















How Does it Work?

The most common type of profile baseline uses what is known as a **High X of Y** methodology which looks back over a specified number of days Y and uses the meter data from the X days with the highest load within those Y days.

- Selecting Y (the "look-back window"):
 - Y must be short enough to capture recent trends, but long enough to combat opportunities for gaming
 - Y must only include appropriate days (i.e. non-event, Business Days)
- Selecting X:
 - Because dispatches are most likely to occur on days with aboveaverage temperature/demand, using all days in Y would result in an understated baseline
 - Using a subset of X days with the highest energy usage during program hours helps to offset this downward bias
- The average usage during each interval on the X days is then averaged together to create a forecast for each interval on the current/future day

ENERNOC

(kW) 2,033 2,133
2,033 2,133
2,133
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2,033
2,300
2,033
2,133
2,367
2,033
2,633
2,033











Day 1 Day 2 Day 3 Day 4	Participant 1 200 200	Participant 2 65	Participant 3	Aggregate Load	
Day 1 Day 2 Day 3 Day 4	200 200	65	100		
Day 2 Day 3 Day 4	200		100	365	
Day 3 Day 4		65	80	345	
Dav 4	200	65	70	335	
	200	130	80	410	
Day 5	200	130	60	390	
Day 6	0	130	80	210	
Day 7	0	130	110	240	
Day 8	150	130	100	380	
Day 9	150	65	125	340	
Day 10	150	65	100	315	
5-in-10, Individual	200	130	107	378	
5-in-10, Aggregate	190	104	84	378	
or the highlighted loads in er participant's loads on the fiv Days for the ag	ach column is shown e peak days for the a gregate port	under 3-10-10, Indir ggregate load is sho folio of sites	nidual. The average wm under 5-in-10, . s, Days 1, 2	e of each Aggregate. 2, 4, 5, and	3 8 would be
	Day 7 Day 8 Day 9 Day 10 5- <i>in</i> -10, <i>Individual</i> 5- <i>in</i> -10, <i>Aggregate</i> The top five loads are highlighted loads in et arritipant's loads on the fiv Days for the ag	Day 7 0 Day 8 150 Day 9 150 Day 10 150 5-m-10, Individual 200 5-m-10, Aggregate 190 The top five loads are highlighted in blue for each of the highlighted loads in each column is shown arricipant's loads on the five peak days for the aggregate port Days for the aggregate port unt 1's High 5 days match 80	Day 7 0 130 Day 8 150 130 Day 9 150 65 Day 10 150 65 5-m-10, Individual 200 130 5-m-10, Aggregate 190 104 The top five loads are highlighted in blue for each participant and for it in highlighted loads in each column is shown under 3-m-10, Individual shore arritighted in blue for each participant so loads on the five peak days for the aggregate load is shore arritighted is blue for the highlighted loads in each column is shown under 3-m-10, Individual so that aggregate load is shore arritighted in blue for each participant so loads on the five peak days for the aggregate load is shore and the highlighted loads in each column is shown under 3-m-10, Individual so the shore arritighted in blue for each participant and for the highlighted loads in each column is shown under 3-m-10, Individual so the shore arritighted in blue for each participant and for the highlighted loads in each column is shown under 3-m-10, Individual so the shore arritight to the highlighted in blue for each participant so add so the five peak days for the aggregate portfolio of sites Days for the aggregate portfolio of sites unt 1's High 5 days match 80% to the po	Day 7 0 130 110 Day 8 150 130 100 Day 9 150 65 125 Day 10 150 65 100 5-m-10, Individual 200 130 107 5-m-10, Aggregate 190 104 84 The top five loads are highlighted in blue for each participant and for the aggregate load of the highlighted loads in each column is shown under 3-m-10, Individual. The average ararticipant's loads on the five peak days for the aggregate load is shown under 3-m-10, Days for the aggregate portfolio of sites, Days 1, 2 Days for the aggregate portfolio of sites, Days 1, 2 unt 1's High 5 days match 80% to the portfolio, only	Day 7 0 130 110 240 Day 8 150 130 100 380 Day 9 150 65 125 340 Day 10 150 65 100 315 5-m-10, Individual 200 130 107 378 5-m-10, Aggregate 190 104 84 378 The top five loads are highlighted in blue for each participant and for the aggregate load. The average of the highlighted loads in each column is shown under 5-m-10, Individual. The average of each participant's loads on the five peak days for the aggregate load is shown under 5-m-10, Aggregate. Days for the aggregate portfolio of sites, Days 1, 2, 4, 5, and the site of the highlighted loads in each column is shown under 5-m-10, Aggregate. Days for the aggregate portfolio of sites, Days 1, 2, 4, 5, and the site of the aggregate portfolio of sites. Days 1, 2, 4, 5, and 1's High 5 days match 80% to the portfolio, only 60% of P







