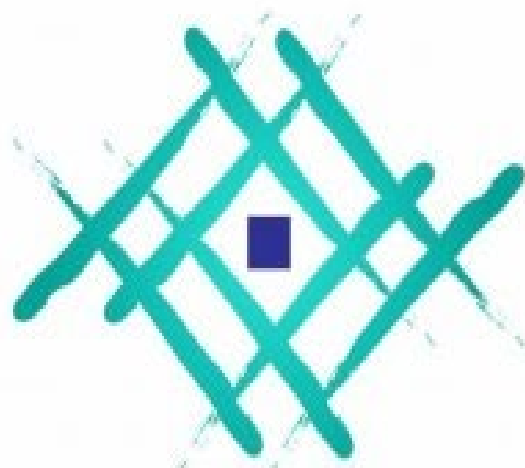


University Report on SDG 12



جامعة القصيم
Qassim
University

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



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SDG12: RESPONSIBLE CONSUMPTION AND PRODUCTION

Shaping Sustainable Consumption and Production: Qassim University's Contribution to SDG 12 in Saudi Arabia

Sustainable Development Goal 12 (SDG 12) emphasizes responsible consumption and production patterns to ensure the sustainable use of resources and reduce environmental impacts. This essay delves into Saudi Arabia's endeavors to achieve SDG 12, focusing on Qassim University's role in promoting responsible consumption and production practices.

SDG 12 in Saudi Arabia:

Saudi Arabia recognizes the significance of sustainable consumption and production in minimizing waste, conserving resources, and mitigating environmental degradation. The country has taken several initiatives aligned with SDG 12:

- **Waste Management:** Saudi Arabia has implemented waste management strategies to reduce the generation of waste and promote recycling and proper disposal practices.
- **Circular Economy:** The nation is exploring the concept of a circular economy, where resources are reused, recycled, or repurposed to minimize waste and resource depletion.
- **Sustainable Agriculture:** Saudi Arabia is investing in sustainable agricultural practices that optimize resource use, reduce chemical inputs, and promote eco-friendly farming methods.
- **Energy Efficiency:** The country is striving to improve energy efficiency across sectors, reducing consumption and associated environmental impacts.

Qassim University's Initiatives:

Qassim University actively contributes to SDG 12 by promoting responsible consumption and production practices:

- **Sustainable Campus Operations:** The university implements energy-efficient technologies, reduces water consumption, and practices waste segregation and recycling on campus, setting an example for responsible resource management.
- **Curriculum Integration:** Qassim University integrates sustainable consumption and production topics across disciplines. Students are educated about the environmental, social, and economic implications of their consumption choices.
- **Research for Sustainability:** Faculty and students engage in research related to sustainable consumption and production. This includes studies on waste reduction, renewable energy, and sustainable agriculture practices.
- **Awareness Campaigns:** The university conducts awareness campaigns and workshops to educate students and staff about responsible consumption habits, waste reduction, and sustainable lifestyles.
- **Community Outreach:** Qassim University collaborates with local communities to raise awareness about responsible consumption and production. It partners with NGOs, schools, and local authorities to promote sustainable practices.
- **Innovation and Entrepreneurship:** The university fosters innovation and entrepreneurship by supporting students' initiatives that contribute to responsible consumption and sustainable production.

Challenges and Future Prospects:

Achieving SDG 12 requires a shift in mindsets, consumer behavior, and industry practices. Challenges in Saudi Arabia might include addressing cultural norms, ensuring policy implementation, and tackling consumerism. However, with ongoing efforts, these challenges can be overcome.

Promoting responsible consumption and production is essential for the sustainable future of Saudi Arabia. By adhering to SDG 12, the country aims to reduce its ecological footprint and foster a greener economy. Qassim University, through its holistic approach encompassing education, research, and community engagement, plays a pivotal role in shaping responsible individuals who contribute to sustainable consumption and production patterns. Through these collaborative efforts, Saudi Arabia and Qassim University contribute to a more sustainable and balanced world for present and future generations.

12.4 Publication of sustainability report: Annual, Bi-annual or Less Frequent

A green university city that supports environmental sustainability.

<https://twitter.com/QassimUniv1/status/1639338095089680399> [1]



More than 72,000 trees and palm trees, and 138,000 square meters of green areas and spaces are adorned #جامعة_القصيم through treated water that is used in irrigation operations at the university.

