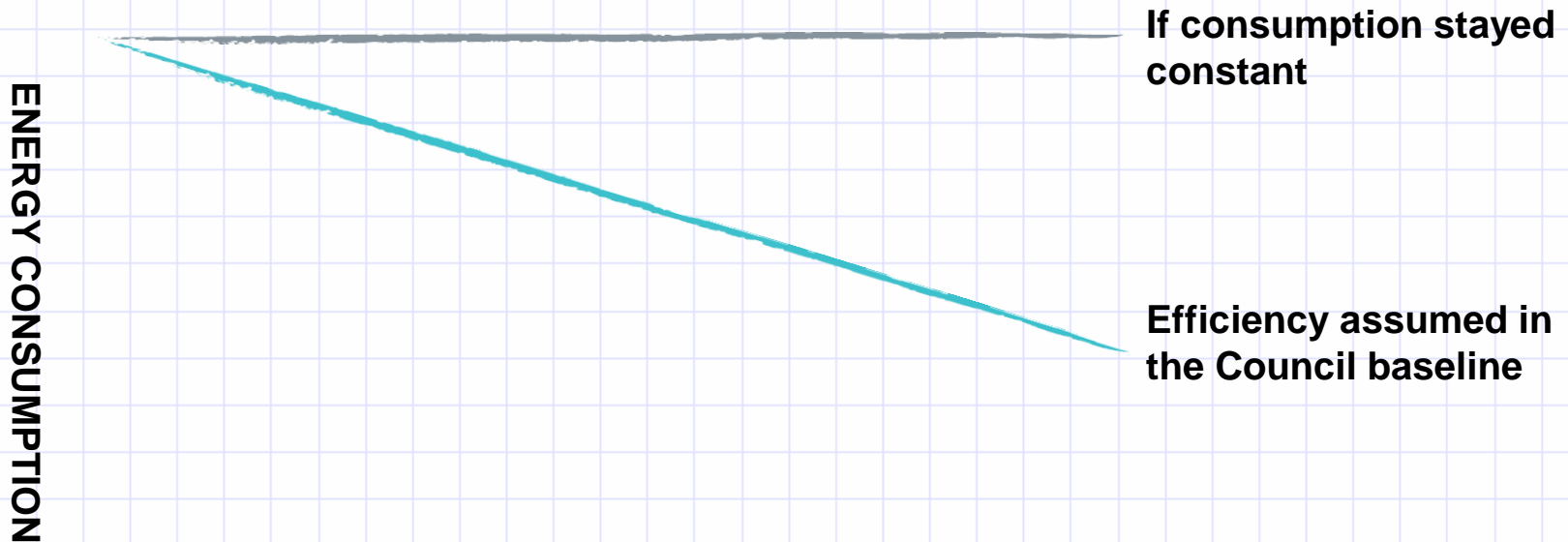


There is efficiency assumed in the Council baseline

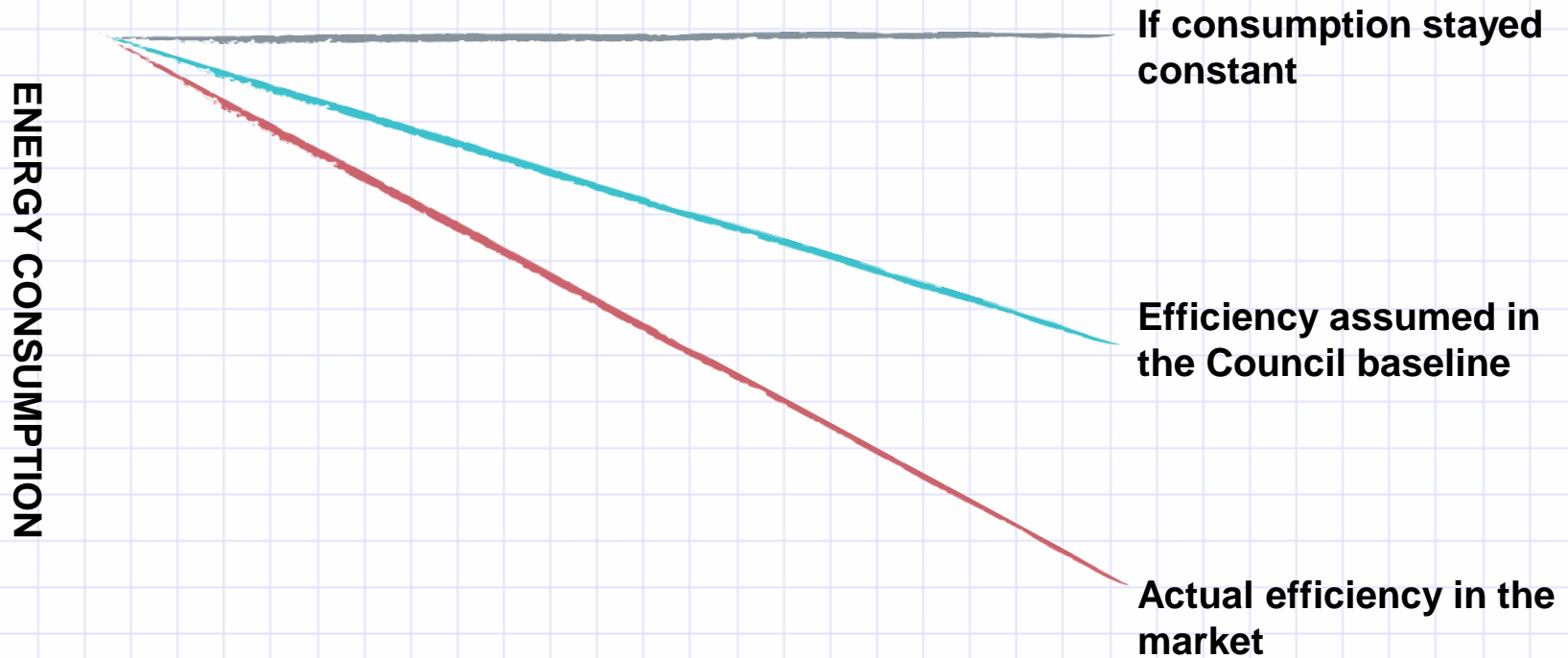
ENERGY CONSUMPTION

If consumption stayed constant

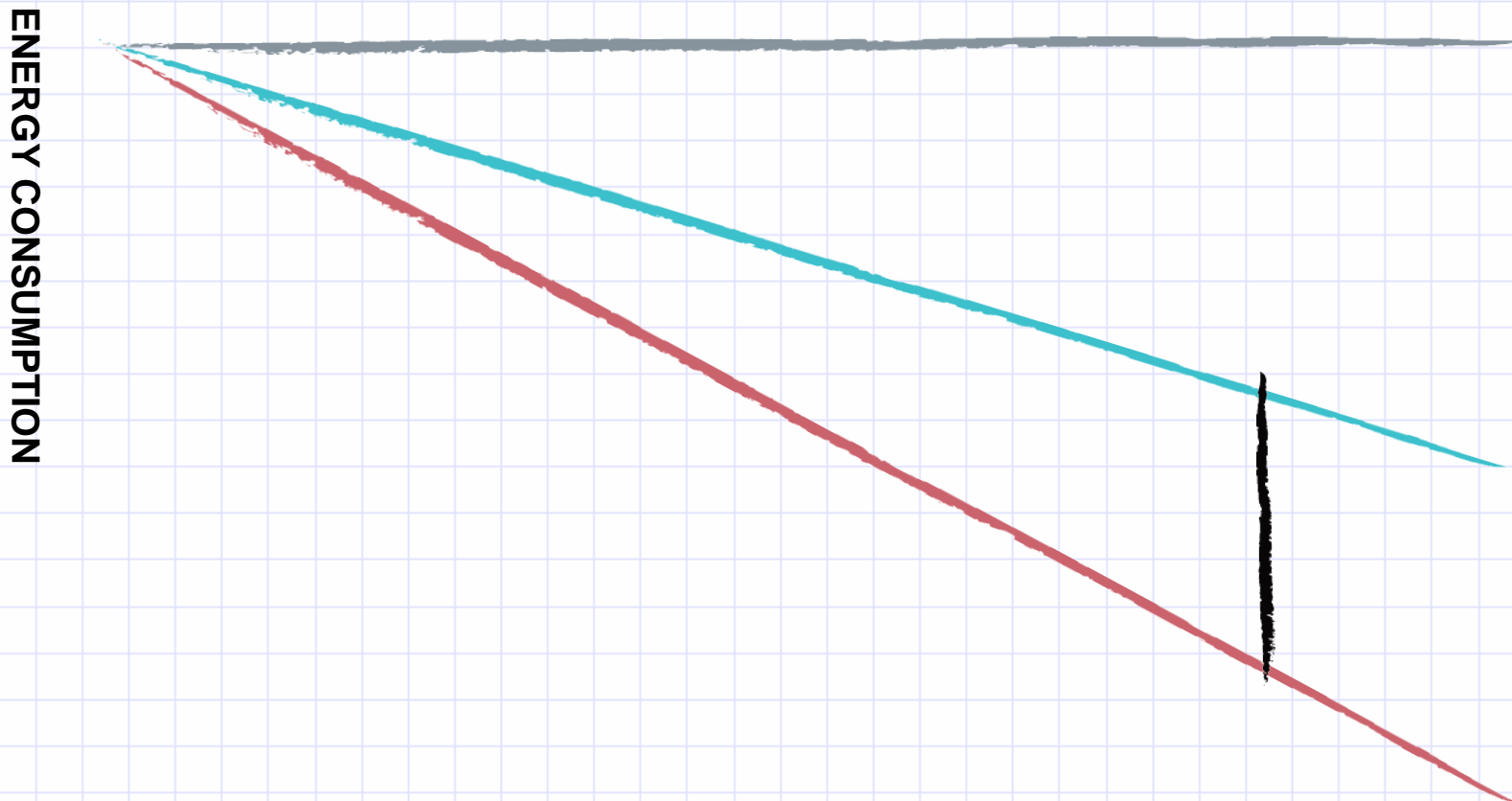
