



Sustainability Center



Sohag University

“Facts and Numbers”

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Sohag University is one of the regional universities. Its general strategic goal is to cover the needs of the local, national and regional labor market, with well qualified graduates scientifically and practically as well as preparing a generation of distinguished scientists.

The President of the Republic issued a decision to establish the University of Sohag in 2006, and it included the Faculties of Education, Arts, Sciences, Commerce, Medicine and Agriculture.

Then the Faculties of Industrial Education and Nursing were added to the University, in 2008 the Republican Decree was issued to establish the Faculties of Engineering and Veterinary Medicine, the number of faculties in the university became ten faculties.

In 2010, a decision was issued to establish Faculties of Pharmacy and Physical Education.

In 2015, faculties of Law and Foreign Languages (Alsun) were opened to meet the needs of the Sohagi community, then faculty of Archaeology was established by Prime Minister Decision No. 3512 of 2015, and the study began in the academic year 2016-2017, then faculty of Computers

and Information as well as faculty of Specific Education were established, and recently the Council of Ministers agreed to start studies at both Faculty of Graduate Studies & Environmental Research and Faculty of Dentistry, thus the number of university faculties become [19](#), in addition to the Technical Nursing Institute.

The total area of the Sohag university is [4281106.57](#) m², of which [\(175000 m² buildings area and 95.912% open spaces\)](#).

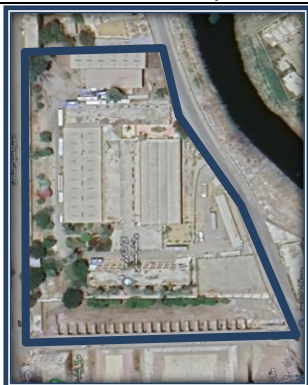
However, Sohag University began with the old campus, which is located in Nasser city on the eastern bank of the Nile River, with a total area of [105399.51](#) m², then the new campus was established with a total area of [3504707.06](#) m² in the western desert borderline of Sohag governorate with the aim of creating a new urban community around the university as the universities are considered.

Indeed, the new city of Sohag is considered one of the most modern and beautiful cities in Sohag Governorate.

This is a credit to Sohag University, as universities are the locomotive of development in societies.

A new third site has been added to the university, which is a farm with an area [630000](#) m² in the city of Al-Kawthar, east of the city of Sohag, which is used for scientific research and training of academic students.

The fourth site is the Center of environmental and marine studies area ([20000](#) m²) and the fifth one is Faculty of Technology and Education area ([21000](#) m²).

		
The Old Campus area (105399.51 m ²)	The New Campus area (3504707.06 m ²)	The Center of environmental and marine studies area (20000 m ²)
		
Al-Kawther Farm Area (630000 m ²) Sohag University, Egypt		Faculty of Technology and Education area (21000 m ²)

It is worth noting that the new campus includes a **1050000 m²** farm containing various crops, which depend on modern methods of agriculture, and modern irrigation methods are used to rationalize water consumption.

Moreover, this farm is used for scientific research and training of academic students from faculties of Agriculture, Science, Medicine and Pharmacy.

University employees:

The number of university employees was **92799** (according to 2023 statistics), and their statement is as follows:

* Faculty and assisting staff **2439**

* Employees **6396**

* Students **83964**

and Graduates: **13230**

University budget:

The total budget of the university in the year 2023 was about **\$44341578**, of which about **27.91%** was allocated to annual sustainability efforts and about \$ **4031469** for scientific research in general, of which about **38.12% (\$1536795)** was for scientific research in the field of sustainability.

Scientific research in the field of sustainability:

The research published by Sohag University in the last three years on the Google Scholar website were about **961** researches in the field of sustainability.

https://scholar.google.com/scholar?q=%22sohag+university%22+%26+green++%26+sustainability&hl=en&as_sdt=0%2C5&as_ylo=2022&as_yhi=2024

While it has a great number of research papers published on the Scopus website covering the different fields.

