

# On the Road to Green Campus

## Experience of Da-Yeh University



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# Why DYU need to be GREEN?

- We are actually green
- To save electricity
- To save water
- To improve traffic
- To educate for sustainability



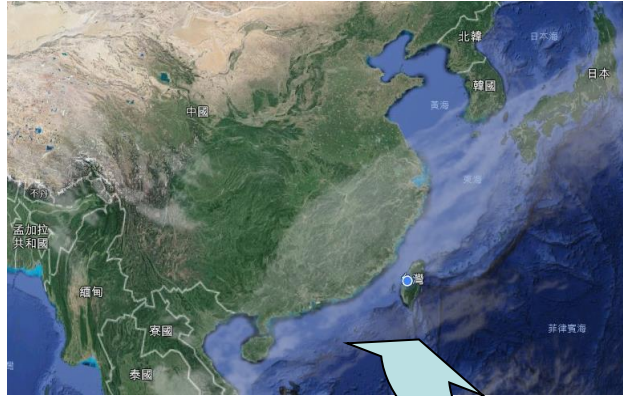
節能標章



省水標章



# Where is DYU?



**Hill toe of Mountain PaGua  
in Central Taiwan**



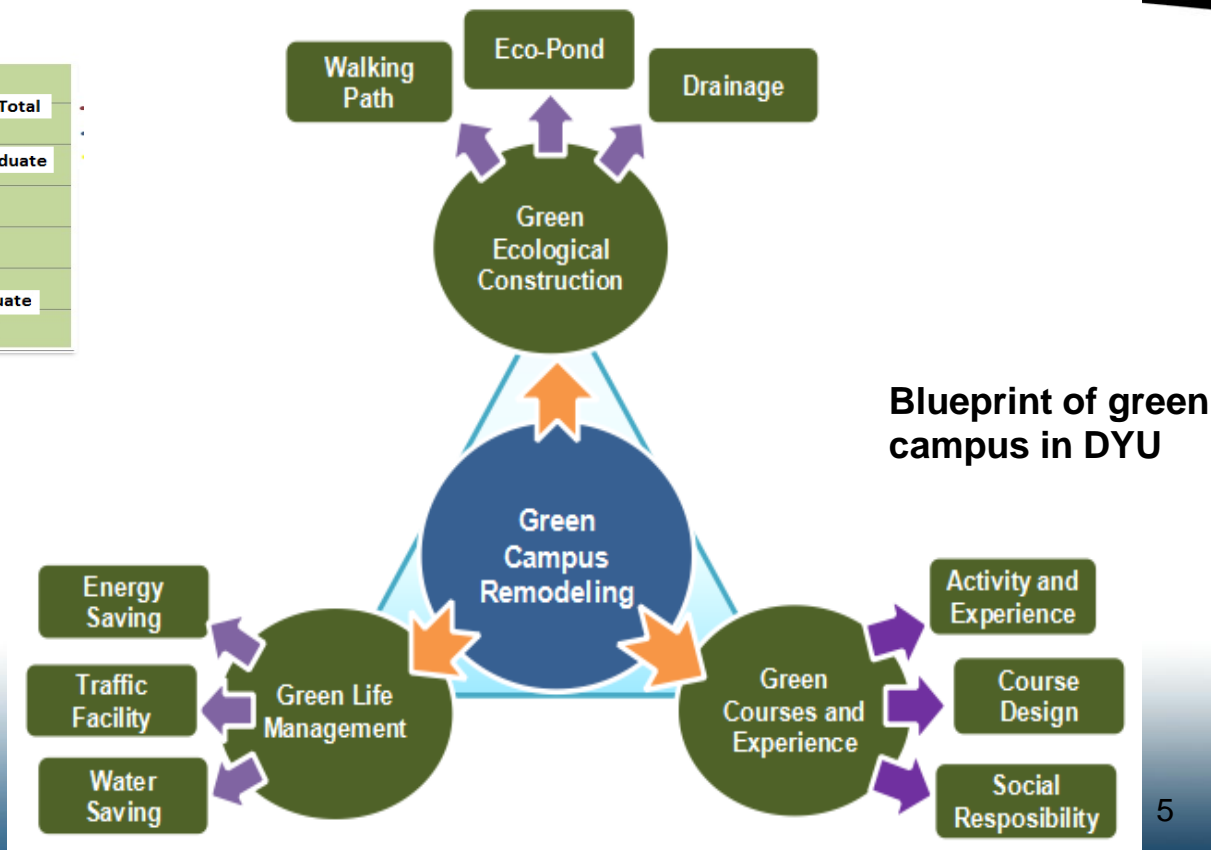
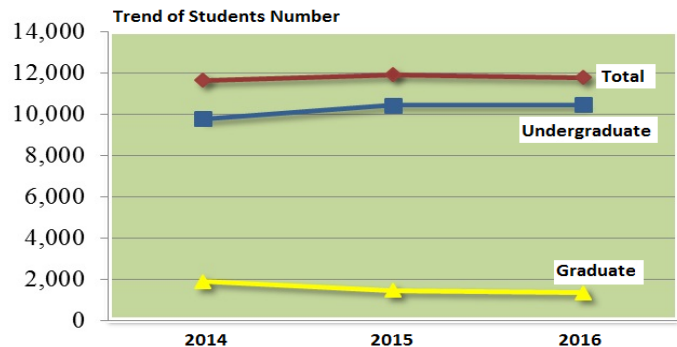