There is efficiency assumed in the Council baseline



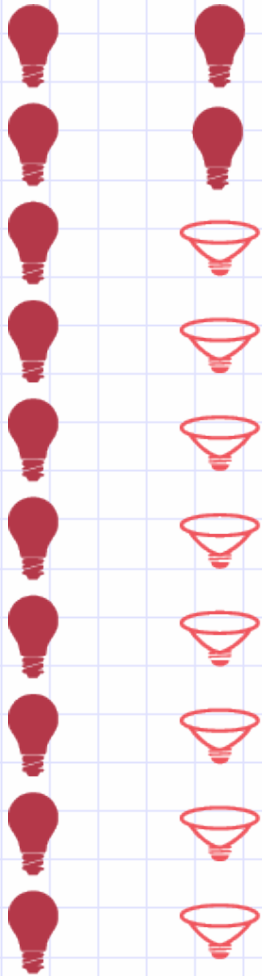
There is efficiency assumed in the Council baseline



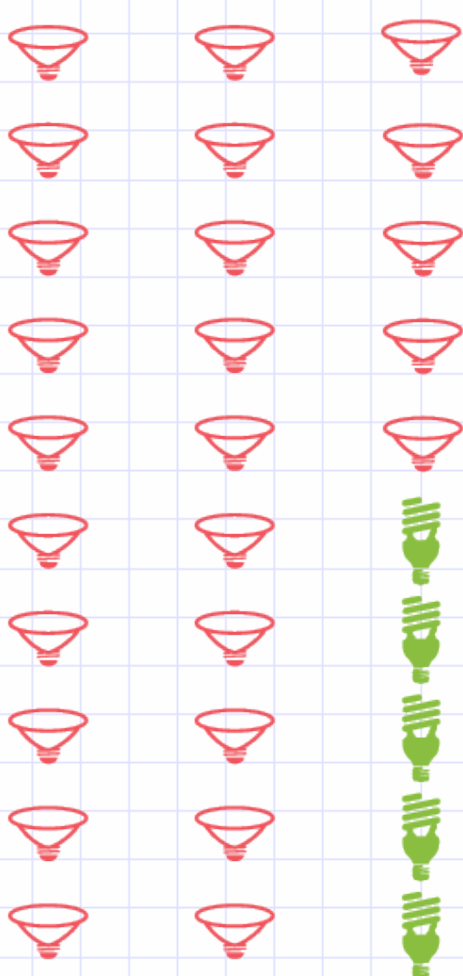
Getting the baseline right is the most important way to avoid double-counting



