

ENERGY EFFICIENCY CASE STUDY SUMMARY:

PROJECT BACKGROUND

CLIENT: TTM Technologies, Inc. Costa Mesa, CA

APPLICATION & DATA COLLECTION PROCESS

- Install KWH/Ambient Temp Data Loggers
- Collect Pre-Coat Data
- Clean and coat condenser coils with **OPTY-COIL COATING® - CLEAR**
- Clean and coat exterior cabinet with KWGuard ThermoCote ceramic coating
- Collect Post-Coat Data

CUSTOMER BENEFITS

- KWH reduction - 15-20%. Immediate and dramatic reduction of HVAC energy costs
- Reduced run-time. Reduces maintenance costs and improves unit life
- Longer useful life. Significant Net Present Value (NPV) of deferred capital replacement dollars
- 50% or better reduced routine maintenance costs (coil cleaning)
- Reduced carbon footprint

TTM TECHNOLOGIES – TTM FINAL ANALYSIS

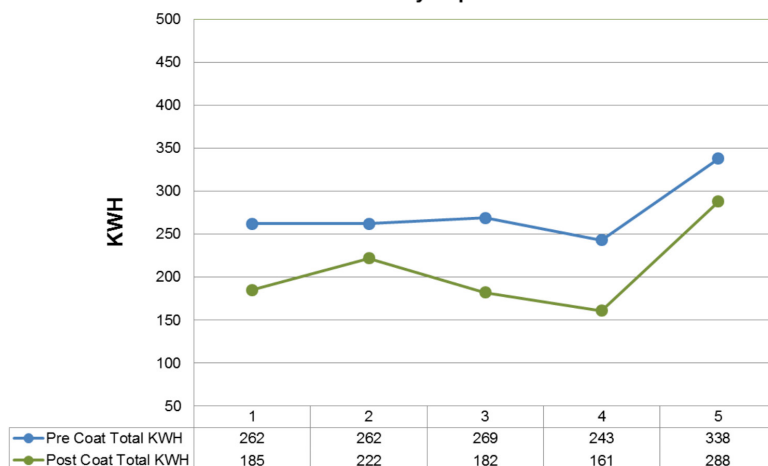
PRE-COAT DATA				POST-COAT DATA				KWH % REDUCTION	AVERAGE KWH % REDUCTION
Date	Avg.Temp	Weather	Total KWH	Date	Avg.Temp	Weather	Total KWH		
03/21	64.3	Sun	262	04/16	66.9	Sun	185	-29.39%	-25.11%
03/24	64.1	Sun	262	04/19	69.3	Sun	222	-15.27%	
03/27	65.1	Sun	269	04/25	66.8	Sun	182	-32.34%	
04/15	66.6	Sun	243	05/09	69.1	Sun	161	-33.74%	
04/08	76.4	Sun	338	05/27	75.0	Sun	288	-14.79%	

RETURN ON INVESTMENT (ROA): 4.2 MONTHS

COMPARATIVE RESULTS

This chart illustrates daily results for the 5-day comparative results in graph format.

Client KWH Efficiency Improvement



CONCLUSION

Utilizing our patent-pending **Dual Process** coating combination reduces energy costs and extends the useful life of the unit by several years.

Our unique coating application provides a totally risk-free opportunity to save energy and serious energy dollars.