The Green KSA Initiative

<https://twitter.com/QassimUniv1/status/1670478362530181120> [2]

Within the #الخضراء_السعودية initiative and to achieve the goals of the Kingdom's Vision 2030.

#جامعة_القصيم contributes to increasing the vegetation area within the university city and benefiting from approximately 524 thousand cubic meters of treated water to reduce the effects of desertification



From الإخبارية - آخر الأخبار

The sustainable Development Corner of the Fourth Campaign

<https://twitter.com/QassimUniv1/status/1659190282066497536> [3]



In order to raise the level of environmental awareness.

The sustainable development corner of the fourth #جامعة_القصيم campaign “Awareness, Health and Education” provided the visitors of the campaign with educational materials in preserving the environment and encouraging practices in protecting and cultivating wild plants, in addition to rationalizing energy and water consumption, at the Celebrations Center in Qubba in Al Asyah Governorate.

Qassim Land is Green

<https://twitter.com/QassimUniv1/status/1655892766914740224> [4]



It exceeded 70,000 trees during its previous stages.

His Excellency the President of #جامعة_القصيم inaugurates the eleventh phase of the #أرض_القصيم_خضراء and #لنَجعلها_خضراء initiative, which aims to plant 30 thousand seedlings and increase the vegetation cover in the university, in the presence of His Excellency the Vice Rectors, His Excellency the Director General of the Ministry of Environment, Water and Agriculture in Qassim Region, and His Excellency the Director of the National Center for Vegetation Development and Combating Desertification branch in the region, at the headquarters in the university city.

Cooperation for Green Qassim

<https://twitter.com/QassimUniv1/status/1655894402265497600> [5]

His Excellency the President #القصيم_جامعة honors the branch of the Ministry of Environment, Water and Agriculture in Qassim Region, and the National Center for Vegetation Cover Development and Combating Desertification in the region for their cooperation with the university in implementing the #أرض_القصيم_خضراء and #لنجعلها_خضراء initiatives.



The One Million Environmental Volunteer Hours Campaign

<https://twitter.com/vuquni/status/1653077659302129665> [6]

Today, the One Million Environmental Volunteer Hours Campaign was launched through the afforestation of the University City and the Women's Colleges Complex at #جامعة_القصيم, as part of the agreement signed between the university, the Ministry of Environment, Water and Agriculture branch and the National Center for Vegetation Development, which provides a package of various environmental volunteer opportunities.



Treating Water

<https://twitter.com/QassimUniv1/status/1642430149583929344> [7]

524 thousand cubic meters annually of treated water are invested to enhance the vegetation cover in the university city with **جامعة القصيم** #



From الإخبارية - آخر الأخبار

Memorandum of Understanding to Implement the Campaign of One Million Environmental Volunteer Hours

<https://twitter.com/QassimUniv1/status/1640333907202650113> [8]

His Royal Highness Prince Dr. Faisal bin Mishaal bin Saud bin Abdulaziz, Governor of Al-Qassim region, witnesses the signing of a memorandum of understanding to implement the campaign of one million environmental volunteer hours between **جامعة القصيم** and the branch of the Ministry of Environment, Water and Agriculture, and the National Center for Vegetation Cover Development and Combating Desertification in Al-Qassim, in the presence of His Excellency the President of the University, Professor Dr.



مذكرة تفاهم

الثنين 27 مارس 2023م

شهد صاحب السمو الملكي الأمير الدكتور فيصل بن مشعل بن سعود بن عبدالعزيز أمير منطقة القصيم، توقيع مذكرة تفاهم لتنفيذ حملة مليون ساعة تطوعية طلابية بين جامعة القصيم وفرع وزارة البيئة والمياه والزراعة بمنطقة القصيم والمركز الوطني لتنمية الغطاء النباتي ومكافحة التصحر بالقصيم، بحضور معالي الأستاذ الدكتور عبدالرحمن بن حمد الداود رئيس الجامعة، حيث وقع الاتفاقية سعادة وكيل الجامعة الدكتور محمد السعوي، وسعادة مدير فرع وزارة البيئة والمياه والزراعة المهندس عبدالعزيز الرجيعي، ومدير فرع المركز الوطني لتنمية الغطاء النباتي ومكافحة التصحر بالقصيم المهندس بدر الفيضان.

