

Office of Legal Affairs

2222 Piedmont Avenue
Berkeley, CA 94704



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myPower Associates:

Lisa McNeilly, lmcneilly@berkeley.edu

Amy Fudenberg, amyfudenberg@berkeley.edu

Matthew Kozuch, mkozuch@berkeley.edu

Christina Lew, lew_christina@berkeley.edu

Building Information

2222 Piedmont was constructed in 1908 and purchased by the university in 1941. It is currently being used by the Office of Legal Affairs with about 8 employees working in the building and used year round from 8-5. An energy survey has been previously conducted in this building in 2013 and many concerns have been addressed. Staff have been enthusiastic and active in energy conserving practices. Much effort has been made to improve energy usage since the last myPower energy survey. The issue of the gas smell coming from the heating system has been resolved.

Observations

Lighting

An abundance of natural light is available from many large windows and used often. Only a few rooms are too dim where there is no natural light, including an office where overhead lighting is required at all times. This office room also has a light fixture that is connected to an adjacent room

so that both lights must be turned on at the same time. Consider delamping one room rather than rewiring, in addition to installing personal LED task lights.

There was also interest in energy efficient floor lamps as alternative lighting, and myPower recommends Energy Star floor lamps with LED or CFL bulbs. For brighter overall light, choose uplit lamps and place them in corners so the reflection off the walls can provide more light. Task floor lamps could also be used as the main lighting system or as an addition if more illumination is needed at the workspace. Consider using 3-way lamps to keep lighting levels low when brighter light isn't necessary. A few models are recommended below.

Lights were mostly turned off in unoccupied rooms, and a few hallway and office lights could be turned off when not in use. Many rooms already had task lights installed and are utilized often. Most of the light fixtures were already installed with fluorescent and LED lights, and a few incandescent lights can still be replaced. Many light switches had stickers already and a few more were placed. Overlighting does not appear to be a problem.

Water conservation reminder posters were given out to be placed in bathrooms and kitchenette. Bathrooms also had energy-saving flushing options.

Recommendations

- ☐ Contact the Energy Office or Facilities Services for assistance with delamping.
- ☐ For overall lighting, consider a floor lamp model such as this one: http://www.lampsplus.com/products/gen-2-l-tower-metallic-black-daylight-led-floor-lamp_k9444.html
- ☐ For task lighting, consider a model like this one: <http://homedepot.com/p/CAL-Lighting-70-in-White-Metal-Torchiere-with-glass-shade-BO-213-WH/203158768?N=5yc1vZc7noZ1z0tizw>
- ☐ Consider purchasing task lamps as a substitute to overhead lighting; ensure that task lamps are equipped with LED or compact fluorescent bulbs.
- ☐ Consider installing motion sensors for lighting in hallways and rooms that are not used often.

Thermal Comfort

Staff considered the building generally comfortable to work in. There were concerns about drafts in some office rooms, and staff already plan on replacing some of the windows. After the renovation, myPower recommends installing spaced

double panes and double glazing which would provide additional insulation. During warm days, windows are not opened sometimes because of external noise levels.

Recommendations

- ☐ Dress for appropriate temperature.
- ☐ Unplug space heaters and fans when not in use.

Computers/Printers

There are currently 3-4 printers and a single central copy machine shared by staff. Printers could be consolidated into a central printer in order to save energy. Ensure that printers and copy machines are unplugged during long periods of inactivity (at night, on weekends, and over Winter curtailment and other breaks). Also consider enabling power management savings so copy machines and printers can activate energy-saving settings when not in use. Installing low-power, digital timers to turn off equipment during non-business hours could be a stress-free way of ensuring energy efficiency.

Some of the computers not in use had enabled screen savers. Consider eliminating screensaver use, because this can use more energy than turning off the computer as this prevents computers from going into sleep mode. Turning computer screens away from glare of windows will allow brightness to be reduced, which also leads to energy savings.

Recommendations

- ☐ Avoid screensavers
- ☐ Use proper energy saving modes (i.e., sleep) when equipment is temporarily not in use.
- ☐ Turn off monitors when not in use for more than 15 minutes.
- ☐ Clean vents & fans regularly
- ☐ Effective use of power strips by turning off when not in use
- ☐ Reduce brightness and increase contrast on computer monitors

Kitchenette

Two small refrigerators are being used. They are defrosted regularly and have no items on top, which are great energy saving practices. The microwave has a power strip that was turned off at the time of the survey. myPower recommends informing all staff of the importance of unplugging appliances and turning off power strips when not in use.

Recommendations

- ☐ Clean coils & fans regularly
- ☐ Keep staff well-informed about unplugging appliances after use, or putting them on a power strip and turning off the entire strip when done.
- ☐ Continue defrosting freezer regularly.
- ☐ Place reminder stickers conspicuously to remind occupants to unplug appliances when not in use.
- ☐ Consider Energy Star and other energy saving technology when purchasing new appliances.

Further Resources

- ☐ Keep stocked with stickers to prompt energy conservation. Visit the myPower Resource Center in 192 Barrows.
- ☐ Become a Power Agent: bit.ly/PowerAgents
- ☐ Physical Plant Campus Services (PPCS) (510) 642-1032
- ☐ myPower office tips available at: mypower.berkeley.edu/takeaction/office.html
- ☐ Get rid of old or underutilized electronics at Berkeley Overstock and Surplus: businessservices.berkeley.edu/overstock