



ENERGY  
PERFORMANCE  
INTERNATIONAL



# Energy Performance International®

- Based in Sacramento, California with operations worldwide.
- EPI's Technology is designed to lower electricity costs of commercial HVAC by 15% or more. Prevents coil corrosion, extends the unit life, greatly reduces annual maintenance and reduces carbon emissions.
- Technology applied to over 20,000 HVAC units since 2008.
- Average ROI is under 24 months.



Your **Green Energy** Partner





# EPI Technology Benefits



## Energy Savings

HVAC Energy Savings of 15% or more.



## Reduced Maintenance Costs

Monthly HVAC cleaning service is reduced to bi-annual service.



## Prevents Corrosion

Saving the tube to fin connection, encapsulating cooling coils prevents corrosion.



## Pre-existing or New HVAC

We service current installed units on-site as well as new units pre-installation.



## Extends HVAC Unit Life

Reducing the run time of the units and preventing corrosion extend the unit life by years.



## Reduce Greenhouse Emissions

Reduced energy consumption save thousands of tons of CO<sub>2</sub> in the atmosphere.



## 10 Year Warranty

Applied once and backed by our 10 year warranty.





# EnergyCor<sup>®</sup>



- Proprietary corrosion resistant coil coating technology forms a covalent (molecular) bond with the coil and copper tubing.
- This re-tightens the tube to fin connection returning the HVAC unit to within 95% of original factory specs.
- Effective in preventing pitting in micro-channel coils and prevents galvanic corrosion.
- Our coating is inorganic and does not support the growth of mold, mildew or bacteria and prevents the effects of corrosion.
- It reduces your energy bill and kilowatt hour usage, and is a “one-time” application that will last the life of the HVAC system.



Innovation



Process

Eff

ent



# CryoCoat XT<sup>®</sup>



- Our Energy Star Rated CryoCoat XT<sup>®</sup> is applied to the exterior metal cabinet of your HVAC.
- Blocks 95% of the sun's thermal heat, reducing the exterior temperature to within 5°F of the outside ambient air temperature.
- Produces dramatic reductions in your unit run-time, especially during peak demand hours.
- Extends HVAC life by reducing maintenance and repairs.
- Reduces kilowatt per hour (kWh) consumption, resulting in lower utility bills.
- Green energy savings solution that reduces your company's carbon footprint.

Analysis

Management



Partner



**EcorClean®**

**EcorEtch®**

- Proprietary cleaner used to remove built-up dirt and corrosive elements.
- Engineered to clean and protect the internal components of the HVAC system.
- Environmentally safe and non-toxic.
- Proprietary etching technology.
- Applied after cleaning to ensure proper covalent bond of the cooling coils.
- Environmentally safe and non-toxic.



