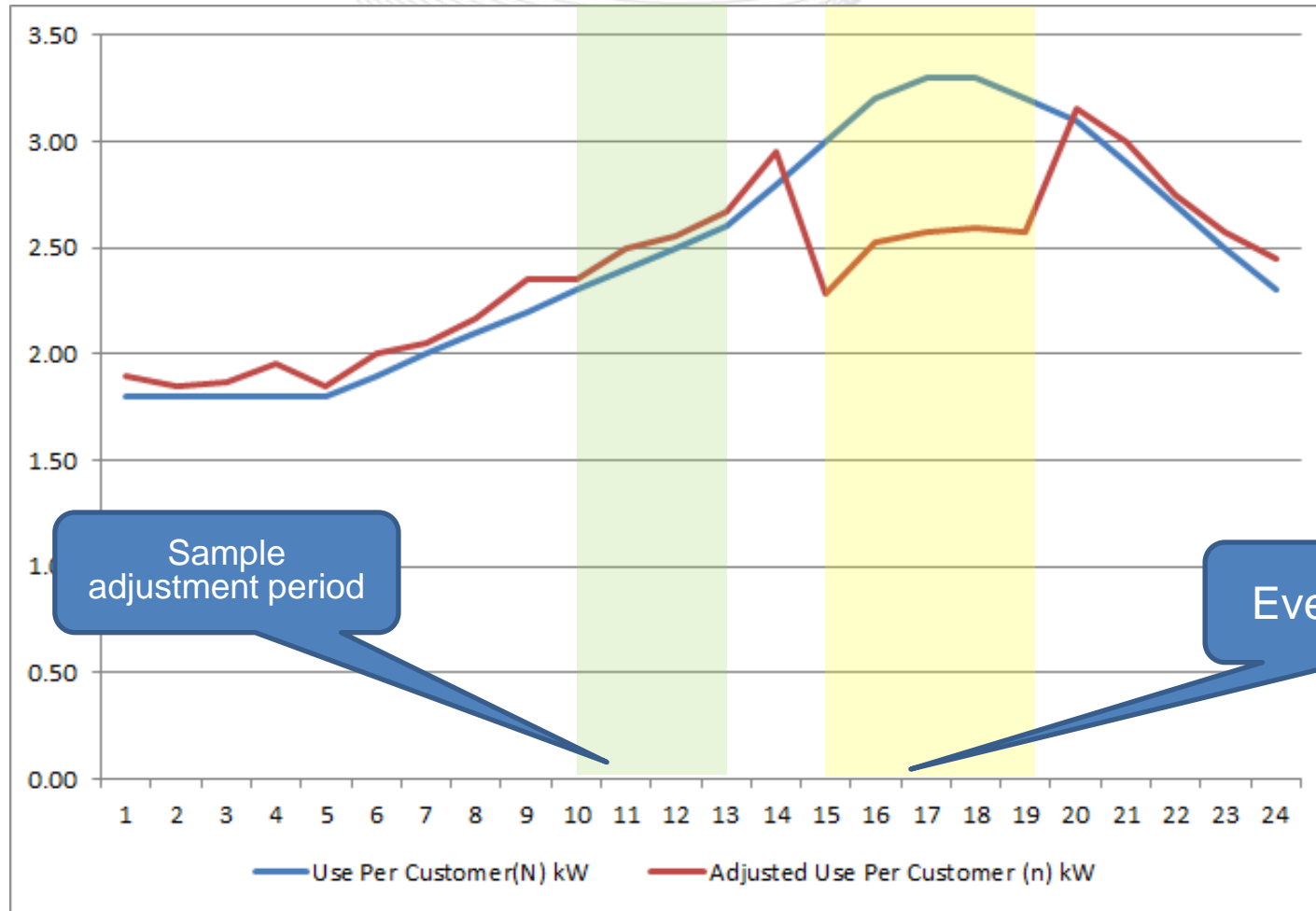# Load Forecast Adjustment proposal – measurement and verification

SODSTF

- 90/10 sample (n) with hourly data that will not be dispatched during peak shaving events
  - Random stratified sample – leverage existing non-meter sampling rules
    - [Residential M&V training material](#)
- Load Reduction = (Adjusted User Per Customer sample – Use Per Customer population) * Customers in population
  - Adjustment = Average UPC population/Average UPC sample, for 3 hours that start 5 hours before first event hour (skip 2 hours prior to first event hour)
    - This is done to calibrate sample usage with population usage in case there is drift in the sample

		Population (N) - reduce load				Sample(n) - control group						
Date	HE	Customers(N)	Usage(N) kW	Use Per Customer(N) kW		Customers (n)	Usage(n) kW	Use Per Customer(n) kW	Adjustment Factor	Adjusted Use Per Customer (n) kW	Load Reduction per customer kW	Load Reduction total kW
7/12/2018	1	300,000	540,000	1.80		180		1.90	1	1.90		
7/12/2018	2	300,000	540,000	1.80		180		1.85	1	1.85		
7/12/2018	3	300,000	540,000	1.80		180		1.87	1	1.87		
7/12/2018	4	300,000	540,000	1.80		180		1.95	1	1.95		
7/12/2018	5	300,000	540,000	1.80		180		1.85	1	1.85		
7/12/2018	6	300,000	570,000	1.90		180		2.00	1	2.00		
7/12/2018	7	300,000	600,000	2.00		180		2.05	1	2.05		
7/12/2018	8	300,000	630,000	2.10		180		2.17	1	2.17		
7/12/2018	9	300,000	660,000	2.20		180		2.35	1	2.35		
7/12/2018	10	300,000	690,000	2.30		180		2.35	1	2.35		
7/12/2018	11	300,000	720,000	2.40		180		2.50	1	2.50		
7/12/2018	12	300,000	750,000	2.50		180		2.55	1	2.55		
7/12/2018	13	300,000	780,000	2.60		180		2.67	1	2.67		
7/12/2018	14	300,000	840,000	2.80		180		2.95	1	2.95		
7/12/2018	15	300,000	900,000	3.00		180		2.35	0.973	2.29	0.71	214,054
7/12/2018	16	300,000	960,000	3.20		180		2.60	0.973	2.53	0.67	201,081
7/12/2018	17	300,000	990,000	3.30		180		2.65	0.973	2.58	0.72	216,486
7/12/2018	18	300,000	990,000	3.30		180		2.67	0.973	2.60	0.70	210,649
7/12/2018	19	300,000	960,000	3.20		180		2.65	0.973	2.58	0.62	186,486
7/12/2018	20	300,000	930,000	3.10		180		3.15	1	3.15		
7/12/2018	21	300,000	870,000	2.90		180		3.00	1	3.00		
7/12/2018	22	300,000	810,000	2.70		180		2.75	1	2.75		
7/12/2018	23	300,000	750,000	2.50		180		2.57	1	2.57		
7/12/2018	24	300,000	690,000	2.30		180		2.45	1	2.45		
Adjustment				2.4				2.47	0.973			