عن الاتفاقية

انطلاقاً من مستهدفات رؤية المملكة 2030م وانسجاماً مع إطلاق سمو ولي العهد - حفظه الله - مبادرة «السعودية الخضراء» ومواصلة لجانات مبادرة سمو أمير منطقة القصيم «أرض القصيم الخضراء» جاءت هذه الشراكة لتعزيز من تحقيق غايات ورفع نسبة الغطاء النباتي والتشجير والقيم البيئية وزيادة معدل التطوع المجتمعي، بالإضافة إلى مشاركة الفرق التطوعية ومندوبي وطالبات الجامعة في الاستزراع، وتحسين الغطاء النباتي في المتنزهات الوطنية ومناطق الجامعة.

أهداف المذكرة

تعزيز التعاون
المشارك
تحقيق التكامل
وتوحيد الجهود

تفعيل العمل التطوعي
في القطاع البيئي

تفعيل مبادرة «جعلها خضراء» لتحقيق
مستهدفات رؤية المملكة 2030

0513000091
051 90 000
الهاتف: 0513000091
للتعليم والتواصل

Our environment is our life.. we do not destroy it with our own hands..

Be responsible and protect the environment.

<https://twitter.com/QassimUniv1/status/1635948481301839872> [9]



Qassim University Framework strategy for Climate change

<https://pdq.qu.edu.sa/laravel->

[filemanager/files/shares/Final_Qassim%20University%20Framework%20strategy%20for%20Climate%20change.pdf](https://pdq.qu.edu.sa/laravel-filemanager/files/shares/Final_Qassim%20University%20Framework%20strategy%20for%20Climate%20change.pdf) [10]



Achievements and activities of the college

<https://cavm.qu.edu.sa/content/pages/14> [11]

International conferences organized by the College:

1. The College organized and held the International Scientific Meeting of Date Palm in the period from 19 to 22/7/1424 AH corresponding to 16-19/9/2003 AD under the patronage of His Royal Highness Prince Sultan bin Abdulaziz, may Allah have mercy on him.
2. The College organized and held the International Scientific Meeting for Camels in the period from 12 - 14/4/1427 AH corresponding to 10 - 12/5/2006 AD under the patronage of His Royal Highness Prince Sultan bin Abdulaziz, may Allah have mercy on him.
3. The College organized the Second International Conference on Date Palm in the period 9-11 Muharram 1438H corresponding to 10-12 October 2016 under the patronage of His Royal Highness Dr. Faisal bin Meshal bin Saud bin Abdulaziz, Governor of Qassim Province.
4. The College organizes annually the research day and the accompanying activities.

Awards won by the College:

- 1- The College obtains the academic accreditation of its full academic programs until 2023 from the Evaluation Authority.
- 2- The College receives the shield of His Excellency the Rector of the University for quality for two consecutive years 36/37.
- 3- The university received the golden shield of His Excellency the Rector of the University in 1435 AH.
4. His Excellency the Dean of the College won the first place in the Prince Faisal Bin Bandar Award for Palms "Best Scientific Work" in its third session of 1433 AH at the Palm Center in the city of dates in Buraidah, for his applied scientific research on the innovation and design of a self-controlled irrigation system to rationalize water in the irrigation of palm fluids, within the celebrations of the Buraidah Dates Festival for the year 1433 AH.
5. His Excellency the Dean of the College, Prof. Dr. Abdulrahman Al-Hameed, was awarded the annual Arab Fertilizer Union Award (an Arab international body) for the year 2006 corresponding to 1427 AH in recognition of his outstanding research in the field of fertilizer use.
6. H.E. Dr. Musaed Al-Dhubaib, Head of the Department of Veterinary Medicine, was awarded the Qassim University Award for Distinguished Research for Applied Sciences for the year 1430 AH in recognition of his distinguished research on the PPR virus in the Qassim region.
7. H.E. Prof. Dr. Khalid Al-Radhiman received the Qassim University Award for Distinguished Research for Applied Sciences for the year 1429 AH in recognition of his distinguished research using a technique in date storage applied for the first time in the Kingdom of Saudi Arabia and in the world to maintain quality without damage for a long time.
8. H.E. Prof. Dr. Maher Hassab Al-Nabi Khalil, Professor of Animal Genetics and Husbandry at the College, received the first gold award for distinguished research at the level of the Kingdom from King Abdulaziz City for Science and Technology for the year 2006 corresponding to 1427 AH in recognition

of his scientific excellence in heading the research team to implement the city's research projects for genetic improvement.