12%



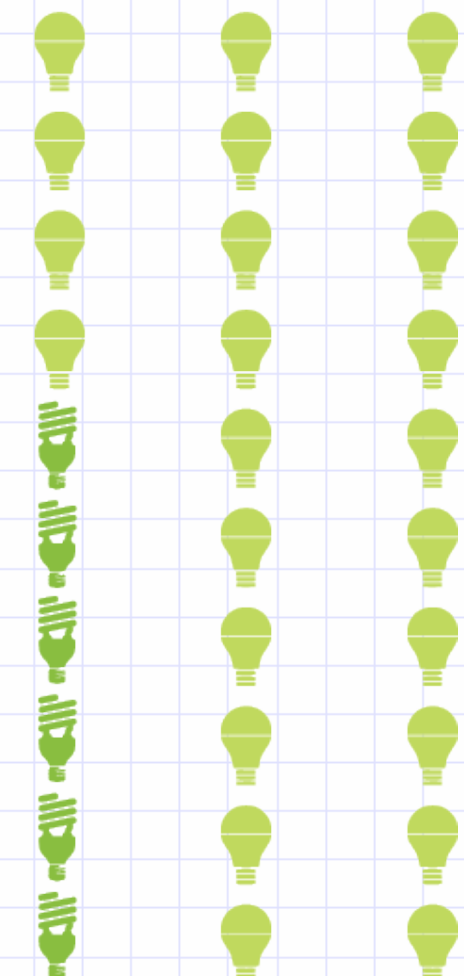
33%



31%



24%



2015



INC



HAL

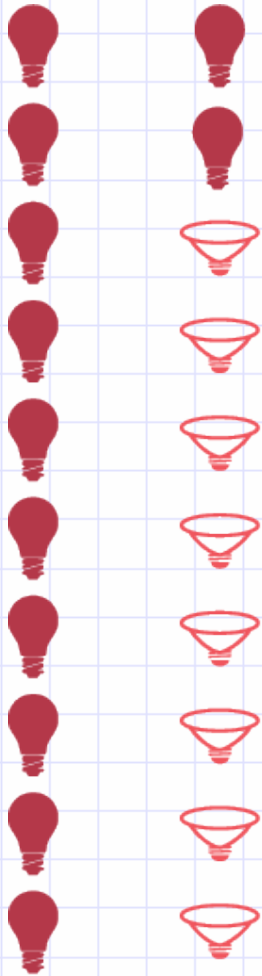


CFL

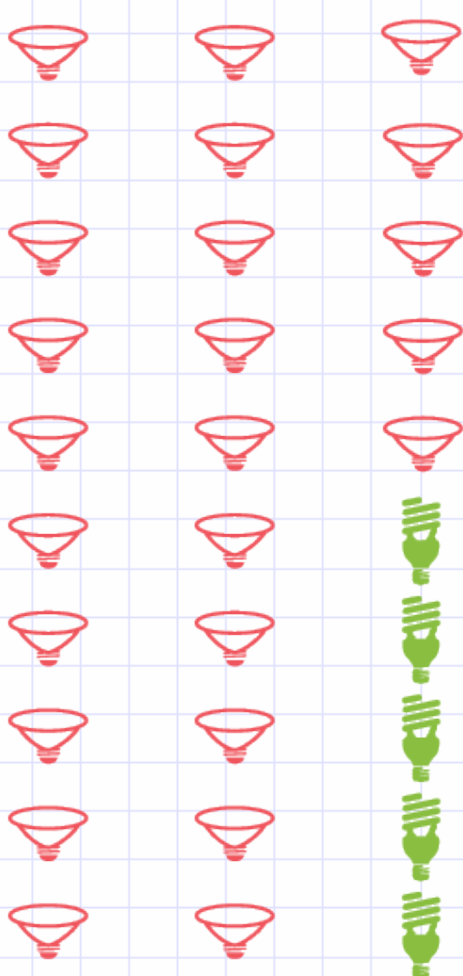


LED

12%



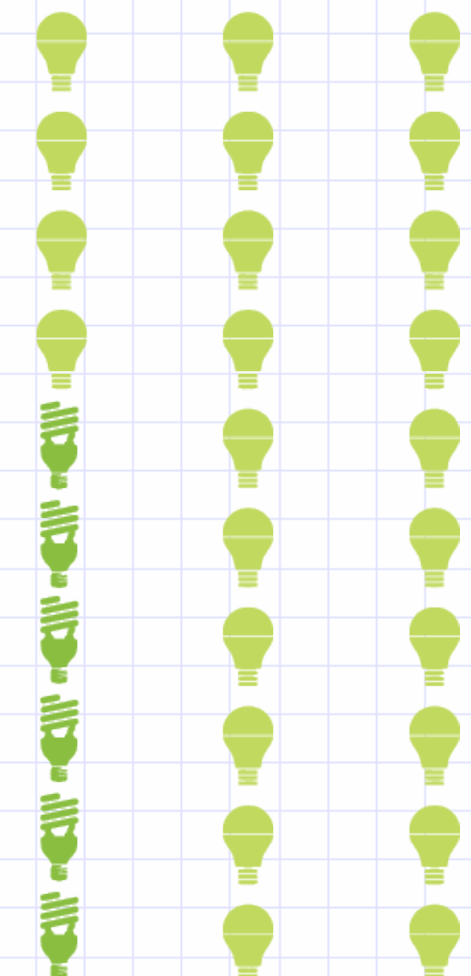
33%



31%



24%



2016



INC



HAL

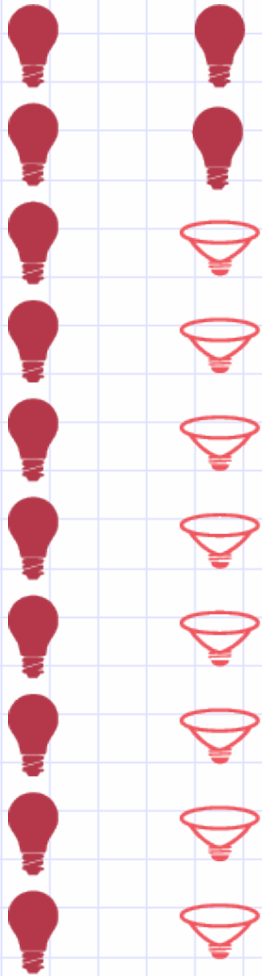


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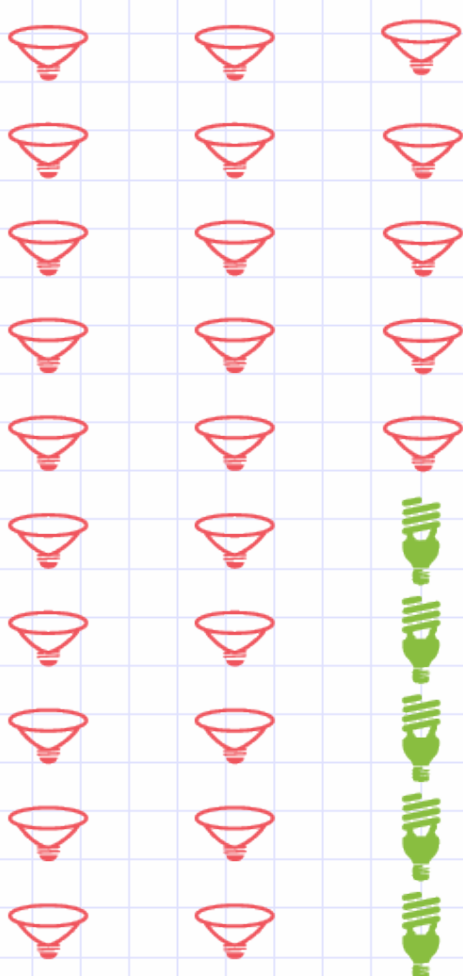


