

Osaka University Summer Energy Saving Plan 2014

1. Overview

The Government of Japan and Kansai Electric Power Co., Inc. have forecast the need for a minimum electricity reserve (at 3% or above) to ensure constant electricity delivery this summer, so general energy conservation is requested with no specific target. However, customers are urged to continue to be mindful of conserving energy.

Further, the Ministry of Education, Culture, Sports, Science and Technology (MEXT) is stating that “while institutions should proactively deal with energy conservation, they should do so without unduly influencing education, research and related activities. Regardless, a concrete target has not been set.”

In addition to the issues surrounding energy consumption, electricity costs have become a serious issue starting last year and reducing electricity expenditures has become a salient administrative concern at Osaka University.

With this in mind, Osaka University is adopting this *Summer Energy Saving Plan 2014*, effective for all campuses.

2. Duration

1 July 2014 – 30 September 2014

3. Targets

1) Reduce electricity use

Reduce electricity use by 5% compared to the same period in 2013

*Due to electricity price increases, there will be a predicted ¥830 million increase in price at Osaka University compared to last year; we must decrease electricity usage by 23% to maintain the same price as last year.

2) Reduce peak electricity use

Reliable energy conservation efforts will be needed in order to meet the government’s predicted necessity of energy saving (an 8.5% decrease compared to 2010).

*Decreasing peak usage will result in decreasing future energy contracts and costs.

3) Decrease gas use

In order to conserve energy overall, a specific target will not be set but overall reduction efforts are required.

(Note: This plan does not apply to University Hospitals; medical office workers, etc. are asked to participate in energy reduction within the bounds of practicality.)

4. Detailed energy saving policy

Detailed energy saving policy can be found on the attached page entitled *Summer Energy Saving Plan 2014 Levels*. This plan has been enacted based on the participation of each department since last year in Level 0, which is applicable all year round, as well as in Level 1, which is only applicable during the duration of the plan. Level 2 and Level 3 apply in instances when an impending power supply-demand crisis warning is received from Ministry of Economy, Trade and Industry.

The results from these and other practical departmental efforts (starting last year and including the summer and winter) will be made available for confirmation via an online Electricity Consumption Visualization System.

Along with faculty and staff, students will also be made aware of these results using online services such as KOAN, as energy saving relates to and is encouraged in education, experimental work, club activities, and everyday life.

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Summer Energy Saving Plan 2014 Levels

Levels	Actions
Level 0 (effective year-round)	<p>Air conditioning, lighting, and other facilities in campus buildings</p> <ul style="list-style-type: none"> • Limit the use of unnecessary lighting in offices and research laboratories • Limit the use of hall lighting • Keep lights off during the lunch hour • Put “Remember to turn off the lights” stickers by light switches • Avoid the use of air towels • Set vending machines to energy-saving mode • Turn off lights and air conditioners in empty lecture halls and other unused rooms • Lock lecture halls and other rooms that will not be used for a prolonged period of time • Restrict the standby power consumption of office equipment and other appliances <ul style="list-style-type: none"> • Set computers to energy-saving mode • Turn off computer monitors when not in use • Turn off the main power to all computers, printers, office equipment, TVs, and other devices at closing time • Turn off hot water dispensers that are not being used <p>Work habits</p> <ul style="list-style-type: none"> • Encourage people to use the stairs (taking individual health conditions into account) • Put up informative posters on saving electricity <p>Education and Research Activities</p> <ul style="list-style-type: none"> • Consolidate and optimize laboratory-use refrigerators and other appliances • Turn off unused laboratory equipment and other appliances, wherever possible • Review usage of always-on equipment
Level 1	<p>Air conditioning, lighting, and other facilities in campus buildings</p> <ul style="list-style-type: none"> • Set the (electric and gas-powered) air conditioner cooling temperature to 28°C • Clean air conditioner filters • Proactively use blinds, screens, reed blinds, electric fans and other similar items • Limit the use of heated toilet seats <p>Work habits</p> <ul style="list-style-type: none"> • Encourage people to wear light clothing during summer time • Proactively take concurrent summer holidays
Level 2	<p>Air conditioning, lighting, and other facilities in campus buildings</p> <ul style="list-style-type: none"> • Turn off all electric air conditioners outside of office hours (taking health conditions into full account) • Turn off hall lighting (taking safety into full consideration) • Prohibit the use of hot water dispensers
Level 3	<p>Air conditioning, lighting, and other facilities in campus buildings / Education and Research Activities</p> <ul style="list-style-type: none"> • Turn off unused laboratory equipment and other appliances wherever possible • Shut down servers and computers that aren't required • Turn off electric air conditioners in offices, research laboratories and other similar locations (taking health conditions into full account) • Use the on-site power generators at Osaka University Hospital

* All of the above actions must be carried out taking into full account safety, health, hygiene and the Ordinance on Health Standards in the Office and other applicable laws.

Enactment of Level 0 to Level 3

- Level 0 : This level applies year-round regardless of the season.
- Level 1 : This level applies during the duration of the Summer Energy Saving Plan 2014.
- Level 2 : The university will respond to impending power supply-demand crisis warnings issued by Ministry of Economy, Trade and Industry with Level 1 procedures.
- Level 3 : The university will respond to emergency power-saving requests issued by Ministry of Economy, Trade and Industry with Level 1 and Level 2 procedures.

(The Department of Environment and Environment Management will issue requests within the university for the implementation of Level 2 and Level 3 procedures.)