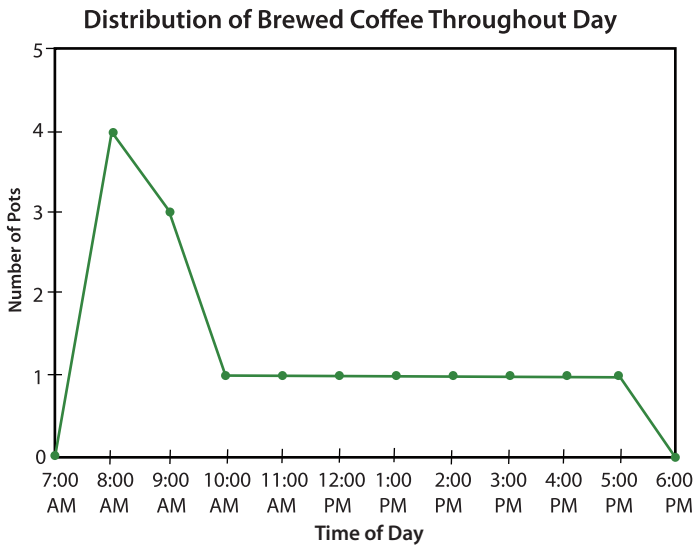
Newco Enterprises, Inc - Energy Facts Sheet

Results of independent testing done by Pacific Gas and Electric's Food Technology Center

Models Tested: Newco Ace Intelli Brew Series. Specific models tested were the IA-LP, a low profile 3 warmer unit, and the IA-TD, a thermal dispenser unit.

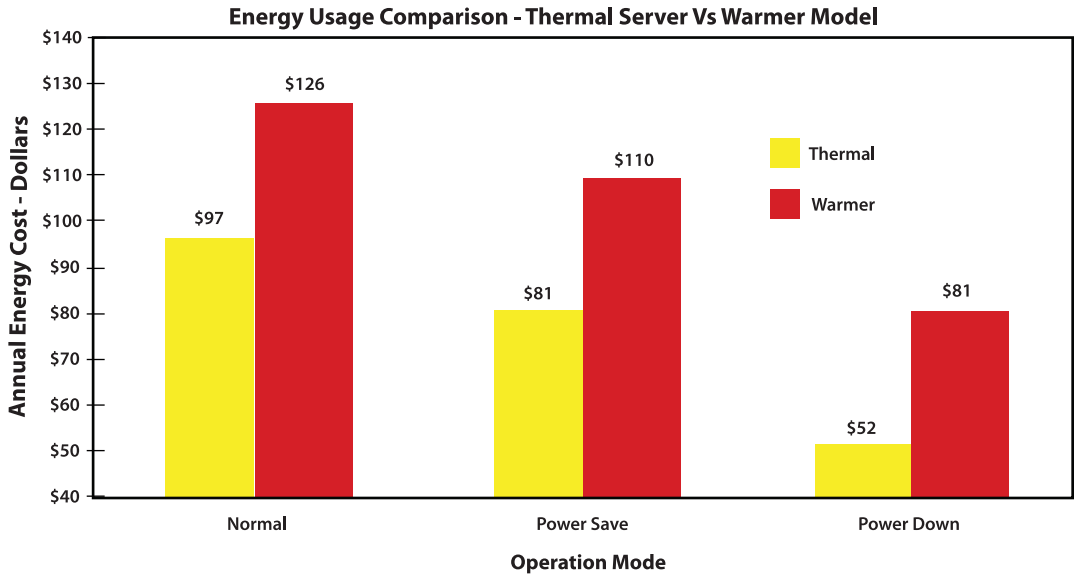
Test Conditions: The brewers were run under conditions to simulate activity at a medium sized office account based on a 5 day workweek. The workday was considered to be 11 hours long, running from 7 AM until 6 PM with a total of 15 pots of coffee brewed during the entire day. The chart below illustrates the distribution of the brewed coffee throughout the day.



Annual Energy Usage and Cost to Operate Comparitive Data

	IA-TD, Dispenser Model		
Operation Mode	Normal	Power Save	Power Down
Annual kWh	1380	1154	740
kWh Savings		226	640
Annual Cost	$97	$81	$52
Cost Savings		$16	$45
Percentage Savings		16.5%	46.4%
	IA-LP, 3 Station Warmer Model		
Annual kWh	1796	1570	1156
kWh Savings		226	640
Annual Cost	$126	$110	$81
Cost Savings		$16	$45
Percentage Savings		12.7%	35.7%

As shown above, a substantial percentage of savings in energy is obtainable by using either the power down or the power save operating mode when compared with the traditional (Normal Mode) method in which a brewer functions. It has been shown through testing that for the typical office account, as modeled above, the energy savings realized would be 46% for a thermal model (unit without warmers) in the power down mode. For a 3 station warmer model in the same mode the savings are 36%. These savings would be greater for an account with less activity as the power set back features of the units would be in effect for a bigger portion of the work week. The chart below graphically compares the energy use for both thermal and warmer models in each operating mode.



