

# Don't Let Your Pool Drain Your Wallet

Learn How to Reduce Your Pool Pump Electricity Use by 70%

Did you know that the largest energy user in your home is probably your pool pump?

	Est. Annual Usage
Clothes Washer	110 kWh
Central A/C	493 kWh
Dryer	587 kWh
Television	620 kWh
Refrigerator	725 kWh
Freezer	898 kWh
Water Heater	2,149 kWh
<b>Pool Filter Pump</b>	<b>3,794 kWh</b>

Source: 2010 CEC CA Residential Appliance Saturation Survey

By converting to an energy efficient variable speed pool pump you can **reduce the energy usage of your pool pump by 70%** and your **total energy usage by up to 30%!**



*"It looks like the 70% reduction in our pool pump electricity usage is actually coming in right around the \$60/month that CleanTECH San Diego and Payan Pools estimated before we did the retrofit."*

– Jeff & Gail Bush, Santee homeowners  
Mesa Heights Neighborhood

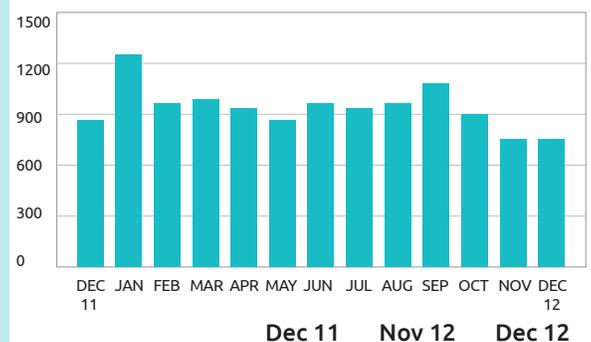
## CURRENT POOL SYSTEM VS. NEW POOL SYSTEM

	Current	New	
<b>Pump Info</b>			
Manufacturer	Pentair	Pentair	
Model	Whisperflo	IntelliFlo® VS-3050 Variable Speed	
Type	Single Speed	Variable Speed	
		<b>Filter Speed</b>	<b>Clean Speed</b>
HP/Speed	2 HP	1400 RPM	2400 RPM
Watts	2140 W	220 W	970 W
Flow	112 GPM	68 GPM	110 GPM
Hours Per Day	6 Hours	6 Hours	2 Hours
Turns Per Day			2.62 Turns
		(1.62 Turns Above Target)	
<b>Current Monthly Electricity Use</b>		<b>New Monthly Electricity Use</b>	
Pool Pump	390 kWh	99 kWh	
<b>Current Electrical Costs</b>		<b>New Electrical Costs</b>	
<b>Monthly Cost</b>	<b>\$89.78</b>	<b>\$22.79</b>	
<b>Annual Cost</b>	<b>\$1,077.92</b>	<b>\$273.68</b>	

Energy Audit and Installation completed by Payan Pool Service, Santee, CA

The Bush family was paying high monthly energy bills, but by replacing their pool pump with a variable speed model, they are able to save \$67 a month or \$804 a year while improving the water quality of their pool.

## ELECTRIC USAGE HISTORY (Total kWh used)



	Dec 11	Nov 12	Dec 12
Total kWh used	863	671	661
Daily Avg. kWh	28.8	23.1	20.0
Days in billing cycle	30	29	33

**Change in daily average from last month -13.4%**

**Change in daily average from last year -30.6%**

Jeff and Gail Bush built their pool in 1999. Since that time, Jeff has been in the pool to swim laps at least once a month for 158 consecutive months, along with paying those hefty monthly electric bills that come along with pool ownership.

After speaking with a trained and licensed pool service contractor, Jeff learned that he could upgrade their 2-horsepower single speed pool pump to a variable speed pump that runs a longer total cycle time but at significantly lower power. The Bush's first two electricity bills since installing the new pool pump have averaged about \$65 a month below their previous level and they are delighted not only with the lower energy bills, but also the quieter operation of the variable speed pump. The new pump's programmable timer has also been set so that the cleaning cycle never runs between the peak demand hours of 11:00 a.m. and 6:00 p.m.



- *Bush's save over \$800 a year in electricity*
- *Pump pays for itself in less than 2 years*
- *The Bush's would pay >\$4,000 more over next 5 years if they didn't upgrade their pool pump*

## RETURN ON INVESTMENT



The Bush's and their contractor took advantage of SDG&E's \$200 rebate which resulted in a net installation cost of \$1500 -- and with the energy savings the new system provides, it will pay for itself in just 22 months. The Bush's justified this initial \$1,500 investment when their pool contractor shared with them the chart above which shows that if they didn't do the upgrade they would have to spend more than \$4,000.00 in higher electric bills over the next 5 years.

If you currently have a pool with a single speed filter pump, contact a C-53 or C-61 certified pool contractor that can make this upgrade, so that you too can start saving. **You can confirm their Active Contractor's License at [www.cslb.ca.gov](http://www.cslb.ca.gov) on the left side "check a License or HIS Registration" tab.**



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