

CUES Delivers Amazing 42% Compressor Energy Reduction at BP Gas Station!



Brief Overview

BP is an oil and gas “supermajor” with more than 6,900 stores in the United States. They have an outlined plan for transitioning to a lower-carbon footprint and they advocate for policies aimed at achieving Net Zero by 2050. As such, a busy store in Flowery Branch, GA agreed to trial CUES* in their walk-in cooler – reducing its energy usage by 42%.

After several consultations, the store manager agreed to trial CUES* in his walk-in cooler. Refrigeration at gas stations represents an opportunity to save money and increase the bottom line by reducing waste and minimizing their carbon footprint.

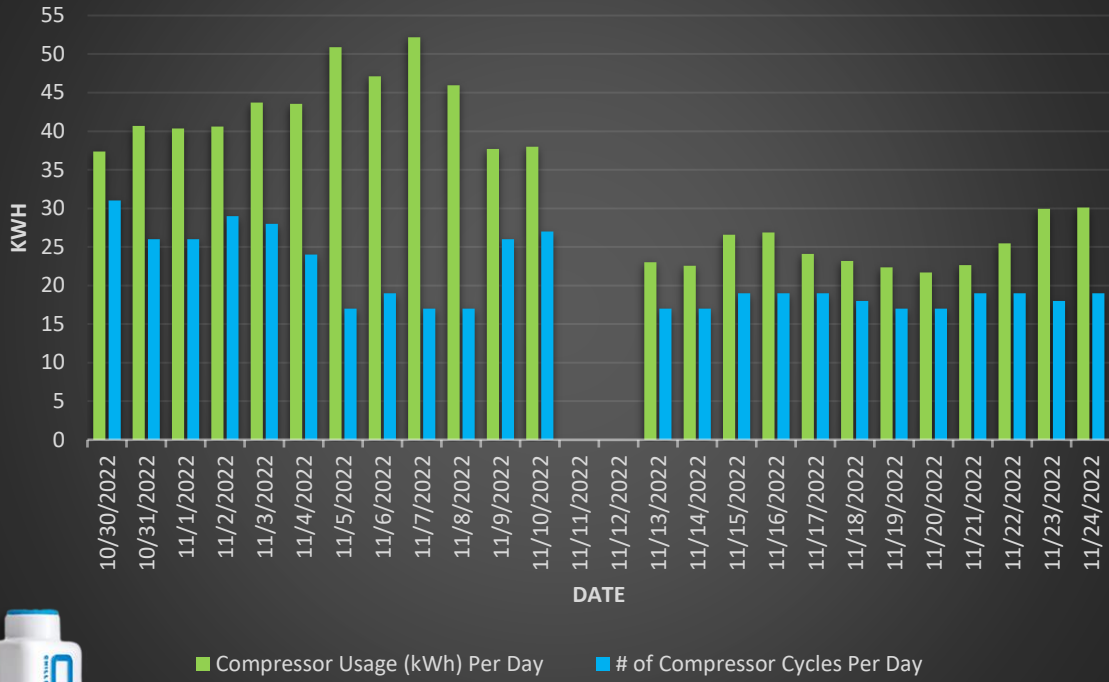
Project

A 12-day initial data monitoring period WITHOUT CUES* yielded that the compressor used 518kWh of energy and cycled 287 times. Following this initial survey, CUES* was installed, the system was cleaned and brought back to full freon capacity, and meters were adjusted to achieve the desired temperature. Over the same time period WITH CUES*...

...the compressor used 298kWh of energy and cycled 218 times. This demonstrated an energy reduction of 220kWh or 42%.

*CUES - Chilled Unit Energy Saver

SMS Grocery, Inc. | BP Gas Station | Flowery Branch, GA



- 42% Energy Reduction
- 25% Increase – Compressor Life



Before CUES			After CUES		
Date	Daily kWh	Daily Cycles	Date	Daily kWh	Daily Cycles
10/30/2022	37.38	31	11/13/2022	23.03	17
10/31/2022	40.68	26	11/14/2022	22.54	17
11/1/2022	40.37	26	11/15/2022	26.58	19
11/2/2022	40.59	29	11/16/2022	26.89	19
11/3/2022	43.71	28	11/17/2022	24.09	19
11/4/2022	43.55	24	11/18/2022	23.17	18
11/5/2022	50.88	17	11/19/2022	22.34	17
11/6/2022	47.13	19	11/20/2022	21.67	17
11/7/2022	52.18	17	11/21/2022	22.63	19
11/8/2022	45.95	17	11/22/2022	25.48	19
11/9/2022	37.69	26	11/23/2022	29.94	18
11/10/2022	38.01	27	11/24/2022	30.11	19