<https://www.scival.com/overview/summary?uri=Institution%2F700903>

The number of locally published researches and theses related to sustainability are shown below:

Activity	Number of scholarly publications on sustainability (ED.3)
Publications Scientific Researches on sustainability in The last 3 years	783
Master`s and Doctoral Thesis on sustainability in The last 3 years	609
Total	1392

<http://highstudies.sohag-univ.edu.eg/>
Courses related to sustainability:

Sohag University provides sustainability courses and text books to various faculties and institutes, as the university total academic courses is **6283**, out of which **2719** related to sustainability, which means that **43.28%** of the total number of these courses is about sustainability

The ratio of sustainability courses to total courses/subjects (ED.1)

S	Faculties	The ratio
1	Faculty of Graduate Studies and Environmental Research	72%
2	Faculty of Dentistry	33%
3	Faculty of Medicine	58.6%
4	Faculty of Engineering	21.3%
5	Faculty of Agriculture	69.2%
6	Faculty of Education	55.7%
7	Faculty of Arts	11.2%
8	Faculty of Pharmacy	59.6%
9	Faculty of Archaeology	22.2%
10	Faculty of Foreign Languages (Alsun)	9.0%
11	Faculty of Computing and Information	16.3%
12	Faculty of Law	21.5%
13	Technical Institute of Nursing	57.6%
14	Faculty of Physical Education	41.3%
15	Faculty of Commerce	24.0%
16	Faulty of Science	63.6%
17	Faculty of Veterinary Medicine	65.1%
18	Faculty of Technology and Education	64.0%
19	Faculty of Nursing	61.9%
20	Faculty Of Specific Education	38.5%

Total	43.28%
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Conferences and scientific seminars related to sustainability:

The number of these activities in the last three years reached **489**, and their details are shown in the following table:

S	Activity	Number of events related to sustainability (ED.4)
1	Conferences	35
2	Workshops	61
3	Awareness Raising	72
4	Practical Training	321
Total		489

Example of Activities related to sustainability



University tree planting activities



Celebrating World Environment Day



Annual Art Exhibition at the College of Education



Effective Leadership Skills and Sustainable Development Training



Training on developing a culture of innovation and green entrepreneurship

* دورة التنمية المستدامة رقم (2)



يماضر فيها

تحت رعاية

أ.د/ حسان النعماني
رئيس الجامعة

أ.د/ خالد عبد اللطيف محمد عمران
نائب رئيس الجامعة لشئون خدمة المجتمع وتنمية البيئة

أ.د/ حمدي محمود أحمد حسنين
عميد كلية الدراسات العليا والبحوث البيئية
ومدير مركز التنمية المستدامة بجامعة سوهاج

للتواصل

01068388081

أ.د/ حمدي حسنين
عميد كلية الدراسات العليا والبحوث البيئية
ومدير مركز التنمية المستدامة بجامعة سوهاج

أ.د/ ندا عبد المحسن
أستاذ الميكروبيولوجيا الطبية والمناعة بكلية الطب البشري بجامعة سوهاج
ومدير وحدة مكافحة الأمان والمخدرات بجامعة سوهاج

أ.د/ عماد صموئيل وهبة
أستاذ أصول التربية بكلية التربية
ووكيل لشئون خدمة المجتمع وتنمية البيئة بكلية التربية جامعة سوهاج

أ.د/ عبد العليم المنشاوي
أستاذ وقاية النبات بكلية الزراعة
ومدير وحدة مكافحة الآفات بكلية الزراعة جامعة سوهاج

