

Across the United States, building owners in both hot AND cool climates are subject to demand charges. These charges can range from 30-70% of a total commercial user's

electric bill - that percentage is significantly higher during the summertime as a result of

cooling demands.

occur in the peak periods.

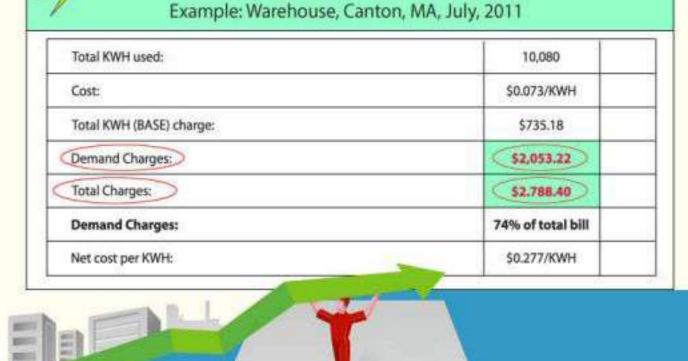
50% or More

of the total potential savings by reducing electrical demand

DEMAND CHARGES The following example breaks down the demand energy charge and its impact at a Warehouse located in the Boston, MA area.

IMPACT OF PEAK ENERGY

DEMAND CHARGES OFTEN DWARF BASE CHARGES



BASE USE

Speed at Point in Time = Peak Demand (kw)

PEAK DEMAND

time within the billing. period. Typically, peak demand charges are based on the

Peak demand measures the highest amount of power supplied at any one

Think of it in terms of a road trip in a car: The base use (kWh) is the total miles traveled, while the peak demand (kW) is the top speed traveled.

amount of energy

consumed in a specific

period of time, known as

the demand interval.

Base rate measures

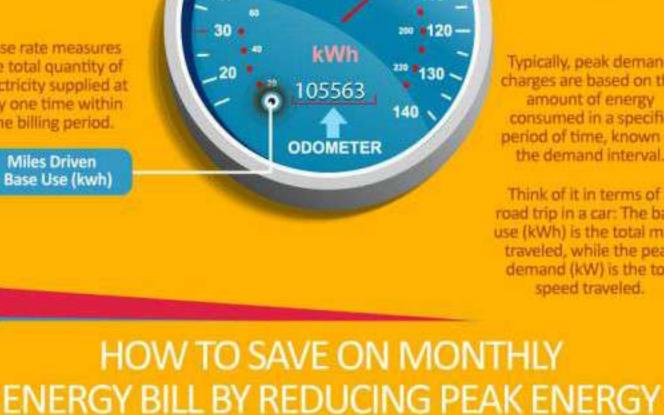
the total quantity of

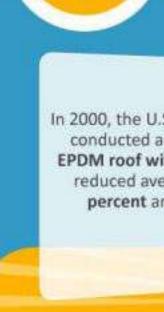
electricity supplied at

any one time within

the billing period.

Miles Driven = Base Use (kwh)

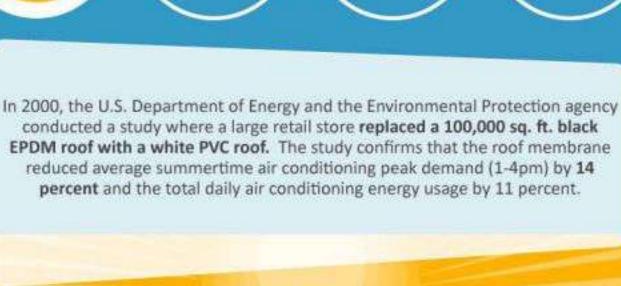




REDUCE

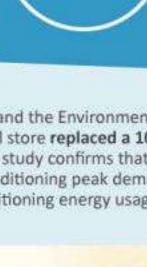
PEAK ENERGY

DEMAND



Lighting

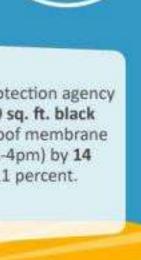
Improvements



Supplemental

daylight and

solar

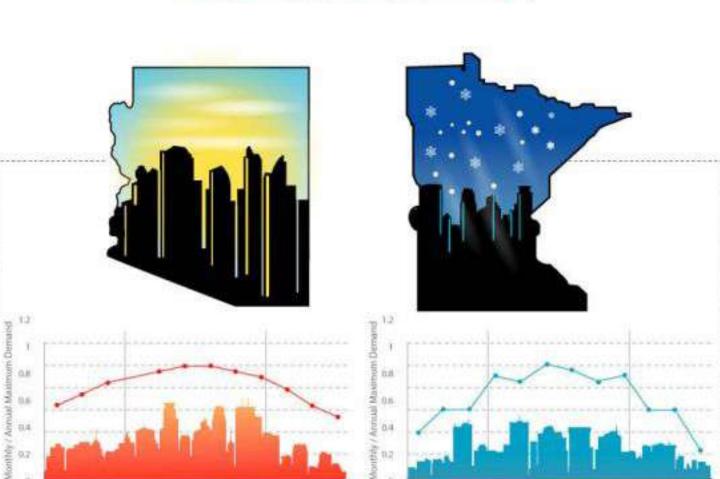


Equipment

improvements

A recent study suggests that hotter cities like Phoenix and colder cities like Minneapolis are similar when it comes to potential roof-related peak demand savings.

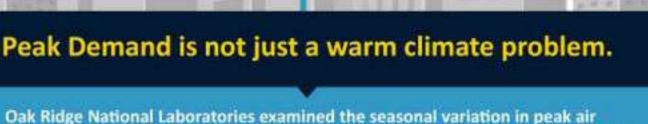
Peak Cooling Season (6 Months +/-)



(Source: Oak Ridge National Laboratories)

AUG SEP. OCT. NOV.

Phoenix



JAN FEE MAR APE

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Minneapolis

findings suggest that even though base cooling demand may be higher in hot climates compared to cooler climates, the ratio of monthly peak demand to annual peak demand is very similar across all climates.

Sarnat

conditioning demand for a variety of different climates across North America. Their

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