



# ***Power Planet*** ***Energy Management Systems***

Controlling the high cost of electricity  
through Demand Control


It's not how much electricity you use,  
but how you use it.

Reduce Your Electric Bill by 10 - 40 %.

Are you paying more for the way that you use electricity than for the *amount* that you actually use? Do your demand related charges add up to more than 30% of you monthly electric bill?

*Demand Charges* are based on the peak electrical load (KW) reached during the month. Your utility calculates this charge by multiplying the peak by an elevated factor of up to \$31 per KW. During summer months Demand Charges can eclipse your actual energy usage (KWh). Commercial customers in GS-2 and GS-3 rate schedules pay for demand charges (rate-of-use) in addition to their energy charges.

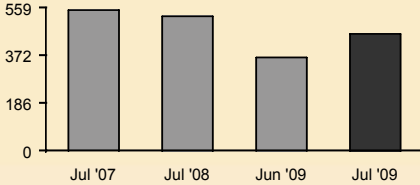
High levels of demand are caused by multiple air conditioners turning on simultaneously. Energy savings and efficiency programs do not address the problem of high demand charges. The best way to reduce demand charges is by *time-shifting* electrical loads through demand control to balance usage.



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**Your daily average electricity usage (kWh)**



Usage comparison	Jul '07	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Jan '09	Feb '09	Mar '09	Apr '09	May '09	Jun '09	Jul '09
Total kWh used	16,200	16,000	16,360	13,680	13,880	11,640	9,880	10,720	9,440	10,680	10,480	10,320	12,200	13,480
Number of days	29	30	32	30	33	30	32	30	29	32	30	29	33	29
Appx. average kWh used/day	558	533	511	456	420	388	308	357	325	333	349	355	369	464

**Details of your new charges**  
 Your rate: GS-2  
 Billing period: Jul 7 '09 to Aug 5 '09 (29 days)

Delivery charges		
Facilities rel demand	41 kW x \$11.46000	\$469.86
Energy summer	13,480 kWh x \$0.00755	\$101.77
DWR bond charge	13,480 kWh x \$0.00491	\$66.19
Customer charge		\$107.18
Generation charges		
<i>DWR</i>		
Energy summer	3,593 kWh x \$0.06225	\$223.66
<i>SCE</i>		
Summer time related	41 kW x \$18.58000	\$761.78
Energy summer	9,887 kWh x \$0.07128	\$704.75
Subtotal of your new charges		\$2,435.19
State tax	13,480 kWh x \$0.00022	\$2.97
<b>Your new charges</b>		<b>\$2,438.16</b>

Does Your Bill Look Like This?

Demand Charges

- \$75.84 transmission charges
- \$511.45 distribution charges
- \$7.95 nuclear decommissioning charges
- \$64.03 public purpose programs charge
- \$16.31 new system generation charge

**Your Delivery charges include:**

- \$81.69 competition transition charge

**Your Generation charges include:**

**Your overall energy charges include:**

- \$22.06 franchise fees

**Additional information:**

- DWR provided 26.656% of the energy you used this month
- Service voltage: 208 volts

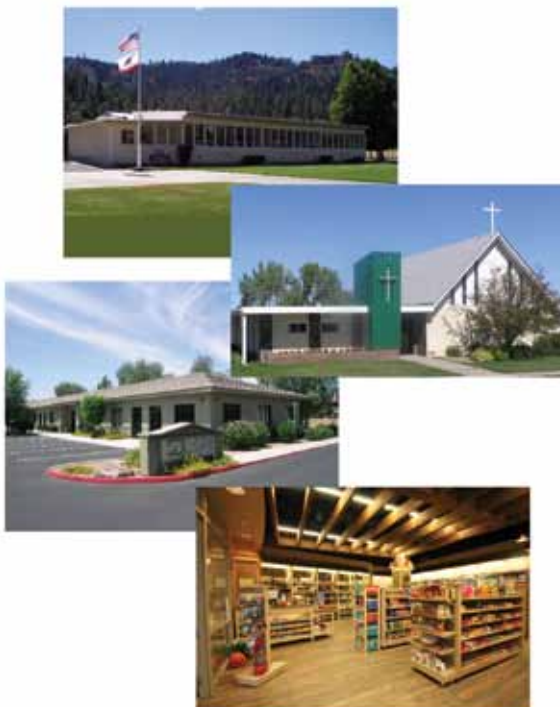
## What is Electrical Demand Control?

Power Planet controls electrical demand with the Energy Sentry® Demand Controller. With the use of a microprocessor the system controls the peak loads (KW) of electricity measured by the electrical meter. The controller sends coded signals over the existing building wiring to remote control points effectively *time-shifting* large appliances to minimize demand charges. Appliances such as air conditioning, water heaters, and other large thermal loads are controlled to balance the peak recorded by the electrical meter.



## Benefits

- Typical savings of 10-40%.
- Reduces peak demand charges while maintaining occupant comfort.
- Fully automatic intelligent load balancing, no user input required.
- Internet accessible real time monitoring, data logging, and load profiling (optional).
- Works over the existing building electrical wiring.
- Does not disrupt critical processes.
- Immediate savings, fast return on investment, and year after year savings.
- Time of use scheduling compliant.
- Custom solutions for your unique facility.



- Retail Food Service
- Convenience Stores
- Liquor Stores
- Religious Facilities
- Municipal Facilities
- Office buildings
- Schools
- Manufacturing Facilities



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## **What other satisfied customers have to say about Energy Sentry® demand controllers.**

It appears the preliminary numbers, after just 2 months of operation, showed that the demand charges were reduced by 22kw in June and 44kw in July - equating to a total savings of roughly \$1450 for the two month period, despite a price increase. At this rate we are well on our way to saving \$5000 to \$ 7500...

*Placentia Presbyterian Church, Placentia, CA*

We had one event at the church where all of the lights inside & out were on, the kitchen equipment, and it was 90 degrees outside. All of the AC units ran, but the controller made them take turns, and we had no complaints. With no controller, we definitely would have been over the 20 KW limit.

*Simi Valley Church, Simi Valley, CA*

In the month of February we saved \$857.90 in electrical costs. At this rate, the initial one year payback will be blown away and we hope to have the unit paid for by July...

*McDonalds Francise, Brighton, CO*

While the utility has not been directly involved in the purchase and servicing of this equipment, we have had numerous conversations with customers who have purchased and used the equipment. The feedback that we have received is that customers have been satisfied with the quality and performance...

*Fort Collins Light and Power, Fort Collins, CO*

The demand controller which you installed is doing a magnificent job: our utility bills have literally been cut in half and we have not had to sacrifice comfort or operations. It has taken us less than half a year to recoup the costs of the installation.

*St. Nicholas Church, Fort Collins, CO*