# A Beautiful and Green Covered Campus

31 acres campus with 82.7% green coverage area



# Trilogy of Green Thinking Blueprint



# Sustainable Management Strategies for DYU Development

## **(1) Highlight the healthy campus with ecological environment**

- \* ecological mountain trail in campus
- \* landscape ecological pool
- \* environmental interpretation system in campus
- \* sustainable environmental education

## **(2) Promote the campus energy saving and carbon reduction system**

- \* a sustainable environment system
- \* a sustainable environmental management
- \* green procurement
- \* waste management

## **(3) Create a friendly and barrier-free campus**

- \* comfortable and convenient six-vehicle traffic network
- \* Build a barrier-free campus environment

## **(4) Sustainable and security campus network**

- \* promoting the campus environment to enhance safety and health
- \* strengthen the waste management operations in laboratories



# The Framework of Sustainable Development



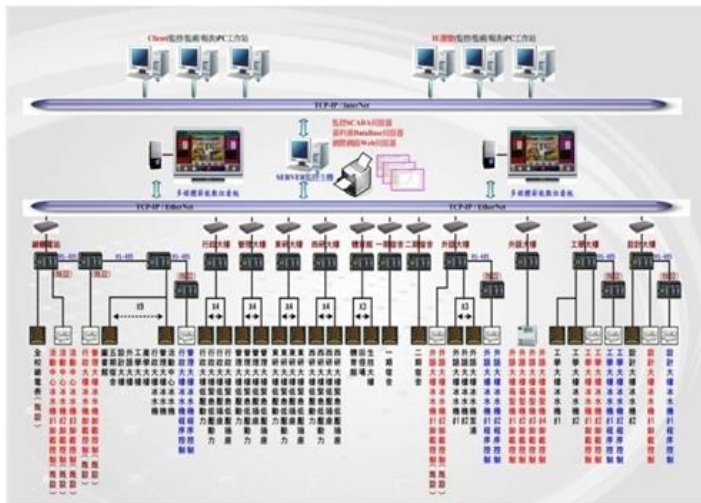
# Accomplishment of Energy Saving

Calendar year	2014	2015	2016
Total student/staff	12,211	12,474	12,351
Total floor area (m <sup>2</sup> )	199,102	199,102	199,102
Annual Electricity Consumption (kW-hr)	14,353,600	14,773,200	14,924,351
Reduced Rate compared with 2013	3.25%	2.84%	1.02%
Electric Use Intensity (kW/m <sup>2</sup> )	72.1	74.2	74.9*
Average Electricity Consumption Per Person (kW-hr/ca)	1,176	1,184	1,208

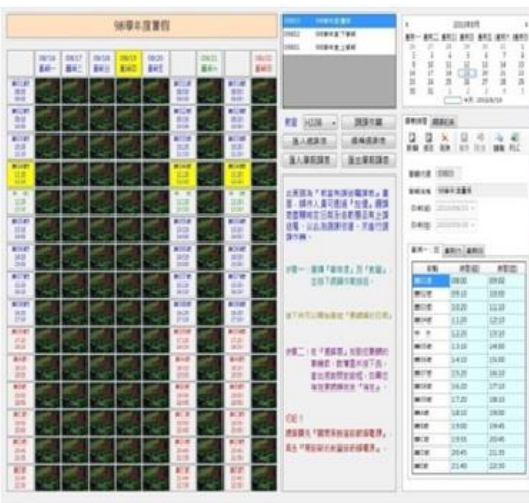
\* The EUI performance of **74.9** is excellent compared with average of **98.2** for all universities in Taiwan.



