



# 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.

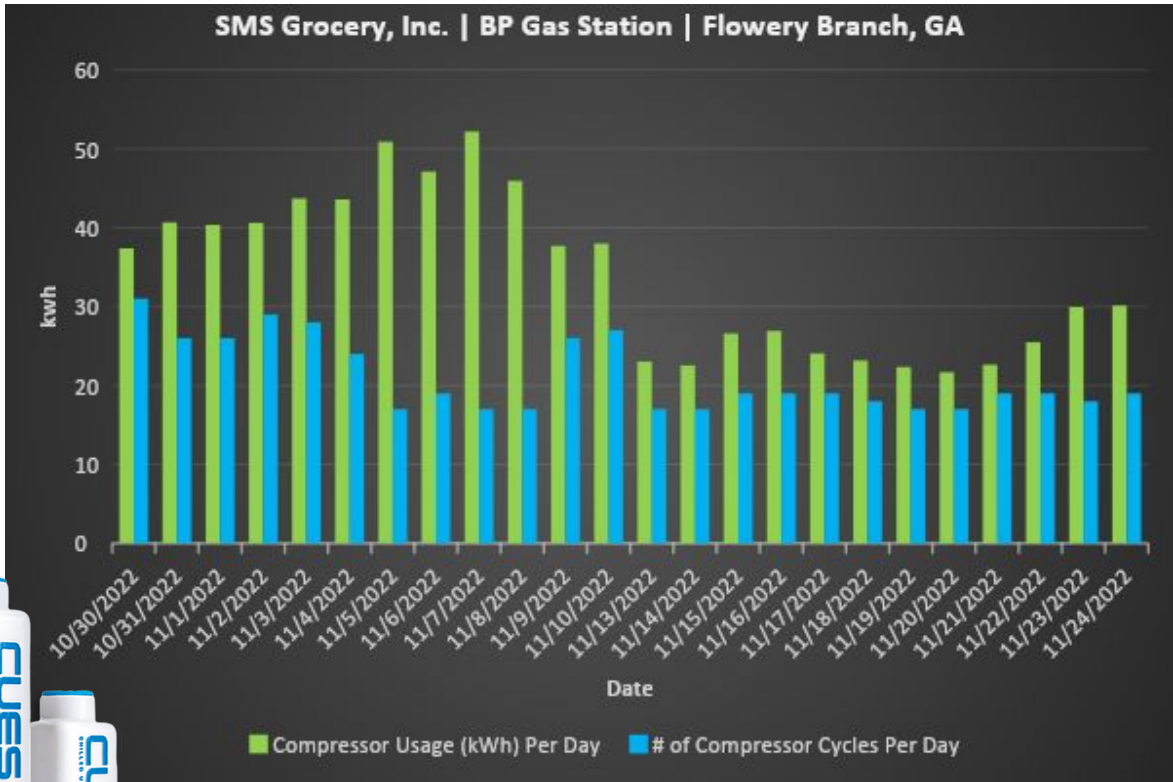
## Project

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 temperature was adjusted to achieve the desired range. 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





- 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