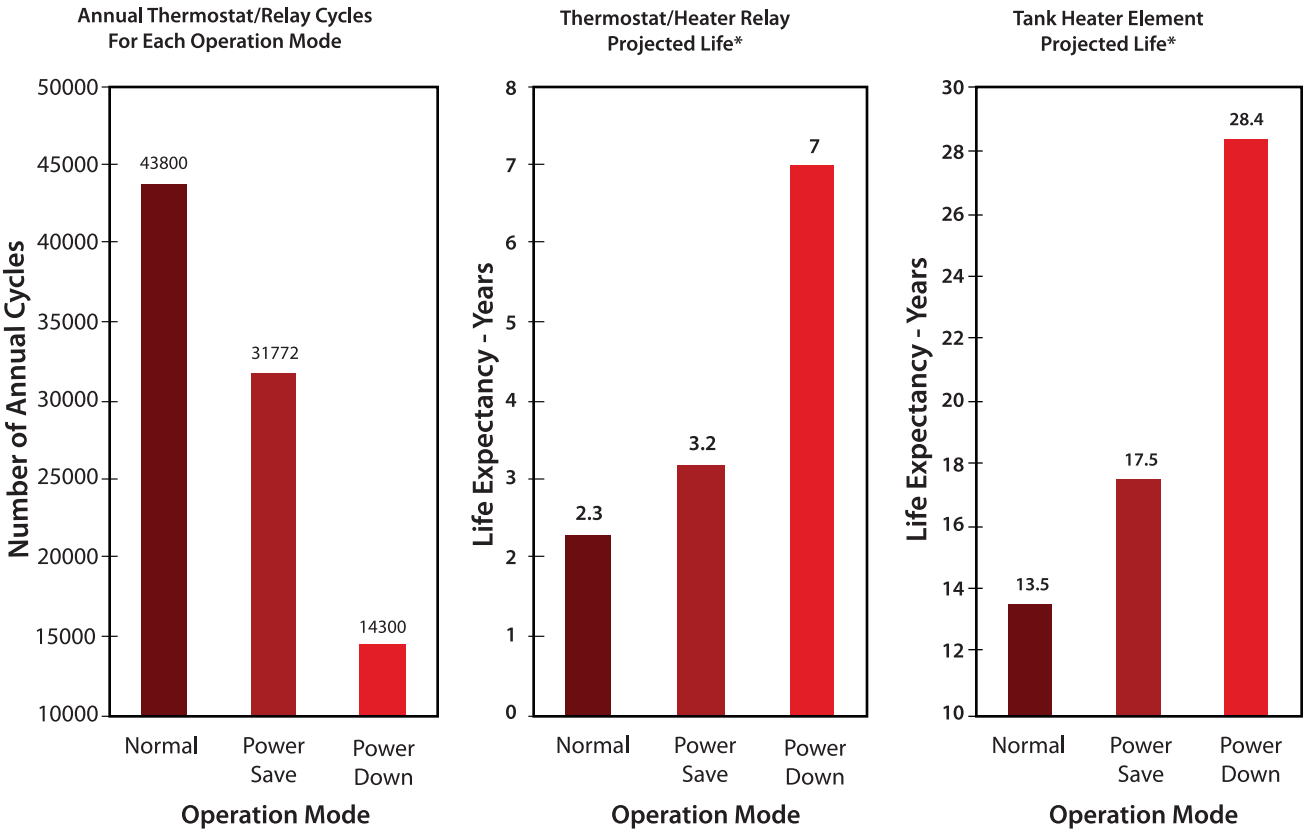
Component Life/Cycles

The table to the right lists the typical life expectancies for various components used in the Intelli Brew coffee brewers. These components are typically rated by the manufacturers in either the number of switching cycles (On-off) or in number of hours of use. The left most chart below illustrates the number of On-Off cycles the components can be expected to go through annually in each operational mode of the brewer, based on the independent test results. The two charts on the right illustrate the projected life expectancy in years for the thermostat and heater relay as well as for the tank element.

Component Life Table

Component	Typical Life*
Regulating Thermostat	100,000 cycles
Limit Thermostat	6,000 cycles
Tank Heater	6,000 hours
Warmer Elements	6,000 hours
Switches	100,000 cycles

*component life as rated by component manufacturer. Actual life is subject to conditions in application and may be more or less than that shown.



As the test results pictured in the charts above indicate, a dramatic decrease in the number of operating cycles of the components which make up the tank heater system can be realized by simply setting the brewer operation mode to either the power save or power down positions. This reduction in number of cycles and reduction on time of the tank heater yields a correspondingly large increase in component life.

Intelli Brew Series

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