LED

12%



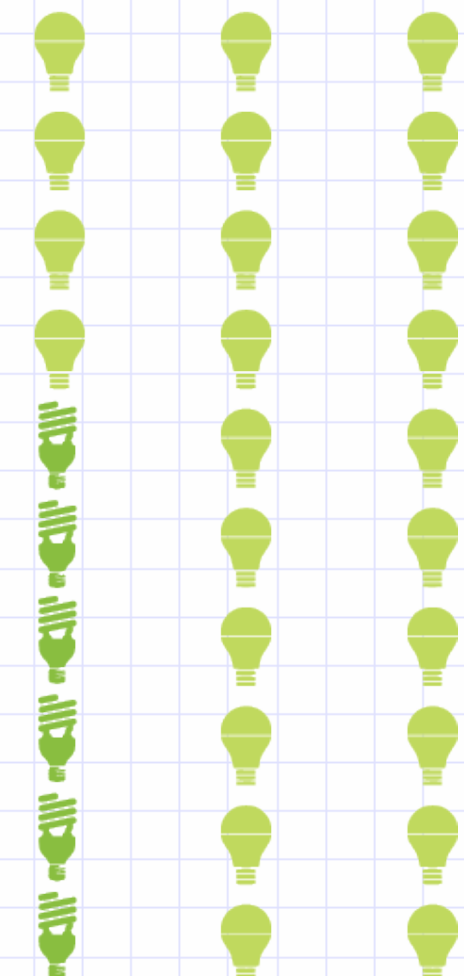
33%



31%



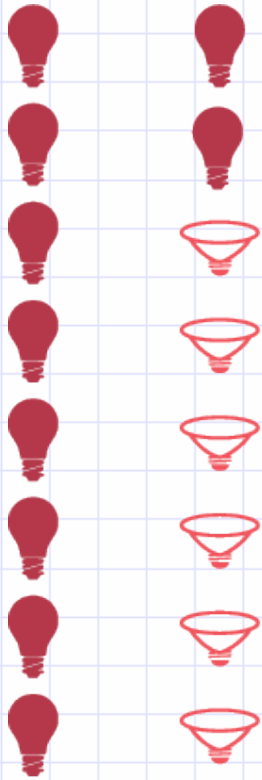
24%



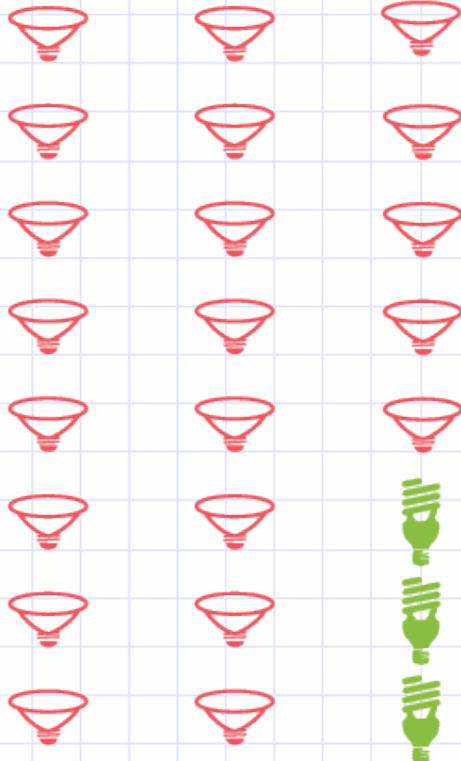
2017



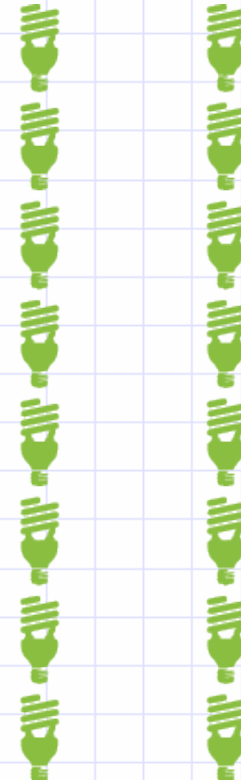
12%



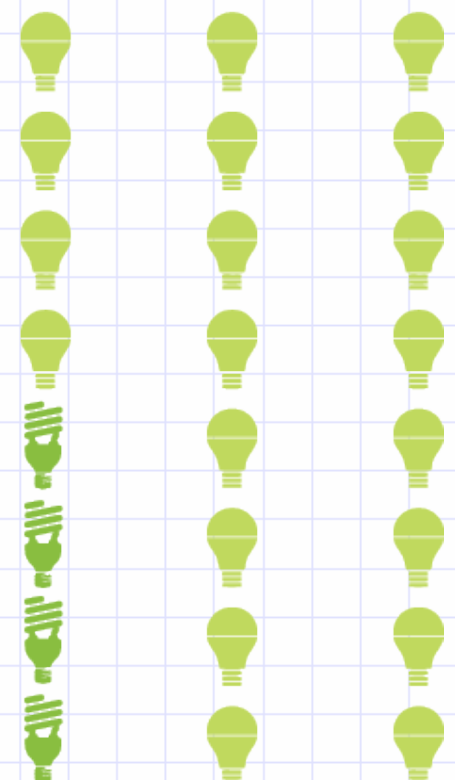
33%



31%



24%



Counting these bulbs in green is double-counting

2018



INC



HAL

