



**Thammasat University Notification**  
**on Energy Conservation and Management Measures**

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For the efficient conservation of energy through the reduction of electricity use on the Thammasat University Rangsit Campus, the following measures for energy conservation are hereby issued for the Thammasat University Rangsit Campus:

**1. Air conditioners**

1.1 Hours of operation for air conditioners are scheduled as follows:

- From 09:00 a.m. to 12:00 p.m. and from 13:00 p.m. to 16:00 p.m. during business days to reduce energy consumption by air conditioners.

1.2 Setting air conditioner thermostats to no lower than 26 °C.

1.3 Water-Cooled /Air-Cooled Water Chillers

- Chillers are to be turned off 30 minutes before the end of office hours/class time
- During periods of inactivity, air handling units (AHU) are to be turned off.
- Chiller cleaning to maintain optimal performance shall be scheduled and performed regularly.

1.4 In cases when work during non-business hours or public holidays is required, if there is a small number of officers, the use of air conditioners should be avoided.

1.5 Labels or stickers with texts stating each practice guideline should be clearly placed next to air conditioner controllers to guide and create awareness of practice.

1.6 The testing of air conditioner efficiency shall be carried out as scheduled, which must include the measurement of the air flow rate and cooling capacity to calculate air conditioner efficiency.

1.7 Smart Monitor systems are to be installed to track electricity usage patterns and to report the results of air conditioner energy efficiency improvements to raise the awareness of building users.

## **2. Lighting systems**

2.1 Original light bulbs shall be replaced by more cost-effective LED light bulbs to increase energy efficiency for lighting. Currently, 23% of the street lighting system uses LED bulbs with a goal to reach 80% LED lighting by 2565.

2.2 During lunch breaks, at the end of work and when there is no staff in the office, lights are to be turned off.

2.3 When there are no users in a bathroom, lights are to be turned off and reminder stickers placed to promote awareness by users.

## **3. Elevator systems**

The system of passenger elevators on the Thammasat University Rangsit Campus shall be adjusted as follows:

3.1 All passenger elevators must not stop at the second floor to reduce energy consumption, and campaign labels must be clearly displayed to encourage the use of stairs when traveling up or down stairs by one floor.

3.2 In a building with more than one passenger elevator:

On Mondays – Fridays, all elevators may be in operation from 07:30 to 17:00, but only one elevator shall be in operation after 17:00. For Saturdays, Sundays, national and public holidays, only one elevator shall be in operation from 07:30 to 17:00.

3.3 Freight elevators are to be used Mondays – Saturdays from 07:00 to 18:00 only.

3.4 Passenger elevators and freight elevators in the Social Sciences buildings will operate Mondays – Saturdays from 07:00 to 18:00. No elevators will operate on Sundays, national and public holidays, except when the buildings are used for examinations.

#### **4. Office appliances**

##### **4.1 Computer equipment**

- Computer screens are to be turned off during lunch breaks and when they are inactive for more than 30 minutes.
- Computers shall be adjusted to “Screen Saver” mode when idle for more than 5 minutes.

#### **5. Water usage**

##### **5.1 To reduce unnecessary loss of the water supply:**

If a malfunction of plumbing equipment is found, or if there is water leakage, either inside or outside buildings, staff and students are asked to inform the Building and Landscape Development Division, Rangsit Center Management Office.

##### **5.2 Water usage reduction**

To reduce water usage for the watering of plants in office buildings, agencies are encouraged to adopt alternate sources of water, such as from dishwashing or canals. Furthermore, agencies are encouraged to support the economical use of water for personal hygiene purposes.

##### **5.3 Creating awareness of water usage**

All agencies and buildings shall affix labels near water faucets to promote and raise awareness of saving water and the value of water resources.

## **6. Paper usage reduction to save resources**

### 6.1 University staff are encouraged to use an e-document system

- For circulars or general promotional letters, use circular notification in the e-document system.
- For documents used to communicate between individuals at the same level of work, send document files through preferred communication channels, such as LINE, personal email, etc.

### 6.2 Reused paper usage

- One-sided paper may be reused. When texts on the used side are not important, they should be crossed out before reusing. One-sided paper can be reused for personal note taking to replace notebook paper, for printing trials, or for printing documents presented within the agency.
- If both sides of the paper have been used, separate for sale as recyclable waste.

### 6.3 Tracking of paper usage reduction

- All agencies shall track the amount of paper in their monthly order, before and after the implementation of “measures to reduce paper usage to save resources” in order to clearly observe their performance.
- All agencies shall publish the data on paper usage reduction or the reduced cost from saving paper so that staff are aware and recognize the value of saving resources.

## **7. Changing the University's service shuttles to electric shuttles**

Electric shuttles running on campus and service shuttle buses for staff account for 80% of the total number of service shuttles in 2021. The goal has been set to convert all service shuttles and buses in the University to electric vehicles by 2022.

## 8. Solar cell panel usage to promote clean energy

### 8.1 Increasing the coverage of clean energy

- To achieve the goal of relying on clean energy for up to 10% of the University's electrical energy consumption by 2022, solar cell panels are increasingly being installed to replace fossil fuel generated electricity.
- The goal of the installation is to increase the use of clean energy for various activities according to the suitability of the installation points and places in all areas around the University.

8.2 Maintenance and enhancement of clean energy efficiency should include scheduled panel cleaning in order to maintain the production efficiency of the panel and continual tracking of electricity production efficiency.

8.3 Thammasat University will cooperate with the private sector to promote clean energy so that the University can become a medium for knowledge development and a partner with the business sector to promote the use of clean energy technologies.

This notification is hereby announced for information and cooperation.

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*G. Witoonchart*

(Associate Professor Gasinee Witoonchart)

Rector