# Examples of energy saving facilities in DYU



campus energy monitoring system



automatic electricity scheduling system for classrooms



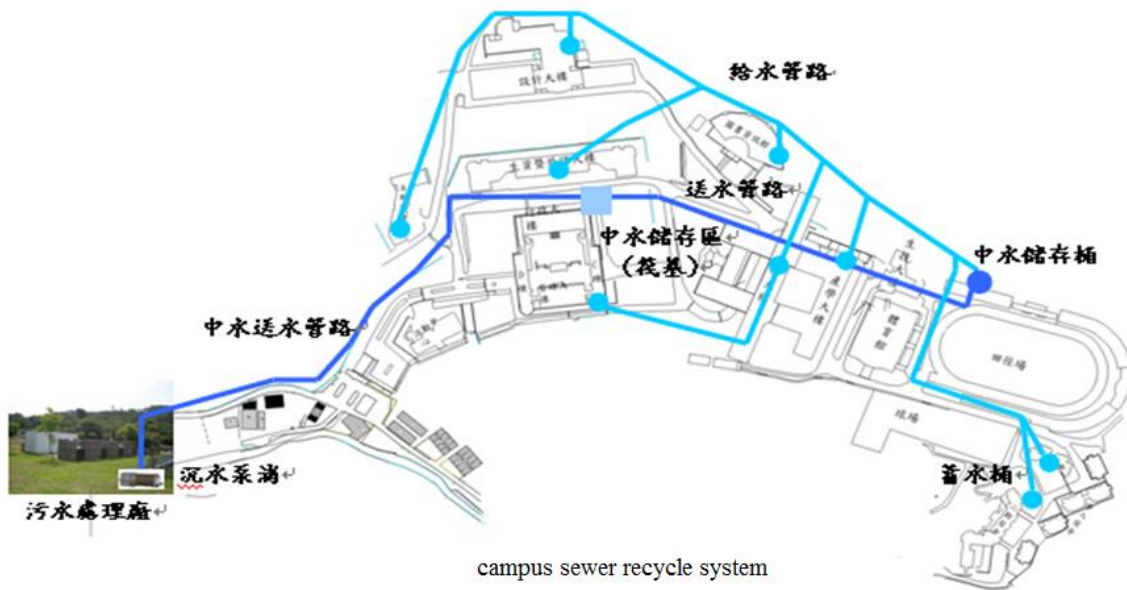
solar hot water system for dormitory

# Accomplishment of Water Conservation

Calendar year	2014	2015	2016
Total student/staff	12,211	12,474	12,351
Total water consumption (ton)	153,639	145,027	140,016
Rate of Conservation compared with 2013	1.8%	7.9%	10.5%
Annual average water consumption per person (ton/ca)	12.8	12.1	11.3*

\* The average water consumption per person performance of **11.3** ton is also much lower compared with average of **39.4** ton for all universities in Taiwan

# Examples of water conservation facilities in DYU



A MBR wastewater treatment system with capacity of treating 1,200 tons of wastewater per day can supply 300 ton high quality recycled effluent water for toilet flushing and lawn watering.



# Accomplishment of Waste Management

Calendar year	2014	2015	2016
Total student/staff	12,211	12,474	12,351
Total amount of garbage (kg)	247,220	282,810	277,130
Average amount of garbage produced per person (kg/ca)	20.25	22.67	22.44
Total amount of recycled garbage (kg)	98,871	95,324	96,763
Rate of Recycle	39.99%	33.71%	34.92%*

\* The resource recycled has been done in good condition to get almost 35% accomplishment. However, there is still a goal to reach compared with the whole average recycle rate of 55% in Taiwan.



# Accomplishment of Transportation Management

Calendar year	2014	2015	2016
Total user (person time)	858,568	886,365	999,530
CO <sub>2</sub> Reduction (kg)	525,614	542,631	611,910



six-vehicle transportation network system

DYU has provided students and university staffs with a safe, comfortable and convenient **six-vehicle transportation network** system for traffic safety and green transportation

# Teaching Excellence Performance

- DYU encourages different areas of teaching with the relevant issues to teach, design environmental issues and **problem based learning**.
- The social context can be connected and the green life education connotation can be implemented.
- In the general curriculum, a large number of planning related topics, such as: energy technology and environmental sustainability, people and the environment, marine and human sustainable development, natural ecology and life education are planned.
- The **corporate social responsibility (CSR)** is promoted and a responsible global citizen is expected for students.

# Summary

- DYU has done to shape a multiple environmental quality aspects with good mountains, good water, and good life.
- DYU recognizes that creating a sustainable campus can actually strengthen its core research and teaching mission.
- Therefore, it is the road to green campus we have to reach without regret.

# Acknowledgement

- DYU has participated this evaluation of Green University since 2011 and got honors for several years.
- We still have to make more progress in all aspects of green and we will be glad to share the experience on the road to sustainable campus.

