

SEM CASE STUDY / BIMBO BAKERIES USA, ESCONDIDO, CA

COOKING UP **BIG SAVINGS** THROUGH STRATEGIC ENERGY MANAGEMENT

Bimbo Bakeries USA in Escondido, California is no stranger to energy management. Prior to their participation in Strategic Energy Management (SEM), Bimbo Bakeries USA had installed a MW solar array that covers the roof of the bakery and provides covered parking for their staff. This array generates 25% of the energy used by the bakery. The facility was also well on their way to Energy Star Certification when they began SDG&E's SEM program in 2018.

In the SEM program, delivered by Cascade Energy and funded by SDG&E® Public Purpose Programs fund, the Escondido bakery took a deeper look at energy efficiency and organizational change management. The Bimbo Bakeries USA Energy Team set a goal of reducing 3% of their annual electricity and 2% of their annual natural gas usage, along with associated reductions in greenhouse gas emissions. They were soon to reap much greater savings than they expected.



We have seen tremendous value in Cascade SEM Programs.

KEVIN YAVARI | Corporate Sustainability Manager



Throughout their 4-year engagement in SEM, the bakery participated in several "treasure hunts" to identify energy saving opportunities. Matt Aguirre, Manager of Plant Maintenance, and Ramon Torres, Supervisor of Plant Maintenance were well-organized and resourceful in implementing 44 energy savings projects, large and small.



ACHIEVEMENTS AT-A-GLANCE



>10% (613,862) kWh
reduction in annual electric usage



>\$120,000
reduction in annual energy cost



290 Tons/Year
reduction in scope 1 & 2 CO₂ emissions



>\$25,000
in incentive payments





KEY SEM CHANGES

- 1 Turned off equipment when not in use.
- 2 Changed compressed air functionality to blowers.
- 3 Installed and optimized variable frequency drives (VFDs).
- 4 Adjusted compressor discharge pressure settings gradually to the right level (tweak 'n' peek).
- 5 Replaced legacy axial roof fans with more energy efficient options.
- 6 Repaired over 40 significant compressed air leaks.
- 7 Reduced scrap and rework rates.
- 8 Implemented setpoint controls on machinery.



PROJECT HIGHLIGHT

Cascade helped the Bimbo Bakeries USA Team secure a grant from the California Food Production Investment Program (FPIP) to replace their existing gas boiler with a more efficient modern boiler that is also expected to use less water. In addition to the grant, Cascade secured a \$20,000 incentive from SDG&E for the replacement. Energy savings and emissions reductions from this project are to be determined.

“

Cascade (Energy) helped us discover energy efficiency incentives available to us from SDG&E.

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MATT AGUIRRE
Maintenance Manager

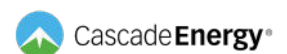
Interested in energy efficiency options for your facility in SDG&E territory?

For program questions, contact our SEM Coach or visit sdsmartindustrials.com



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