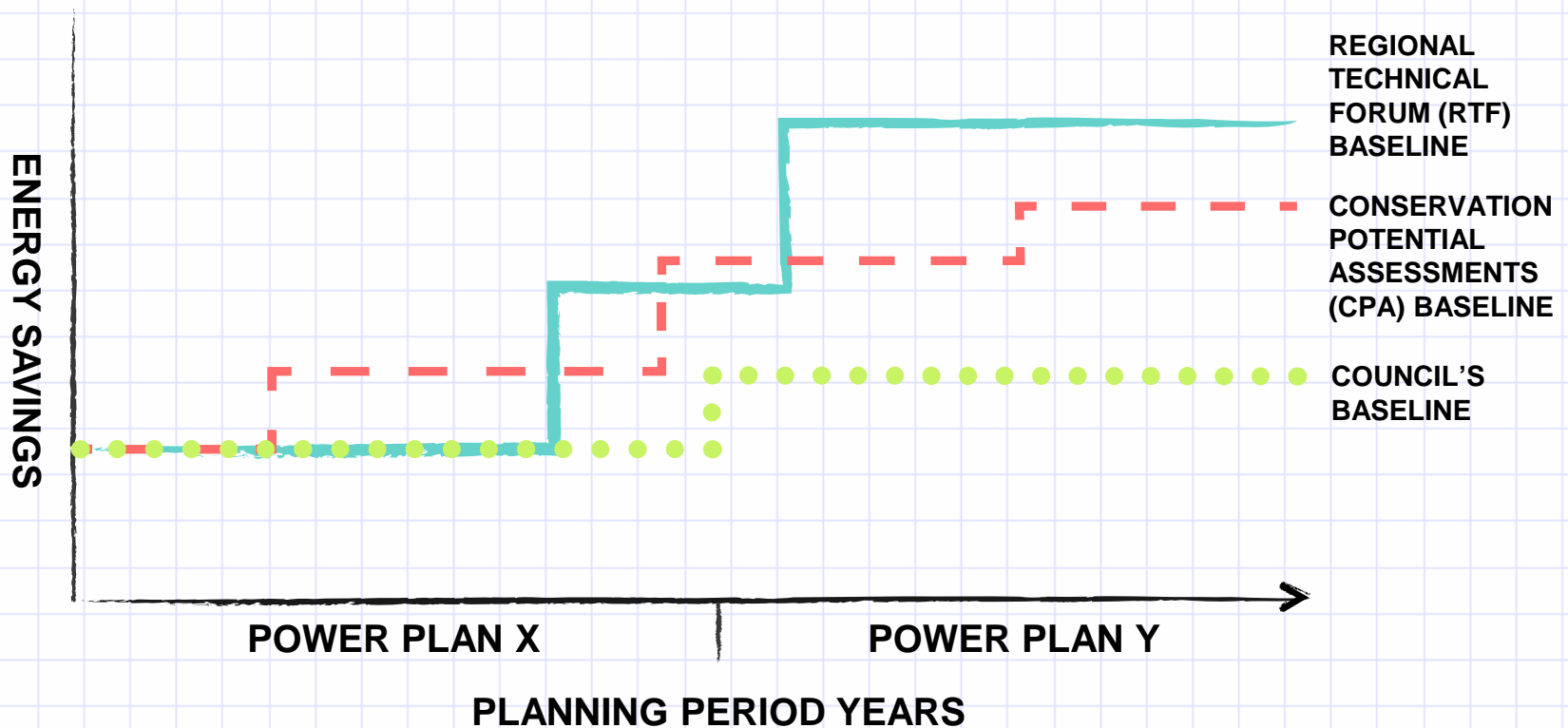


CFL

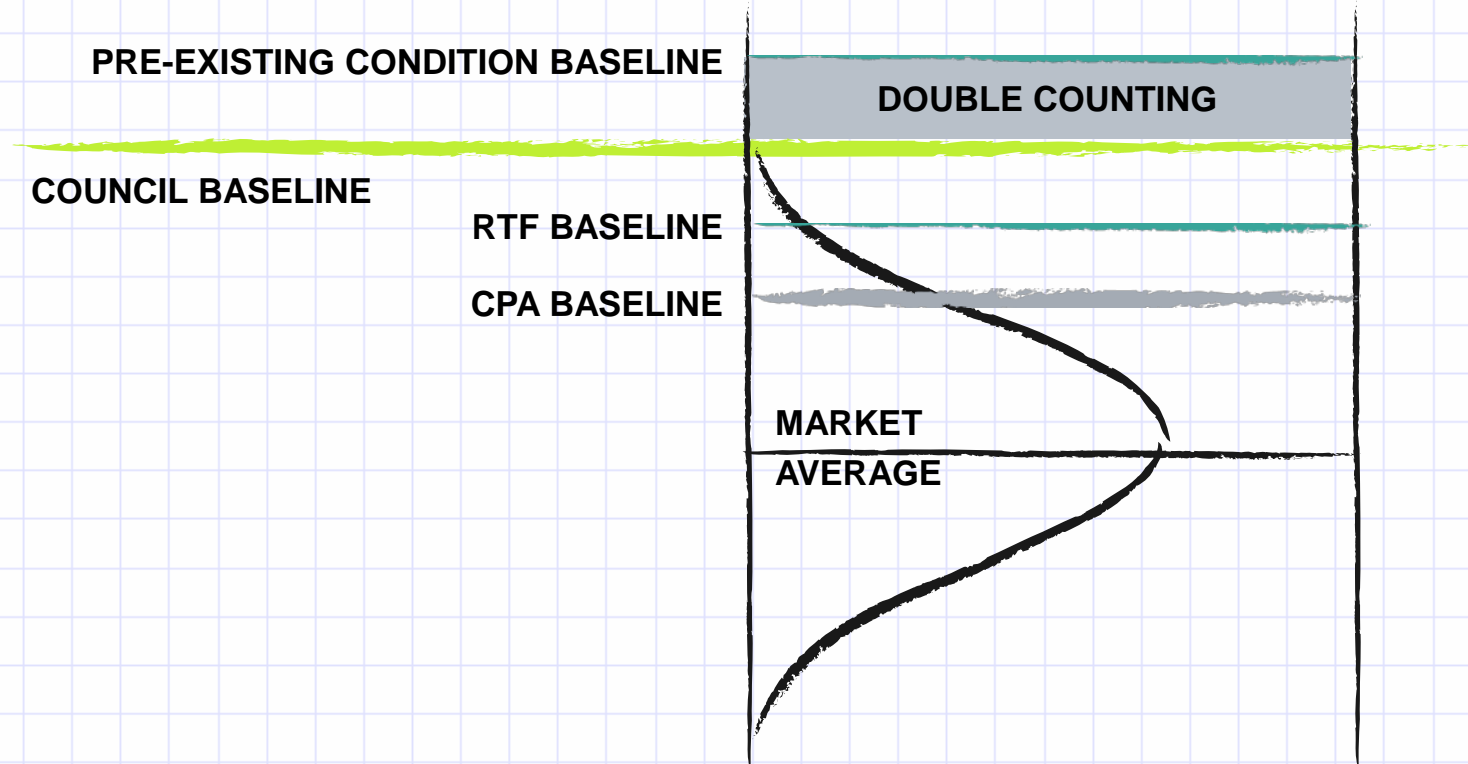


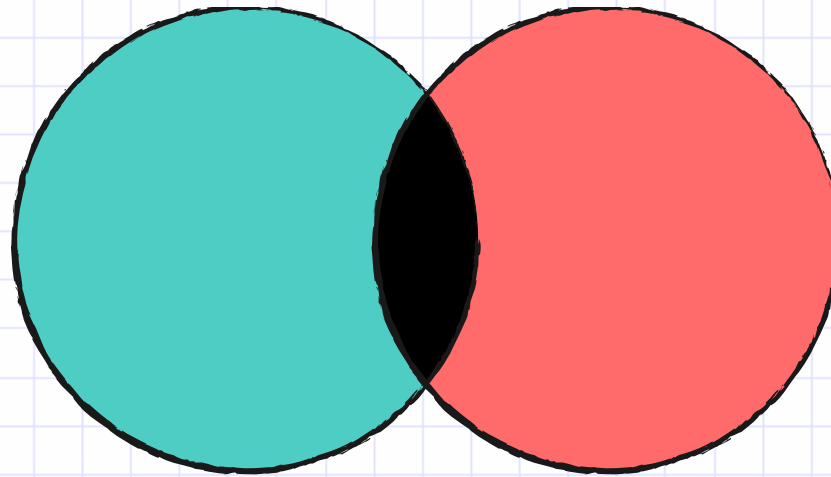
LED

The region uses many different baselines for reporting energy savings



We true up program savings for double counting



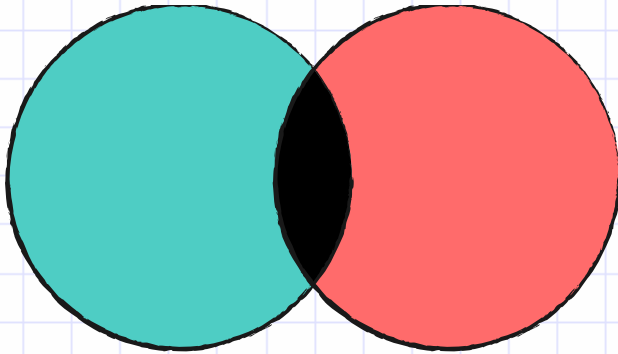


OVERLAP
Savings

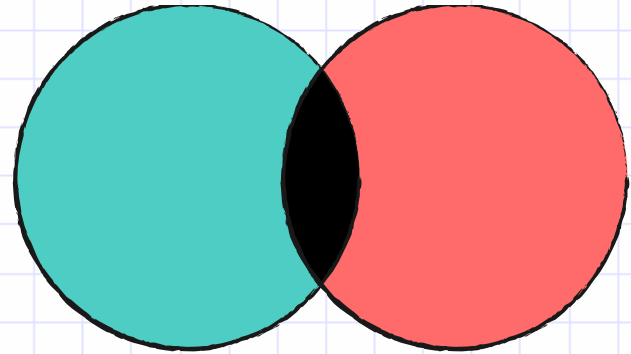


What is Overlap?