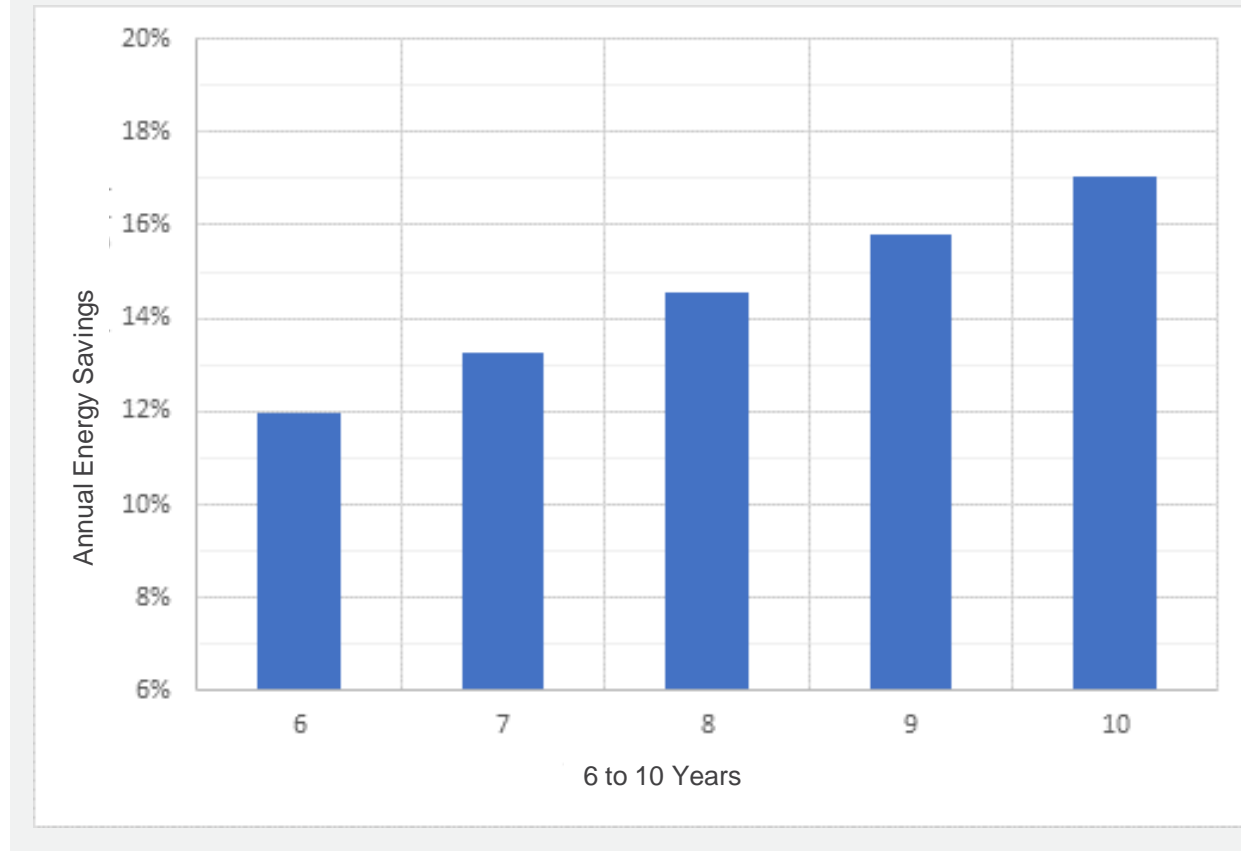
# CES Independent Test Results

1 CES's modeling showed a 17% reduction in annual energy savings on a standard RTU that was 10 years old using EPI's dual coatings.

2 EnergyCor® prevents the galvanic corrosion on aluminum tubing and copper connections as well as pinhole pitting on microchannel condenser coils.

3 CES's modeling showed energy savings were achieved from both heating and cooling HVAC testing.

4 CES modeling results state that cooling and heating energy savings will steadily increase as the HVAC units increase in age.





# EPI Energy Saving Results

California Department of Transportation



Pre-Coat Data					Post-Coat Data					KWH % Reduction	Average KWH % Reduction
Date	Day of Week	Roof Temp	Sky Cond. Clouds	Total KWH	Date	Day of Week	Roof Temp	Sky Cond. Clouds	Total KWH		
6/20	Mon	95.3	Clear	36.2	8/19	Friday	93.4	Clear	26.5	26.80%	24.47%
6/23	Thurs	88.7	Clear	29.1	8/23	Tues	88.4	Haze/Clear	22	24.40%	
6/27	Mon	92.1	Clear	31.7	8/24	Wed	92.8	Clear	25.0	21.14%	
6/28	Tues	89.6	Haze/Clear	30	7/14	Thurs	90.6	Scat/Clear	26	13.33%	
6/29	Wed	94.4	Clear	32.9	7/13	Wed	93.8	Clear	28.9	12.16%	



Bergen County Municipal New Jersey



Pre-Coat Data					Post-Coat Data					KWH % Reduction	Average KWH % Reduction
Date	Day of Week	Roof Temp	Sky Cond. Clouds	Total KWH	Date	Day of Week	Roof Temp	Sky Cond. Clouds	Total KWH		
7/22	Sun	85.2	Clear	150.6	8/23	Sun	84.9	Clear	115	23.64%	26.99%
7/25	Wed	83.5	Clear	187.9	8/21	Tues	83.3	Clear/Part	113.7	39.49%	
7/5	Thurs	94.6	Clear	222	8/18	Sat	94.2	Clear	195.5	11.94%	
7/29	Sun	90.5	Clear	87.7	9/15	Sat	90.3	Clear	58.3	33.52%	
7/23	Mon	85.2	Clear	191.4	8/23	Thurs	84.9	Clear	115	39.92%	
7/16	Mon	100.2	Clear	221.1	9/4	Tues	100.0	Clear	191.4	13.43%	



# EPI Corrosion Protection



- Space and Naval Warfare Command is in a highly corrosive area in San Diego, CA.
- Previously other utilized corrosion protection coatings resulted in extremely poor results.
- Brand new coils coated by Luvata or Thermoguard were corroded after 1 year of service.
- SPAWARS then turned to EPI Technology on their new chiller coils.
- EPI coated new coils with EnergyCor® and there are no signs of corrosion after 25 months. (April 2019)

Luvato & Thermoguard



EPI EnergyCorTechnology



# Your Green Energy Partner

## Environmental Sustainability Impact

- “EPI Technology is 4X more cost effective in reducing carbon emissions than solar.” \*
- Average companies HVAC use is 50% of total energy bill.
- Reducing consumption by 15% or more can not only save money but result in the following CO2 reductions...



Example 1,000,000 kWh saved annually.  
\*Source GSE Solutions Independent Lab



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