



Trademark Plastics, Inc.

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Founded in 1989, Trademark Plastics, Inc. (TPI) manufactures over 300 plastic medical components for top global device makers. Operating in a 100,000-sq.-ft. facility, TPI has 52 injection molding machines and specialized cleanroom environments.

Key Metrics

Project Cost: \$ 55,360
 PUD Rebate-Riverside (27,680)
 Project Total Investment \$ 27,680

Annual Savings: \$ 90,869

- Payback Period: 18 Weeks
- ROI driven by 78% energy savings and elimination of maintenance costs
- Significant reduction in hazardous waste: Eliminated need for Mercury Vapor bulb disposal
- Reduced HVAC load due to lower heat emissions from LED fixtures

Annual CO2 Reduction: 251 metric tonnes



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**78%
Saved**

CHALLENGE

Trademark Plastics, Inc. (TPI) strives to maintain the highest manufacturing standards, requiring consistent, high-quality lighting throughout its facility. However, the existing fluorescent lighting system was outdated, leading to uneven illumination, frequent maintenance issues, and increased energy costs. Poor lighting conditions affected precision tasks in cleanroom environments and overall workplace efficiency, highlighting the need for a reliable, energy-efficient lighting upgrade.

SOLUTION

1. 32w Fluorescent T8 -> 9w T8 LED Plug 'n Play
2. 32w Fluorescent T8 -> 9w T8 LED Dimmable
3. New BR30 LED Bulbs
4. New LED Wallpacks

BENEFITS

- **Reduce Maintenance Time & Cost:** 20+ years of maintenance-free operation.
- **Improved Light Quality & Enhanced Safety:** Better visibility. Bright, natural light replaced the fluorescent light.
- **Significant Energy Savings:** Lowered utility cost

Energy Use

1

- Annual Energy Use Before: 831,738 kWh
- Annual Energy Use After: 182,252 kWh
 - Annual kWh Savings: 649,485 kWh

Electricity Cost

2

- Annual Electricity Cost Before: \$112,867
- Annual Electricity Cost After: \$ 24,732

Energy Savings

3

- Yearly Energy Savings: \$ 88,135
- Yearly Maintenance Savings: \$ 2,734
- Yearly Savings: \$90,869