9. The Department of Veterinary Medicine at the College was awarded the Qassim University Award for the distinguished department for the year 1429 AH in recognition of its excellence in its scientific products from research projects implemented by the department and others supported by various parties and its contribution to community service as well as its authorship and translation in the field of veterinary sciences.

10. The football team of the college was awarded the cup of His Excellency Prof. Dr. Rector of the University for the academic year 1429/1430 AH after winning the competing colleges and then reaching the final match and winning it and then receiving the Cup of His Excellency the Rector of the University and obtained the 2nd place in the year 36 AH.

11. H.E. Prof. Dr. Ahmed Fathy, Professor of Surgery, received the Distinguished Research Award for Applied Sciences at Qassim University for the year 1433 AH.

12. H.E. Dr. Ahmed Mustafa Ali won the Almarai Award for Veterinarian Branch of Distinguished Researcher in Veterinary Medicine for the year 1434 AH.

13. H.E. Dr. Mohammed Tharwat Abdul Aal won the Abdul Hameed Shoman Award for Agricultural Sciences for Young Arab Researchers from the Hashemite Kingdom of Jordan for the year 2012.

14. H.E. Dr. Moataz won the Abdul Hameed Shoman Award for Agricultural Sciences for Young Arab Researchers from the Hashemite Kingdom of Jordan.

15. H.E. Dr. Tharwat wins the Abdul Hameed Shoman Award for Agricultural Sciences for Young Arab Researchers from the Hashemite Kingdom of Jordan

16. H.E. Dr. Khalid Al-Sabeel and his assistant research team won the Edison Award.

17. HE Dr. Tharwat won the Almarai Award for Veterinarian Distinguished Researcher Branch in Veterinary Medicine.

18. HE Dr. Al-Hawass won the Almarai Award for Veterinarian Distinguished Researcher Branch in Veterinary Medicine.

19. HE Dr. Fathy won the Almarai Award for Veterinarian Branch of the Distinguished Researcher in Veterinary Medicine.

Local and International College Participations:

1. The College participates annually in the Palm Exhibition in the University Pavilion at the Heritage Site of the Qassim Region at the National Festival of Heritage and Culture in Janadriyah in the Riyadh Region.

2. The College participated in the Palm Exhibition in the activities of the Saudi Cultural Days organized and held in the countries of Russia, Turkey, Algeria, France, Brazil and Indonesia.

3. The College participates in the preparation and implementation of the Tree Week held annually in the Qassim region.

4. The College annually prepares and equips the veterinary clinic accompanying camel races organized during the National Festival of Heritage and Culture in Janadriyah in the Riyadh region with the aim of camel safety and preservation.
5. The College participates annually in the Kingdom's project to benefit from the meat of the gift and sacrifice in the Hajj seasons through the College's mission in Mecca, which consists of students of the final stages of the Department of Veterinary Medicine at the College who carry out animal inspections before and after slaughter to ensure the safety of the gift and sacrifice.
6. The College participates annually in the festivals of the region, especially agricultural and veterinary festivals such as date festivals, spring festival.
7. Organizing veterinary and agricultural convoys and food awareness in the region every semester.

Searching for sustainable solutions for Saudi Arabia

<https://www.timeshighereducation.com/hub/p/searching-sustainable-solutions-saudi-arabia> [12]



Researchers at Qassim University are using the latest technologies to find sustainable power sources and environmentally friendly water management techniques

From turning date palm tree waste into renewable energy to harnessing the power of the sun, Qassim University is on a mission to find sustainable power solutions.

Investigating sustainable developments in energy, water and environmental engineering is one of the university's 10 priorities, set out in its 2020 to 2024 research strategy.

Sustainable technologies are crucial in Saudi Arabia, where wastewater, municipal and construction waste and air pollution pose environmental threats. The Saudi Vision 2030 has set a target to power half the country with renewable resources by 2030.