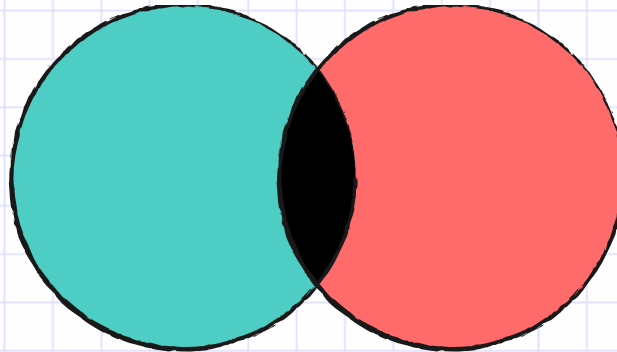
TECHNOLOGY



EFFICIENCY LEVELS



TIME





Correcting for Overlap

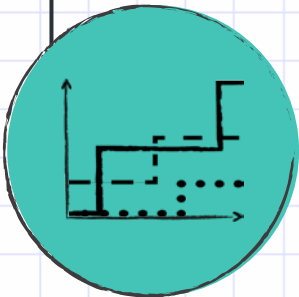
IDENTIFY

QUANTIFY

DEDUCT

Sources of Savings Overlap

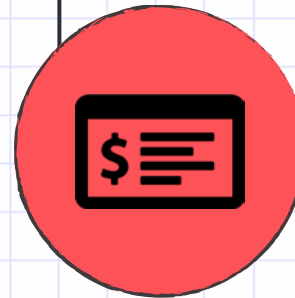
**Momentum
Savings
Models**



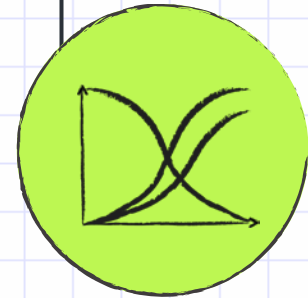
**Codes +
Standards
Savings**



**Program
Savings**

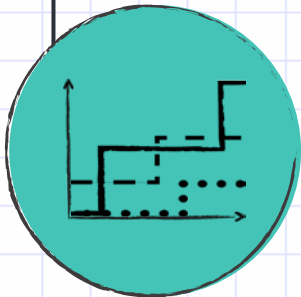


**NEEA
Program
Savings**



Sources of Savings Overlap

**Momentum
Savings
Models**



**Codes +
Standards
Savings**



**Program
Savings**



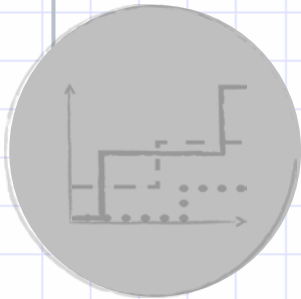
**NEEA
Program
Savings**



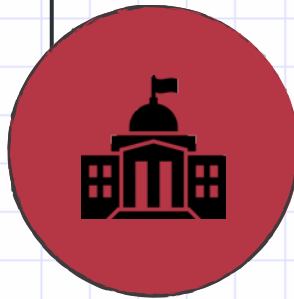


Sources of Savings Overlap

Momentum
Savings
Models



Codes +
Standards
Savings



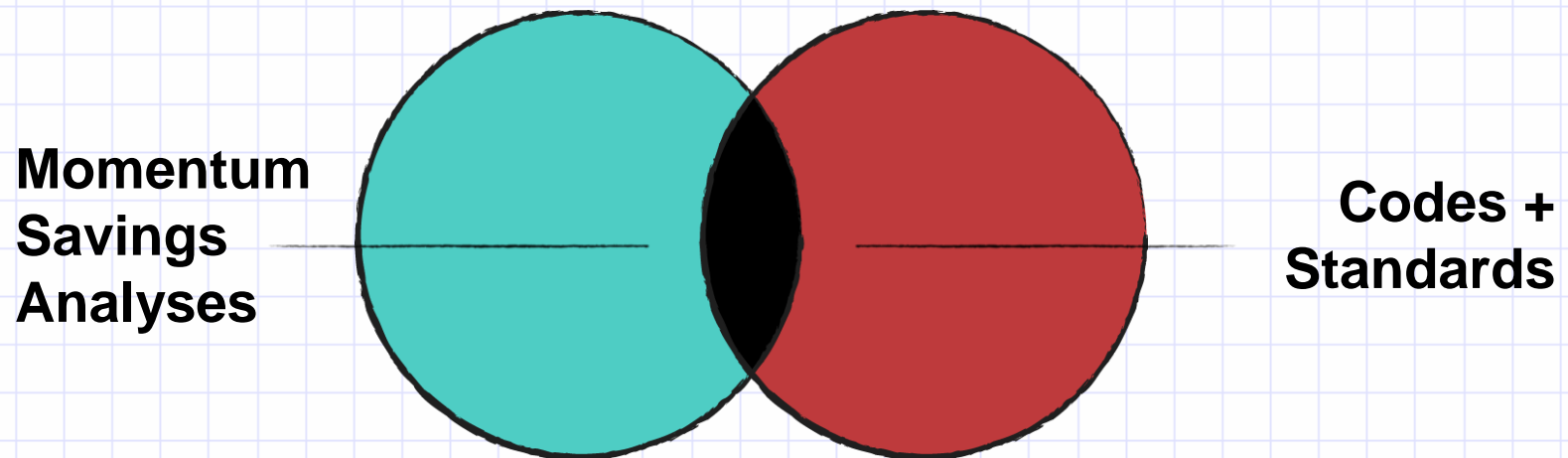
Program
Savings



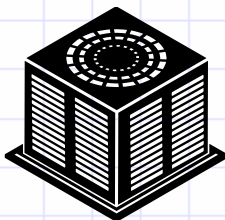
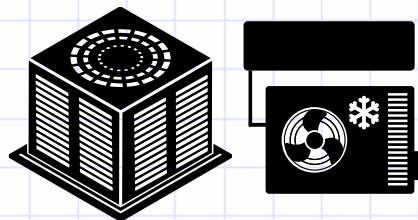
NEEA
Program
Savings





Overlap Between Momentum Savings Analyses and Codes + Standards



Example: Residential Heat Pumps

	Momentum Savings from Residential HVAC Market	Momentum Savings from Heat Pump Standards	Overlap?
Technology			✓
Efficiency Levels	7.7 – 11.5 HSPF	7.7 – 8.2 HSPF	✓
Time	2010-2014	2015	X

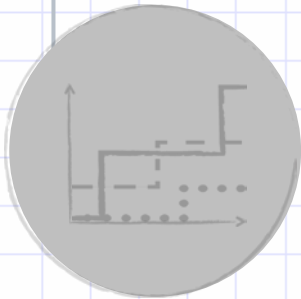
Example: Small Packaged AC

	Washington State Commercial Building Code	Momentum Savings from Packaged AC Standards	Overlap?
Technology			✓
Efficiency Levels	Minimum 14.0 SEER for Single Package Units < 5 tons	Minimum 14.0 SEER for Single Package Units < 5 tons	✓
Time	Compliance in 2015	Compliance in 2017	✓