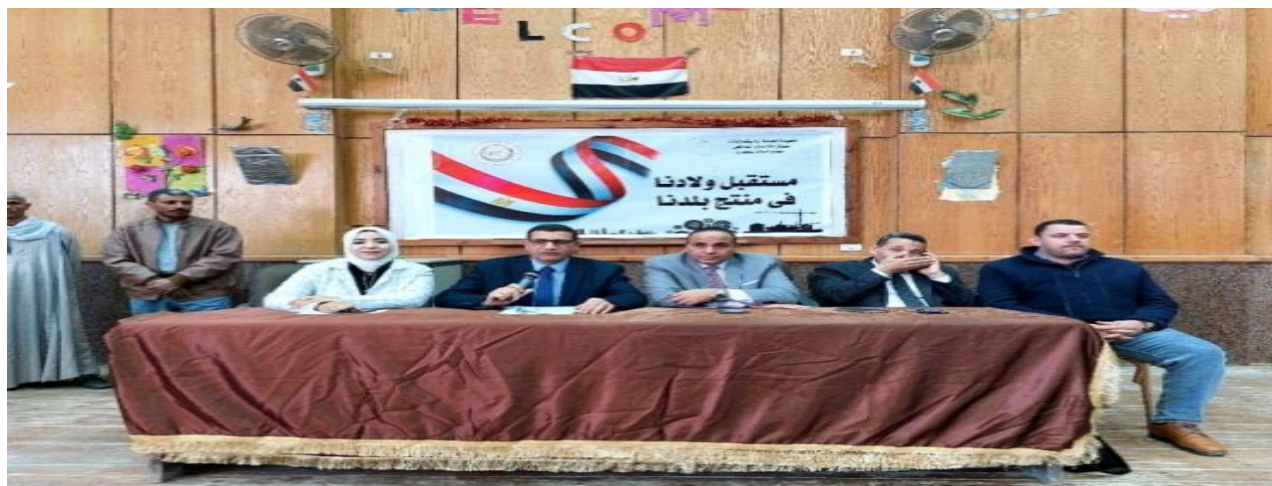
تعقد الدورة يومي

الثلاثاء الموافق 27/ 2 من 9 ص : 2 م بقاعة مركز الجودة بالدور السادس بمبنى الخدمات.
ويوم الخميس الموافق 29/ 2 من 9 ص : 2 م بقاعة مركز تكنولوجيا المعلومات والاتصالات بمبنى الخدمات

Training on sustainable development for the staff staff at Sohag University at the Sustainable Development Center



Awareness seminars for students in the field of literacy and adult education



A seminar entitled “University Student, E-Marketing Idea and Entrepreneurship” under the slogan “The Future of Our Country with Our Children’s Products”

دعوة

سعادة ا.د/ حسان النعماني
رئيس جامعة سوهاج

سعادة ا.د/ خالد عمران
نائب رئيس الجامعة

سعادة ا.د/ حسين طه عطا
عميد كلية التربية

لشئون خدمة المجتمع وتنمية البيئة

وتحت إشراف / ا.د عماد صموئيل وهبة : وكيل الكلية لشؤون خدمة المجتمع وتنمية البيئة

تدعوكم كلية التربية بالتعاون مع كلية الآثار

لحضور ندوة بعنوان " اعرف بلدك "

ا.د. فهيم فتحي ابراهيم عميد كلية الآثار

د. هشام احمد فهيد استاذ مساعد بقسم الآثار المصرية

د. عامر عجلان محروس الآثار بقسم الآثار الإسلامية.

يحاضر بها

وذلك يوم الاثنين الموافق ٢٥ مارس ٢٠٢٤ الساعة الثانية عشرة ظهرا بقاعة المناقشات بالكلية .



National Awareness Seminar: Know Your Country's Antiquities



Seminar entitled: The Role of Curricula in Addressing Climate Change

Student Activities:

The number of student organizations related to sustainability activities has reached **34** per year.

Activity	Number
Number of activities organized by student organizations related to sustainability per year	34

Example of student organizations related to sustainability



Sohag University students organize 100 days of sports initiative within the framework of the presidential initiative to build the Egyptian human being



Sohag University team in karate training



Sohag University team in karate training



The team of Faculty of Specific Education Choir presents a number of national songs in preparation for Sohag University's celebration of the October victories.



The team of Faculty of Specific Education Choir presents a number of national songs in preparation for Sohag University's celebration of the October victories.



The University students presents a number of national songs in preparation for Sohag University's celebration of the October victories.



