



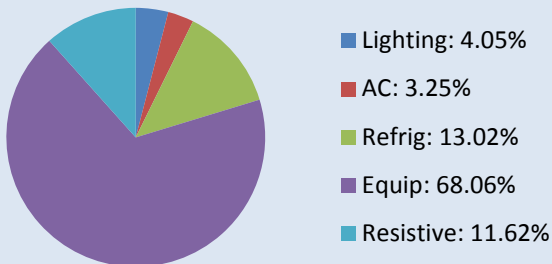
Subject Information

Facility: **Firmenich – Newark, NJ**
 Facility Type: **Manufacturing**
 Facility Size: **833,000 sq. ft.**

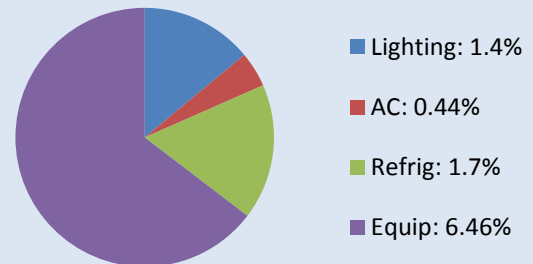
FIRMENICH is ingredient food and fragrance chemical company based in Geneva, Switzerland, with plants located around the world. Firmenich employs over 6,000 people and has annual sales of over 3 billion dollars. Understanding the need to reduce their energy costs, while also increasing their electrical efficiency standards, drove them to undertake an energy efficiency project with Energy Integrated Solutions at their Newark, New Jersey Ingredients facility. It was important for them to do this without any major interruptions to their daily manufacturing operations.

Savings Analysis		
	Projected	Actual
Monthly Savings	10 %	13 %
Payback Period	29.5 months	20.7 months
Technologies Used	Electrical PQ Improvements, Lighting Upgrades	

Cost by Load



Savings by Load



Environmental Benefits

- ✓ 1,648,240 lbs CO₂
- ✓ 614 Barrels of Oil
- ✓ 465 Tons of Coal
- ✓ 12,455 Lbs of SO₂
- ✓ Equivalent to removing 156 Vehicles

Additional Benefits

- ✓ Motors Run Cooler
- ✓ Improved Lighting Quality
- ✓ Standardized Lighting in the Entire Facility
- ✓ No Special Training or Employee Involvement
- ✓ Increased Electrical Capacity

Ed Swaszek, Senior Project Engineer:

"We are all very happy with the results at our Newark, NJ facility. The energy savings is being met and surpassed, and the power quality throughout the distribution system has been improved. We are also quite pleased with the reduced impact of our carbon footprint."