Sources of Savings Overlap

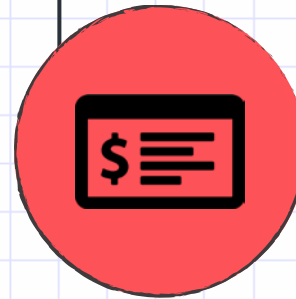
Momentum
Savings
Models



Codes +
Standards
Savings



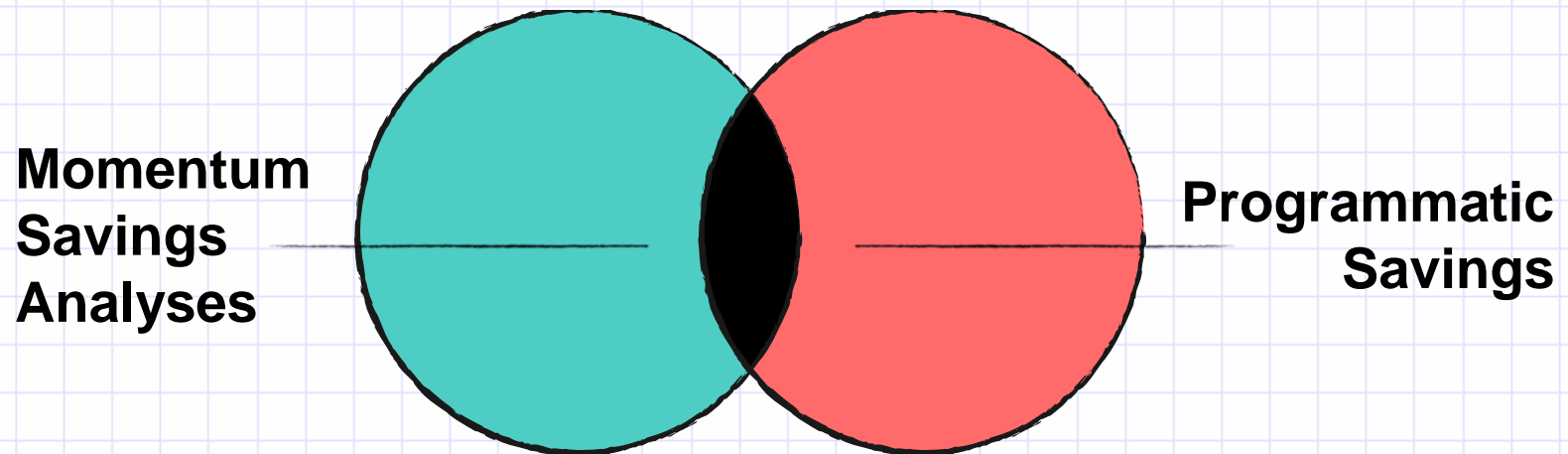
Program
Savings



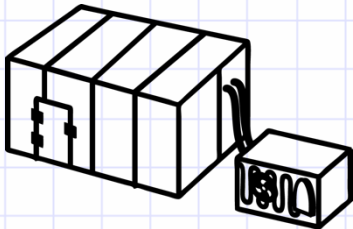
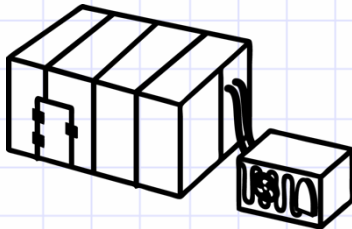
NEEA
Program
Savings



Overlap Between Momentum Savings Analyses and Programmatic Savings



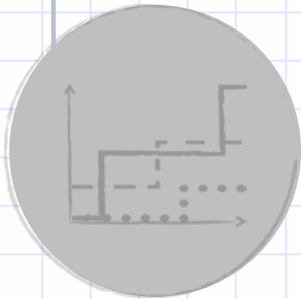
Example: Walk-in Coolers

	Program Savings from Custom BPA Refrigeration Project	Momentum Savings from Walk-in Cooler Standards	Overlap?
Technology			✓
Efficiency Levels	Not Specified, Assumed Overlap	Depends on Component (Insulation, Motors, Lighting, and Doors)	✓
Time	2015	2014-2015	✓



Sources of Savings Overlap

Momentum
Savings
Models



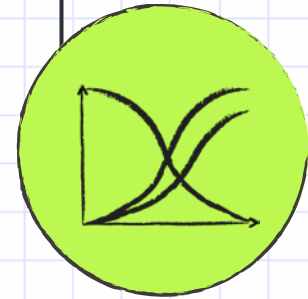
Codes +
Standards
Savings



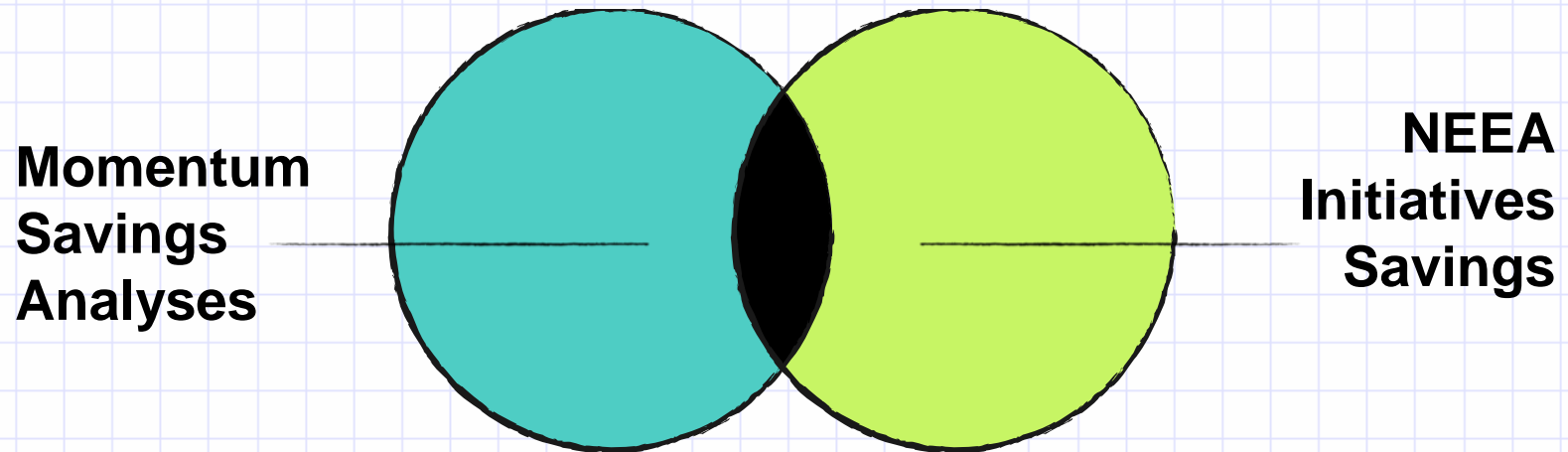
Program
Savings




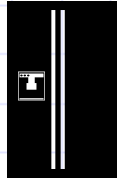
NEEA
Program
Savings



Overlap Between Momentum Savings Analyses and Savings from NEEA Initiatives



Example: Refrigerators

	NEEA Savings from Energy Star 4.0	Momentum Savings from Refrigerator Standards	Overlap?
Technology			✓
Efficiency Levels	Baseline to EnergyStar 4.0	Baseline to Federal Standard (> EnergyStar 4.0)	✓
Time	2010-2015	2015	✓