Sohag University students organize “Ping Pong” competition



Sports Festival for Students of the Faculty of Physical Education



Sports Festival for Students of the Faculty of Physical Education



Sohag University students organize a chess competition



Sohag University students organize a volleyball competition

Sohag University students participate in "Volunteer House" activities



Sohag University students participate in "Volunteer House" activities



Participation of student families in the presidential initiative to build the human being

Energy conservation:

The university has applied several mechanisms to work on rationalizing energy use, such as:

***Natural ventilation and shading from big trees:**

Many buildings at SOU meet the basic green building standard in Egypt where they have been designed and constructed for natural ventilation, particularly, the ground and second floors in those buildings are cooled down in summer by natural ventilation.

As a result, big trees around buildings provide shade for activities both on ground and second floors and outdoors.

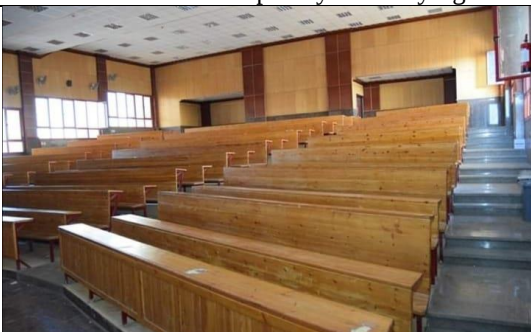


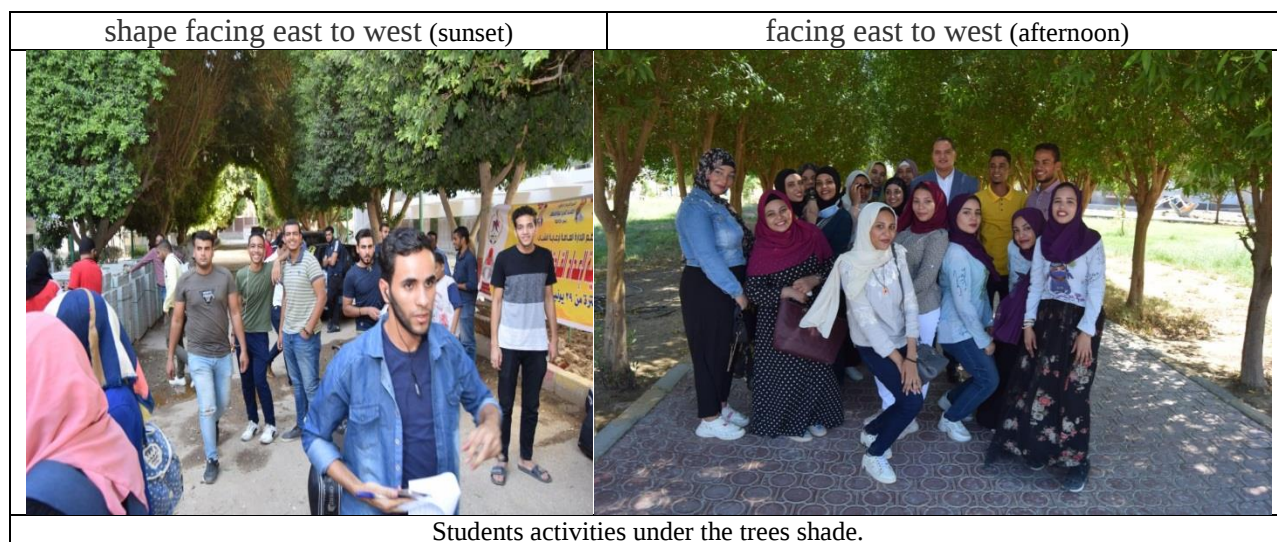
***Full natural daylight:**

Most buildings at SOU have been designed to be naturally day lighted where sun light reaches most area of the buildings.

Most of staffs' offices, labs and class rooms have been design to get much of natural sun light so that there is no need to turn on light bulbs during the day time.