Qassim University is working on a host of solutions, from sludge management and waste recycling to sea and groundwater desalination.

One notable project, led by Professor Sulaiman Alyahya, is examining how this waste from date palm trees can be transformed into renewable energy.

The central Al-Qassim province has more than 8 million date palm trees. The trees produce a large amount of agricultural waste including dry leaves, stems and seeds. "A quarter of the date palm is waste and many of the farmers burn that waste, which of course produces CO₂ emissions and harms the environment," says Alyahya. "We are really concentrating on how to convert this waste to energy."

An international group of researchers, including scientists from Iowa State University, is investigating how the latest technologies can turn the waste into renewable energy forms like biomass, bio-oil and biogas.

The researchers are using the new technique of autothermal pyrolysis, developed by Iowa State University's Bioeconomy Institute. The process is simpler and cheaper than conventional pyrolysis and does not require an external energy source.

"If we achieve this goal to convert the waste of date palms into energy, Saudi Arabia will have a reduction of almost 8,000 tonnes of CO₂ emissions," says Alyahya. "We will stop burning the waste of agriculture and at the same time create richer products."

Solar power research is another focus for Qassim University. Dr Muhannad Alaraj, an assistant professor in the university's Department of Electrical Engineering, is exploring how photovoltaic panels can transform light into power.

"We are investigating the economic effectiveness of PV panels in the Al-Qassim region. We're also studying the effect and forecasting for those PV panels and we currently have a small PV system from which we are collecting the data," says Alaraj.

"We have to consider the weather conditions and meteorological parameters. This is really important because in our region we have mostly sunny days, but sometimes there are sandstorms or clouds. We are trying to see the effect of this weather on PV panels. This will be really helpful to build a model to predict or estimate how much power or energy we will get from this PV panel each day."

As one of the world's most water-scarce nations, Saudi Arabia also needs innovative ideas for renewable water sources.

Dr Saleem AlSaleem, from the College of Engineering, is working on water and wastewater treatment, such as greywater treatment and using solar energy to treat saline water. His team is also developing solutions for solid waste management and tackling noise pollution.

AlSaleem is a member of the university's Sustainable Development Centre, which oversees Qassim's progress in its sustainability initiatives. The centre runs four greening projects, focusing on the curriculum, the campus, research and the university as an organisation.

AlSaleem and his colleagues say collaborating within and outside the university is important for a successful research project. Qassim's scientific research deanship has launched a number of international cooperation grants and encourages faculty members to apply. "We can improve our work by encouraging collaboration," says AlSaleem. "I am working with water companies and municipalities inside Saudi Arabia, and we also collaborate with researchers outside the country. For example, I am working with one professor in Malaysia and another in Italy."

The university's future research into sustainable developments will be boosted by a recently announced research chair for artificial intelligence. The chair will fund studies into AI across the university, including in agriculture and engineering.

"I'm currently working with five teams to see the role artificial intelligence can play in agriculture and renewable energy," says Alyahya.

Qassim University's applied research safeguards food security and livelihoods

<https://www.timeshighereducation.com/hub/qassim-university/p/qassim-universitys-applied-research-safeguards-food-security-and-livelihoods> [13]

Collaboration helps researchers share agriculture solutions with the Middle East and globally

Known as the "food basket" of Saudi Arabia, the survival of Al-Qassim province depends on its agriculture. Crop and animal production drive the province's economy and provide livelihoods and food security to millions of people in the kingdom and the Middle East.

Practical scientific research is crucial to maintain the health and output of the province's agricultural sector, say researchers at Qassim University. Research within its College of Agriculture and Veterinary Medicine looks to find solutions to the diseases threatening local crops and animal herds, while academics push to share their knowledge with others in the Middle East and globally.

Camels and dates drive Al-Qassim province's economy, says Professor Ahmed Ali, a professor of veterinary medicine at the university. "Camels are important as a source of meat and are also considered part of the Middle East's cultural heritage," says Ali, a camel fertility specialist.

There are about 1.6 million dromedary camels within the Arabian Peninsula, more than half of which are found in Saudi Arabia, according to the United Nations' Food and Agriculture Organisation.

