

# Environmental Benefit

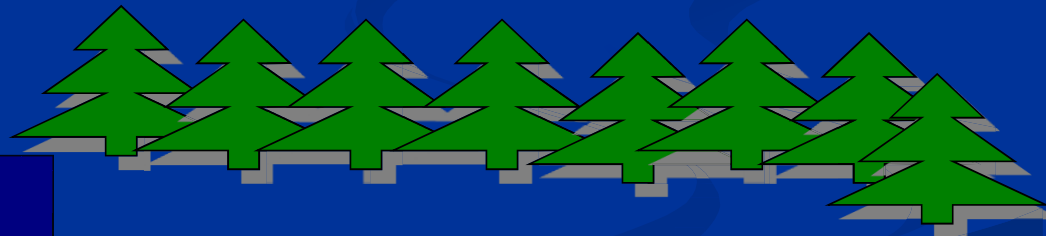
**Can a 5 Ton Evaporative Condenser A/C (15 EER) save enough power plant pollution to be like taking a car off the road for a year?**

**\*Based on EPA/ EIA Standards  
Freus displaces the pollution of:**



**13 Cars!**

**Or like adding 18.5 acres of Forest!**



**We can make a real difference for our environment!**

**\*Based on EPA/ EIA standards for 5 Ton in Las Vegas**

| Carbon Dioxide Emissions Factors                             |                                  | Source   |
|--|----------------------------------|----------|
| Electricity Carbon Emission Factor                           | 1.6 lbs CO <sub>2</sub> /kWh     | EPA 2006 |
| <b>CO<sub>2</sub> Equivalents</b>                            |                                  |          |
| Annual CO <sub>2</sub> sequestration per forested acre       | 8,066 lbs CO <sub>2</sub> /year  | EIA 2006 |
| Annual CO <sub>2</sub> emissions for "average" passenger car | 11,470 lbs CO <sub>2</sub> /year | EIA 2006 |

**CUWCC** (consortium of

350 California Water Utilities),

**Endorsed Evaporative  
Condenser Water  
Savings!**

December 18, 2006

Mr. Rocky Bacchus  
Freus Air Conditioning  
8240 Doniphan Drive  
Vinton, Texas 79821

Subject: Evaporatively-Cooled Condensing Units

Dear Mr. Bacchus:

During 2006, the California Urban Water Conservation Council reviewed the proposed revisions to Title 24 compliance requirements for evaporative condensers proposed by the California Energy Commission (CEC) and made suggestions for changes to CEC staff to address the water consumption issue. As a result of our discussions, the CEC agreed to revise the requirements to set a maximum consumption limit of 5 gallons of water per ton-hour.

During that process, we also committed to work with you toward the goal of conserving more water in evaporative condenser applications. As part of that cooperative effort, we are pleased to join with you to endorse a water consumption limit of 2.5 gal/ton-hour for evaporative condensers to be recognized as part of local water conservation programs. This is double the water efficiency of the CEC's 5 gal/ton-hour limit. While the Council does not endorse individual products, we are pleased to endorse the practice for local water authorities to set a 2.5 gal/ton-hour water consumption limit as a requirement for evaporative condensers to be included as a positive measure in a water conservation program. This is a good step toward the process of making the 2.5 gal/ton-hour limit an eventual statewide code requirement.

We appreciate your water conservation efforts and understanding of our concerns.

Sincerely,



Mary Ann Dickinson  
Executive Director



455 Capitol Mall  
Suite 703  
Sacramento  
California 95814

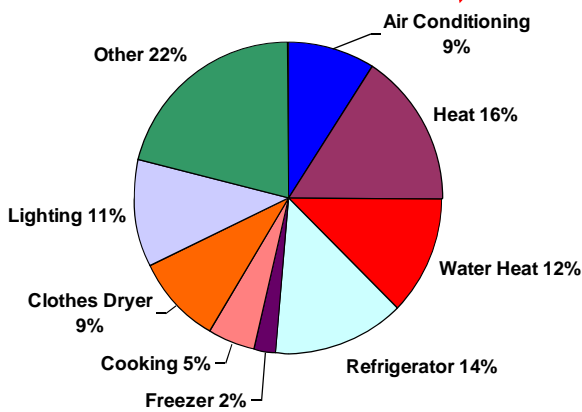
PHONE  
916/552-5885  
FAX  
916/552-5877

[www.cuwcc.org](http://www.cuwcc.org)

# Utility Need – Reduce A/C Capacity Problem!

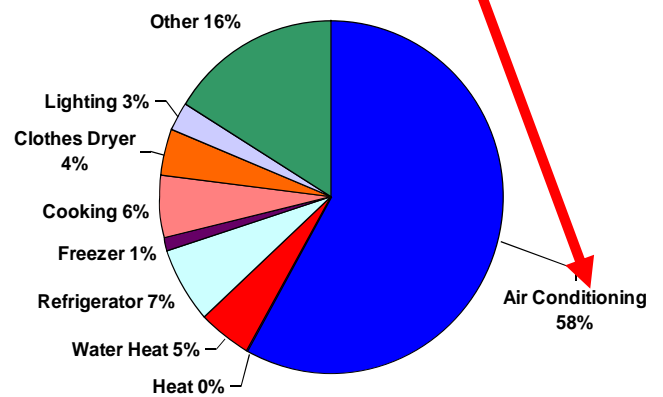
## A/C Just 9% of Revenue

Estimated Residential Energy End Use



## A/C 58% of Required Capacity!

Estimated Residential Peak Demand



California – SMUD - Residential Electric Profile

Utility needs double capacity in summer

Air Conditioning causes the Need

Good Business practice to Pay Big Incentives that reduce the Peak A/C load