Moreover, most buildings are designed in a rectangular shape facing east to west to reduce exposure to sunlight and its heat in summer, while the sun's rays come during the winter from the south, which warms up the buildings without needing for heating devices.

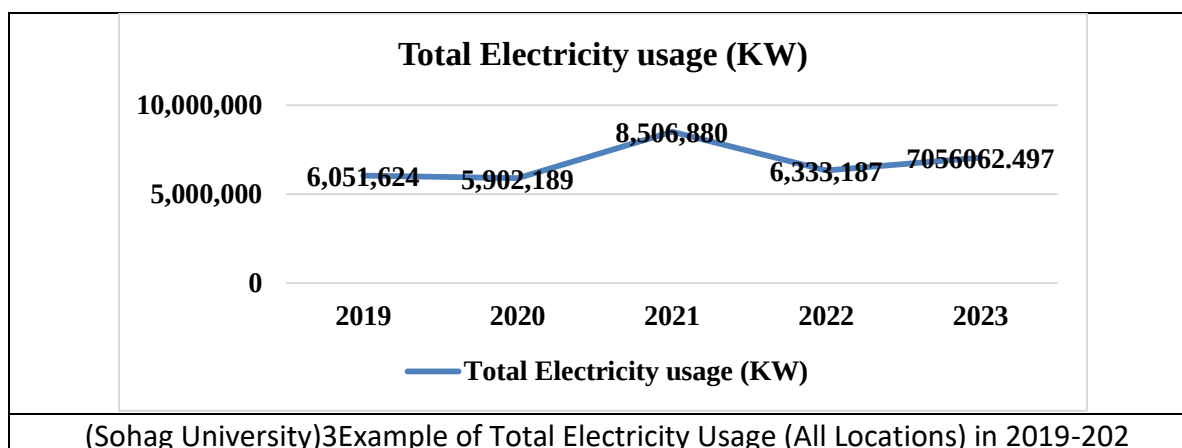


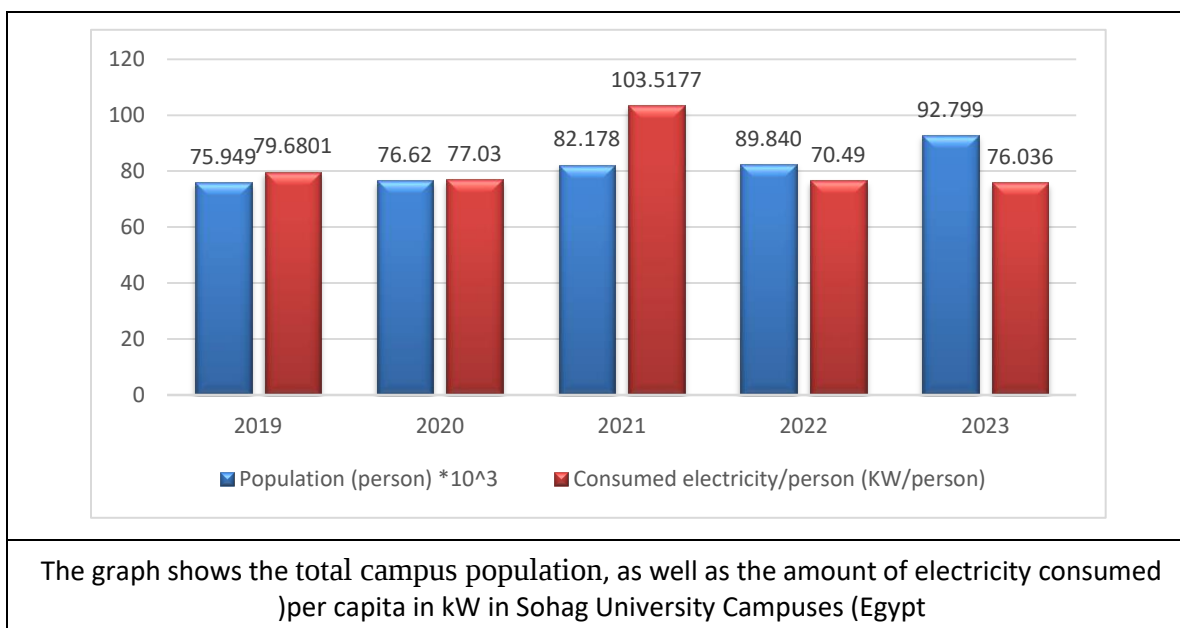
Electricity consumption:

The university is working in full capacity, including the construction of many new buildings, which led to an increase in electricity consumption.