Correcting for Overlap

IDENTIFY

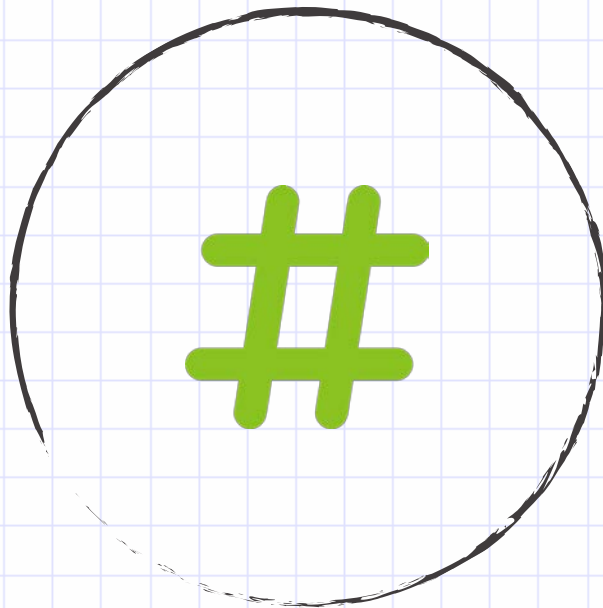
QUANTIFY

DEDUCT

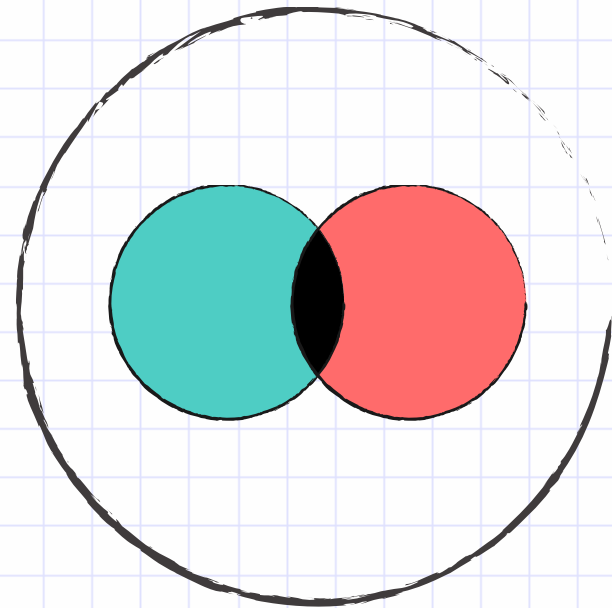


Two Key Numbers

Quantity of Units



Efficiency Levels





Correcting for Overlap

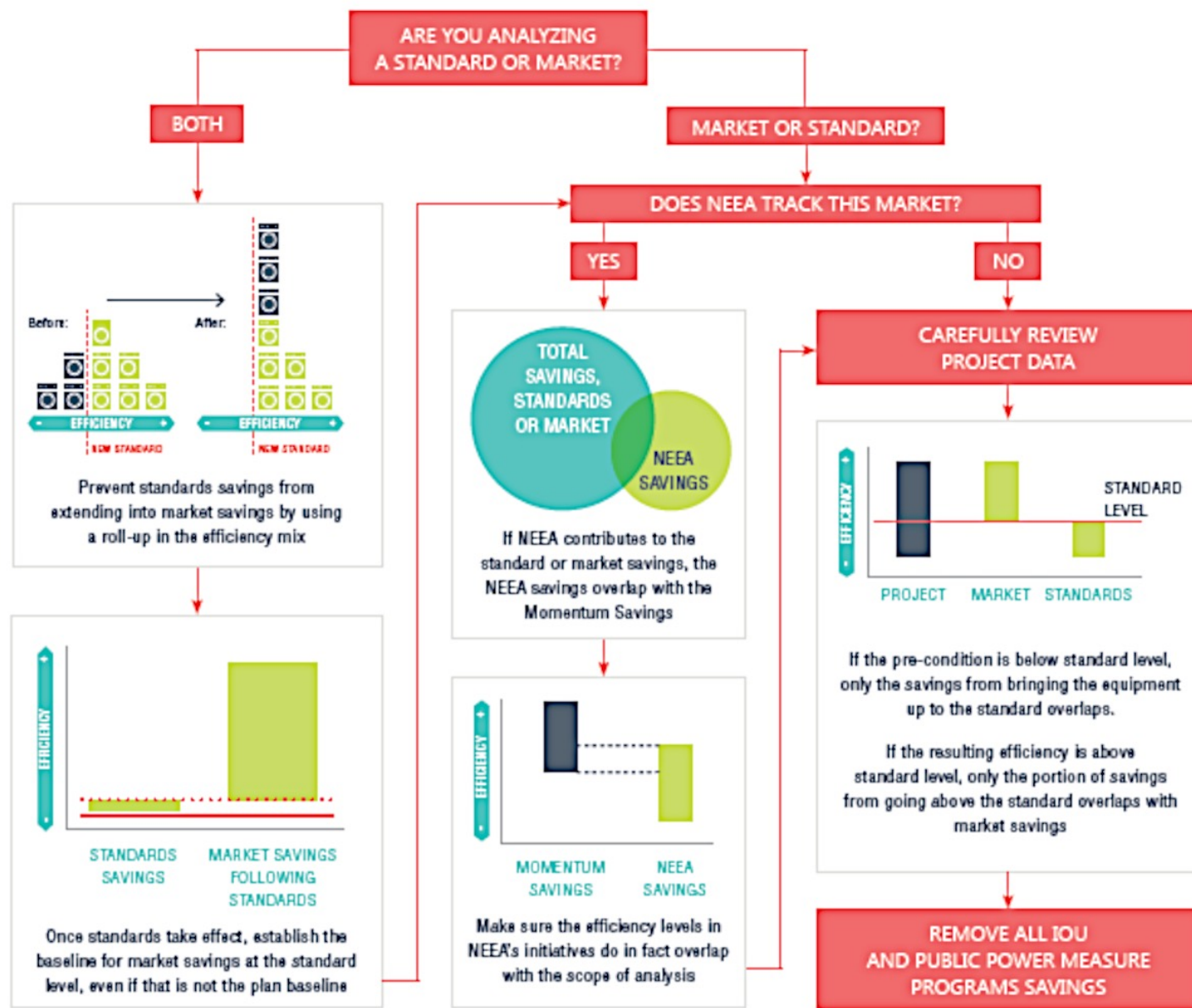
IDENTIFY

QUANTIFY

DEDUCT

A GUIDE TO AVOID DOUBLE COUNTING MOMENTUM SAVINGS

Overlap occurs when two analyses find savings from the same efficiency levels, of the same technology, at the same time. This graphic will help analysts avoid and correct for this type of overlap when estimating momentum savings from standards and markets.



TRUING-UP BASELINES

BPA and other entities must claim energy savings—programmatic, momentum, or otherwise—against a predetermined baseline. Most often, entities in the Northwest use the baseline as defined in the Northwest Power and Conservation Council's (the Council) current power plan. Unfortunately, not all analysts in the energy efficiency industry interpret the Council's defined baselines in the same way, or in some instances, use them at all. This complicates savings estimates, and may result in double-counting or lost savings opportunities. To avoid this pitfall, analysts must first identify and reconcile the baselines used in each analysis. Doing so will ensure analysts count savings from a common starting point and accurately capture overlap.