



APEX
ANALYTICS

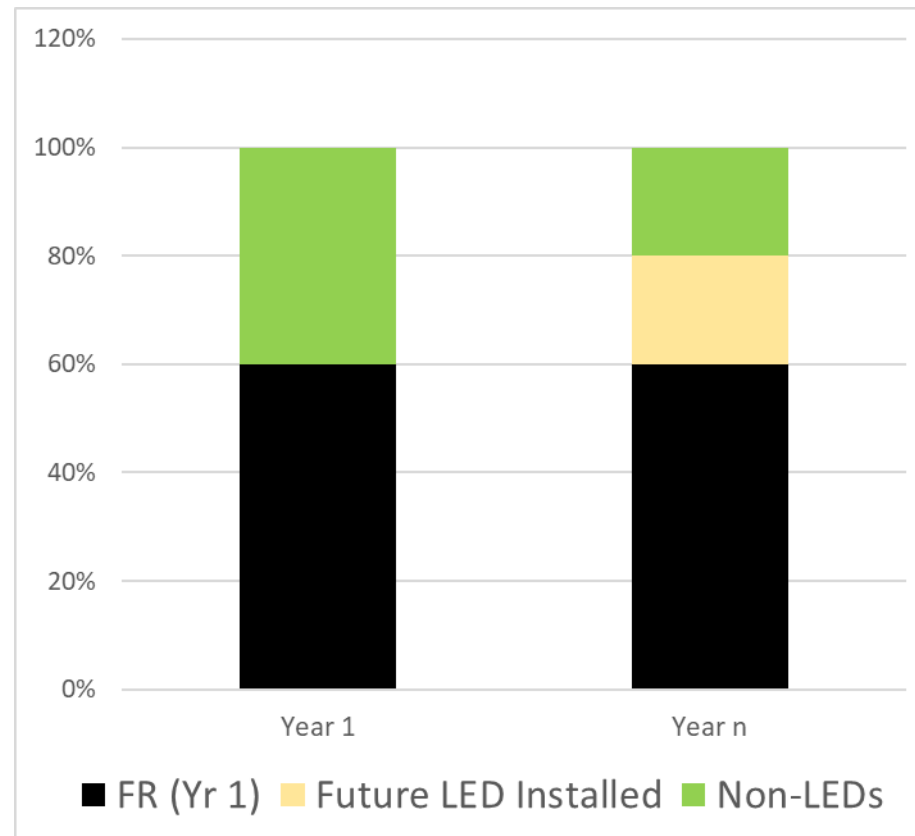
Residential Lighting EUL Adjustments

July 21, 2020

Conceptual Approach to Modeling



- Freerider savings already zeroed out
- Adjust the year-to-year savings for the non-freeriders
- May not reflect typical consumer (e.g., laggards)



Adjusting Baseline – IL Approach (A-lines)



- Start with stipulated forecast of naturally occurring adoption
- Based on non-program states recent market share, plus DOE saturation forecast

Natural LED Growth per year	8% 8% 8% 5% 5% 5% 5% 5% 5% 5% 3% 2%														
Baseline Lighting Forecast Committee Derived Assumptions for Market Share Absent a Program															
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
LED			48%	52%	56%	61%	64%	67%	70%	74%	77%	81%	85%	88%	90%
CFL			2%	3%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
Halogen			43%	40%	38%	34%	31%	28%	27%	24%	20%	16%	12%	10%	8%
Incandescent			7%	5%	5%	5%	4%	4%	3%	3%	3%	2%	2%	2%	2%

Adjusting Baseline – IL Approach (A-lines)



- Calculate converted baseline adjustment
- Delta watts decreases accordingly

For LED Purchased in 2020			2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
		LED (+CFL)	57%	62%	65%	68%	70%	74%	77%	81%	85%	88%
	Baseline	HAL	38%	34%	31%	28%	27%	24%	20%	16%	12%	10%
		INC	5%	5%	4%	4%	3%	3%	3%	2%	2%	2%
			100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Cumulative % of initial non-freeriders (i.e. those that would have purchased inc/hal) who would have shifted			10%	18%	25%	30%	39%	47%	56%	66%	72%
		LED Watts	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
	1st year base watts		47.1									
	Non-Freerider delta watts (gross)		37.5	33.6	30.9	28.2	26.1	23.0	19.8	16.4	12.8	10.6

