

Project Summary

		May 22	Jun 22	Jul 22	Aug 22	Sep 22	Oct 22	Nov 22	Dec 22
Project Name:	Research and Analyze Commercial Foodservice Technologies								
Project ID:	ET22SWG0003								
Description:	Research technology adoption trends of commercial food service (CFS) equipment, market adoption barriers, and performance data of installed EE equipment. The goal is to provide recommendations to increase adoption and recommend technologies for further field testing. This project will examine equipment that uses hot water including convection ovens, steamers, fryers, combination ovens, conveyor ovens, griddles, conveyor broilers, rack ovens, steam tables and dishwashers.								

Expected Outcomes	Business Case	Policy Alignment
<ol style="list-style-type: none"> 1. Identification of specific barriers impacting adoption of CFS equipment and additional data/information required to inform strategies on how to overcome the barriers specific to technologies selected for further research. 2. Recommendations for further study and/or potential projects/pilots in CFS. 	<p>Food service represents the third highest end-use for natural gas savings potential in California. The achievable incremental potential is estimated to be less than 5% of the economic potential. Since economic potential represents the savings that meet cost-effectiveness threshold, it is important to understand the factors that keep the achievable potential low. This project will help the GET program identify the optimal approaches to overcome underlying barriers to increase adoption of EE CFS measures.</p>	<ul style="list-style-type: none"> • SB 350 Clean Energy and Pollution Reduction • California Long Term EE Strategic Plan • AB 802 Building Benchmarking • AB 32 (Global Warming Solutions Act) • SB 1477 (Building Decarbonization)

#	Risk/Issue Description	Status	Owner	Due Date
001	Availability of data collected as part of a previous ET study on steam tables	Active	Sabarish Vinod	Jul 22
002	Customer willingness to participate in market study and provide experience with equipment	Active	Sabarish Vinod	Nov 22



ET22SWG0003 Status Update

Task	Status	Impactful Findings
Market Barrier Study	Completed	<ul style="list-style-type: none"> • Most recent substantive study on CFS operations is from 2015 • CFS market has undergone many changes due to COVID-19 pandemic • Barriers <ul style="list-style-type: none"> • Fragmented market with diverse supply channel and end uses • Lack of readily available supply which may be exacerbated by supply chain issues from COVID-19 impacts • Increased cost of EE equipment • Lack of customer awareness of EE equipment advantages and performance • Manufacturers concentrate more efforts with large chains, but this leaves out a large number of independent restaurants
Commercial Foodservice Measure Selection	Completed	<ul style="list-style-type: none"> • Selected Measures for Deeper Study <ul style="list-style-type: none"> • Griddle • Underfired Broiler • Automatic Conveyor Broiler • Steam Tables
Market Potential	Completed	<ul style="list-style-type: none"> • Griddle has highest market potential at 1.8 million therms @ 5% penetration rate • Underfired broiler is second with 478k therms @ 5% penetration rate
Subject Matter Expert Interviews	Completed	<ul style="list-style-type: none"> • Highest Drivers for EE Adoption <ul style="list-style-type: none"> • Improved performance of EE equipment • Labor savings of EE equipment • Increased capacity of EE equipment leading to increased sales • Highest Barriers to EE Adoption <ul style="list-style-type: none"> • High premiums for EE equipment • Current supply-chain issues • Lack of customer awareness • One manufacturer noted that they are reluctant to invest in developing new gas-fired EE CFS equipment until future codes and standards are more predictable especially in California
Customer Interviews	Expected Q4 2022	None
Final Report	Expected Q4 2022	None