However, camels suffer from diseases that threaten their fertility, and thus the livelihoods of herders, Ali says. One example is chlamydia, a bacterial infection that causes reproductive problems in camels. Qassim University's veterinary hospital, the largest in the country, sees between 100 and 150 camels a day, and a third of the hospital's camel cases are affected by the bacterial infection.

"Surgical treatment is limited, so we are searching for a vaccine to prevent the occurrence of the disease," Ali says. In collaboration with researchers in Egypt, Oman, and Qatar, Qassim University is working to isolate the chlamydia microbe and develop a vaccine.

In another project, Ali and colleagues linked male camel infertility to heavy metal toxicity. Cadmium, a heavy metal, is often a by-product of petroleum extraction, and researchers found traces of the metal in male camels suffering from infertility. Ali, who has been with Qassim University for 15 years, says: "Working in camel infertility is like a chain; once we solve one problem in the chain, we move on to the next problem."

Professor Fahad Alminderej, a chemist in the College of Agriculture and Veterinary Medicine, is also looking to solve a problem: how to make the most of Saudi Arabia's abundance of dates.

More than 8 million date trees dot the landscape of Al-Qassim province. In the first quarter of 2021, Saudi Arabia exported 142,000 tonnes of dates, according to the Saudi Press Agency.

“My project looks to use palms to create new products for the market that are useful for people,” Alminderej says.

Date vinegar, for example, is currently prohibitively expensive, and Alminderej is looking to develop a method to manufacture large quantities to enable its sale as a health food. The cellulose from the palm tree can also be used to make biofuel ethanol, and filters made from palm-derived nanoparticles can remove heavy metals from water. To realise these products, Alminderej is collaborating with colleagues in the university, as well as in Tunisia and Egypt.

Meanwhile, Professor Ayman Omar, a plant pathologist, is working to develop microbes that promote the growth and yield of greenhouse crops, such as cucumber and tomatoes. Omar and colleagues are isolating growth-promoting bacteria and fungi from the local environment in order to develop products for farmers.

“These microbes save money, are safe for the environment” and mean farmers are not dependent on mineral fertilisers, he says. Like Ali and Alminderej, Omar is also collaborating with researchers in other countries to further his research, namely in India and Egypt.

He hopes to have products ready to offer to farmers in the next year, as well as two scientific papers detailing their results.

While Qassim University researchers actively work to publish scientific papers, the main goal is to help farmers at home and abroad, ensuring that their crops and animals remain healthy.

[The Rector inaugurates the headquarters of the "Center for Sustainable Development" and directs the launch of the Award for Innovation and Environmental Excellence for Students](#)

<https://qu.edu.sa/content/news/880> [14]

His Excellency Prof. Dr. Abdulrahman bin Hamad Al-Dawood, Rector of the University, inaugurated the new headquarters of the Center for Sustainable Development at the University on Thursday, 24/8/1439 AH, and directed His Excellency during the opening to launch the Award for Innovation and Environmental Excellence for male and female students, and expressed his admiration for the sections of the headquarters, in which many requirements were taken into account in line with the nature of the Center's objectives, and he was briefed on the exhibits of wild seeds, treated water, types of wild firewood and healthy and clean vegetables "organic", which added to the headquarters a present mental attachment.

Al-Daoud met with the members of the Executive Committee and praised the achievements of the Center during the current year, including the preparation of conditions booklets for the implementation of the package of projects of the strategic plan of the University directly related to the development and investment frameworks in the Qassim region, hoping for the success of these projects, because of the continuous support received by the Center by His Highness and the membership of a number of prominent members from inside and outside the University, headed by His Royal Highness Prince Dr. Faisal bin Meshaal bin Saud bin Abdulaziz.

For his part, the Director of the Center for Sustainable Development, Mr. Ibrahim bin Saleh Al-Rabadi, stressed that one of the achievements of the Center is the establishment of the Voluntary Sustainability Unit, and pointed out that the Center received direct support from His Excellency the Director to establish a sustainable development award dedicated to university students, directed in several tracks, which will be announced at the beginning of the next academic year.

During the opening of the Center, the eleventh meeting of the Executive Committee was held, which touched on the scientific activities to be implemented in addition to the community services provided by the Center and field visits by the members of the Executive Committee to introduce the vision of the Center, its mission, objectives and initiatives in sustainable development, as well as discussion on the future projects of the Center.