The university plans to cover the car parks with solar cells to produce clean energy to compensate the increase in consumption from traditional electricity.

The value of electricity consumption for all activities at the university in 2023 was **7056062.497** kilowatt hours, so that the average annual per capita consumption recorded **76.036** kilowatt hours.





The university works on using renewable energy (solar cells) to shade rooftops and consume less electricity generated from conventional fuels, in collaboration with the National Initiative for Smart Green Projects (<https://www.sgg.eg/>)

Renewable Energy Sources in Campus

Sohag university has started to use ecofriendly sources to produce energy, such as:

- 1- Building biogas generating units from organic waste (Sohag University).
 - Sohag University has established two biogas units for generating methane.
 - Biogas is a safe, non-toxic, colorless gas and a clean source of energy.
 - The biogas is produced by the fermentation of any organic matter, but at our university mainly composed of animal manure from university farms
- 2-Using the solar energy to operate hydroponic models by the Sustainability Unit (Sohag University).
- 3-The establishment of an electric car model using solar energy plates.



1- Building biogas generating units from organic waste (Sohag University)



Using solar energy to operate hydroponic 2-models by the Sustainability Unit (Sohag University)



A model of an electric car within the graduation projects of Faculty of Technology and Education, Sohag University

Total carbon footprint :

Total carbon footprint (CO₂ emission in the last 12 months, in metric tons):



Calculation of carbon footprint at sohag university per year (2023)

1. Electricity :

Electricity usage: 7056062.497 Kilo watt hour

$$(7056062.497/1000) \times 0.84 = 5927.09$$

Carbon footprint = 5927.09 metric tons

2. Transportation (Shuttle bus):

No. Shuttle bus = 4

total trips=48

App. Travel dist.=1.2 km

$$\{(4 \times 16 \times 1.2 \times 240)/100\} \times 0.01 = 1.84$$

Carbon footprint = 1.84 metric tons

3. Transportation (Cars):

No. Cars = 720

App. Travel dist.=1.2 km

$$[(720 \times 2 \times 1.2 \times 240)/100] \times 0.01 = 34.10$$

Carbon footprint = 41.47 metric tons

4. Transportation (Motorcycle): Its entry is forbidden**

Carbon footprint = 0 metric tons

Total carbon footprint = 5970.4 metric tons

The total carbon footprint divided by total campus population (metric tons per person).

Formula: $((2.11)/(1.12+1.14))=$ **0.064**

Transportation:

*The university has **99** different cars, and an average of **621** private cars get in on a daily basis.

The university has allocated 4 parking lots in separate places to prevent random parking, while a parking zone for motorcycles has been allocated outside the campus.

*There are 4 frequency transport buses operate in the university, and every bus makes 16 trips (round trip) with a capacity of 50 passengers to serve the university employees.



*In addition, special pedestrian paths have been established in which ramps for people with special needs are taken into consideration.

This is in addition to establishing special paths for bicycles to encourage the spread of their use, and especially there is a plan at the university to provide numbers of bicycles that work by smart lock through an application on mobile phones.



*The university also, intends to purchase a number of (environmentally friendly) buses that run on electricity, to be used in the frequency transmission.

Water:

The university has created a platform called “Water Support, Monitoring and Management” to spread awareness of everything related to water conservation management and protecting it from pollution.