Amir Al-Jouf honors two faculty members at the university for winning the Olive Research Award

<https://qu.edu.sa/content/news/1132> [15]

HRH Prince Faisal bin Nawaf bin Abdulaziz, Governor of Al-Jawf Region, honored the two faculty members of the University, Dr. Saleh Sulaiman Saleh Al-Huairini, Associate Professor of Pesticide Toxicity at the Department of Plant Production and Prevention at the Faculty of Agriculture and Veterinary Medicine at the University, and Prof. Dr. Mahmoud Mustafa Al-Azazi, Professor of Acarus at the Department of Plant



Production and Protection at the Faculty of Agriculture and Veterinary Medicine, for winning equally the Olive Research Award in Al-Jouf, during the Twelfth International Olive Festival in Al-Jawf Region, which was held at the Prince Abdulelah Cultural Center in Sakakah, On Wednesday 19/5/1440 AH.

The winning research aimed at the biological control of Acarusian pests that infect olive trees using one of the local predators registered in the Kingdom of Saudi Arabia, where biocontrol is one of the most important means of integrated pest management, which is characterized by the elimination of pests without resorting to the use of chemical pesticides, the use of which randomly leads to pollution of the environment, as well as its impact on natural enemies and other negative effects on non-target pests.

According to specialists and experts, the research is of great scientific and applied value to those interested in organic agriculture, and the production of a safe and clean agricultural crop away from the residual impact of pesticides, as this goal is the modern trend in pest control globally.

His Excellency the President of the University: 7 years full of honorable achievements internally and externally

<https://qu.edu.sa/content/news/2655> [16]



His Excellency Prof. Dr. Abdulrahman bin Hamad Al-Dawood, President of the University, in his name and on behalf of the employees and students of the University, congratulated the Custodian of the Two Holy Mosques King Salman bin Abdul Aziz on the occasion of the seven-year anniversary of his assumption of the reins of power as King of the Kingdom of Saudi Arabia.

Al-Daoud stressed that the Day of Remembrance of Allegiance is one of the glorious national days in which we consolidate loyalty and belonging to our wise leadership and our dear homeland, pointing out that these years were full of honorable achievements internally and externally, during which the Kingdom achieved a comprehensive renaissance represented in the qualitative achievements that confirm that it is on the right path in terms of planning, implementation and review, which was reflected in the internal renaissance that achieved advanced levels in the multiple programs of Vision 2030. The internal success is paralleled by the external success of strengthening the Kingdom's position among the influential countries at the global level.

His Excellency the President of the University said that on this precious occasion we have loyalty and loyalty to the Custodian of the Two Holy Mosques, his faithful Crown Prince and this great homeland that embraces the holiest spot on earth and seeks to achieve major goals that make every citizen and resident live a decent life of high quality, stressing that the state - may God protect it - supports its multiple sectors to achieve this goal, pointing out that the education sector at its various levels is one of the most important sectors to which he - may Allah protect him - support and encouragement.

Al-Daoud explained that under this unlimited support many honorable achievements have been achieved, and it had a direct reflection on Qassim University, which has become one of the distinguished universities academically, research and administratively, pointing out that it is now considered one of the highest category in the evaluation of stars from the QS International Rating Organization, where it obtained the five-star category for its academic excellence.

He added that the university also entered the ranking of emerging international universities achieving an advanced rank according to the Times International Rankings, and it continues to accredit its academic programs progressively from the Education and Training Evaluation Commission in the Kingdom, in addition to its contributions to the service of society and influence it through programs, activities and events, pointing out that the university has culminated in the renewal of institutional accreditation until 2027 as the third Saudi university to achieve this achievement.

On this occasion, Al-Daoud congratulated all the Saudi people, calling on Allah Almighty and Allah Almighty to protect the leader of our modern renaissance the Custodian of the Two Holy Mosques and His Highness the Crown Prince Al-Amin, and help them to move forward with the sons and daughters of this dear homeland to achieve hopes and aspirations and continue to grow and prosper, and to preserve our soldiers and heal their wounds and cover with the breadth of his mercy their dead.