<https://sust.sohag-univ.edu.eg/%D9%85%D9%86%D8%B5%D8%A9-%D8%AF%D8%B9%D9%85-%D9%88%D9%85%D8%B1%D8%A7%D9%82%D8%A8%D8%A9-%D8%A5%D8%AF%D8%A7%D8%B1%D8%A9-%D8%A7%D9%84%D9%85%D9%8A%D8%A7%D9%87/>

* The Nile River is the main source of the university's water, after its purification in the purification stations of the governorate.

* Several effective water saving devices are on the way to be installed along with all the devices used on the campus, they will be replaced by effective devices where, the university afforded the cost of low-flush

appliances – hand washing faucet – which are installed now at the old campus.

Also motion sensors appliances will be installed at the New University campus.

Moreover, Sprinkler irrigation is also used for farms on campus.



The university took the lead in a campaign to raise the awareness about the dangers of polluting this crucial water source.

The campaign focused on many related topics including:

- Freshwater resources available in the Arab Republic of Egypt.
- Why is the Nile the most important of these resources?
- The impact of Nile water pollution on people's health on the short and long term.
- Sources of Nile River pollution and the areas most exposed to this pollution.
- Mechanisms for preserving the Nile River from pollution.
- Social responsibility towards the Nile River and protecting it as one of the most important national resources.
- Encouraging volunteering and participation in campaigns calling for cleaning the Nile River.





* The Sustainability Center at Sohag University has also begun to spread the culture of hydroponics in a closed cycle to encourage water rationalization.



* In the field of water recycling, the university is connected to the public sewage network in the governorate, where the governorate's water and wastewater company recycles **100%** of water and uses it to irrigate tree forests in desert areas.

Beside the Nile's, Sohag University has two wells and a canal used to irrigate its farms.

Canals usually suffer from water leak results in the preserved water, after lining, water level remained constant with little fluctuation during the summer.

The canal lining was performed last year under the supervision of the governorate.

Water canal before and after lining



Water Conservation fresh water



The well after being dug



The well After being built

Waste management:

(Reduce, Reuse and Recycle) Program for University Waste



in poultry farms at the Example of Recycling Program for University Industrial Waste , wood shavings
(Sohag University, Egypt) Faculty of Agriculture



Separation of waste within student and research laboratories (Sohag University, Egypt).

Sohag University adopts a system for Recycling program in two stages. Firstly, collecting these wastes from different sites, and separating them into special storage rooms, as valuable wastes.

Then, it announces about the annual public auction.

A lot of merchants attend this auction and the university gains the big value from these wastes.

Additionally, this system allows all types recyclables (plastic, paper, glass, aluminum) to be placed in the same container, making it easier for the user.

Sohag University also promotes the recycling of Electronic and Electrical Waste. E-waste items should not be disposed to in the normal trash due to their high level of toxic chemicals and heavy metals.



The university encourages all its employees to separate the waste and provides the necessary containers for this purpose in preparation for recycling and benefiting from it.

The university also provides various means for collecting and disposing of hazardous waste such as the waste of university hospitals, as there is a special unit in Sohag University Hospital for the treatment of medical waste, and it deals with liquid and solid wastes that are collected from all laboratories, research units and clinical departments managed by the technical team of waste.

They are responsible for operating a complete automated medical waste treatment system at Sohag University Hospital.

In addition, the university participates in a partnership with Health Directorate in the campus of medical incinerators in Al Kawthar city.

*in the campus of Sohag University, there are some places that produce organic waste such as cafeterias and central restaurants, in addition to the fallen leaves from the green spaces Plus pruning horticulture.

Sohag University manages organic waste through an annual renewable contract with Hi-Kit Company. (<http://highkit.net/>)



This is a letter of Hi-Kit Company to the university president.

*Moreover, the university has initiated an agreement with Green Flat company for farm supplies and equipment to convert the university's organic waste into bio-organic fertilizer using earthworms via Vermicomposting. as shown in the sample pictures provided by the company. <https://greenflateg.com/>



Example of collection of horticulture trimming, Sohag University, Sohag, Egypt.



Example of converting organic waste into organic fertilizer (Green flat company), Sohag University, Egypt.