[HH the Deputy Amir of Qassim congratulates the university on receiving the highest star rating from QS](https://qu.edu.sa/content/news/2630)

<https://qu.edu.sa/content/news/2630> [17]

HRH Prince Fahd bin Turki bin Faisal bin Turki bin Abdulaziz, Deputy Governor of Qassim Province, congratulated His Excellency Prof. Dr. Abdulrahman bin Hamad Al-Daoud, President of Qassim University, and all university employees, on the occasion of the university receiving new international recognition by the international QS (QS) through the star rating system for institutions and establishments for achieving the highest category (5 stars).

His Highness said that this achievement reflects the efforts of the university to raise the quality of what our male and female students receive from academic axes concerned with programmatic and institutional quality, asking the Almighty to help you to achieve the aspirations of Moulay Custodian of the Two Holy Mosques King Salman bin Abdulaziz, and His Royal Highness Crown Prince Mohammed bin Salman bin Abdulaziz, may God protect them.

His Excellency the Rector inaugurates the First International Conference on the Sustainability of Natural Resources

<https://qu.edu.sa/content/news/1531> [18]

H.E. Prof. Dr. Abdulrahman bin Hamad Al-Daoud, Rector of the University, stressed that achieving environmental sustainability is one of the most important pillars of the Kingdom's Vision 2030, in order to raise the efficiency of waste management and reduce pollution, as the Kingdom as an active member of the international system, especially in the Group of Twenty, which seeks to achieve the United Nations goals of sustainable development, pointing out that the issue of waste management is linked to a number of UN goals, including industry, innovation, infrastructure, sustainable cities, sustainable production and consumption, as well as reducing climate change.

This came during the patronage of His Excellency the Rector of the University, for the First International Conference on the Sustainability of Natural Resources: Sustainable Management of Solid Waste, which began on Tuesday morning, 8/3/1441 AH, and which is organized by the Faculty of Engineering at the University and the Center for Sustainable Development, at the headquarters of the main lobby in the University City for men, and for women in the theater of the Faculty of Economics and Management, over two days with the participation of 36 speakers to cover all the axes and objectives of this scientific meeting, which aims to discuss the necessary measures to transform into sustainable food systems.

Al-Daoud added that the university seeks to achieve sustainability through its centers, research and scientists, through a system of integration and cooperation between its units, educational and research programs, thanking the sponsors of the conference, the Qassim Municipality, and all contributing sectors inside and outside the university.

His Excellency the Rector also inaugurated the exhibition accompanying the conference, in which 6 government and private entities participate, including a corner for the Qassim Municipality, a corner for the College of Engineering, a corner for the Center for Sustainable Development, a corner for the City Cement Company, the Cleaning Machinery Factory Company Ltd., and the Fahad Company, and witnessed the signing ceremony of a memorandum of cooperation between the Faculty of Engineering at the University and the City Cement Company.

For his part, the Chairman of the Organizing Committee of the Conference, Prof. Dr. Khalid Bani Al-Harbi, Vice President for Planning, Development and Quality, spoke about the importance of this conference, which comes in harmony with the University's sense of its strategic role in the Kingdom in general and in the region in particular, and as an embodiment of the aspirations of the Kingdom emanating from its Vision 2030, which gave great importance to the economic fields and the areas of quality of life, pointing out that the University has adopted a number of academic activities to embody this role, the most important of which is this type of scientific meetings, in addition to supporting research in This field and the inclusion of sustainability concepts in the courses of academic programs,

and recently the launch of the sustainable university project supervised by His Excellency the Rector of the University and under the patronage of His Royal Highness Prince Dr. Faisal bin Meshaal bin Saud bin Abdulaziz, Amir of the region.

Al-Harbi added that the Organizing Committee has held more than 12 lengthy meetings to prepare for the conference, while the meetings of the other executive committees exceeded more than 30 working meetings, 19 of which were for the Scientific Committee, and the working hours of the preparatory team amounted to more than 150 working hours, and the working group included more than 36 members, and this work resulted in the participation of more than 15 countries with 168 participants, and more than 120 scientific papers were arbitrated.

Al-Harbi explained that the organizing committee and those in charge of this conference, which is dedicated to sustainability concept and research through participants and interested parties, decided that the conference should go beyond this to be sustainable even with an organizational printer, offering thanks and appreciation to partners for success represented by the strategic partner City Cement Company, the silver sponsor Al-Fahad Company, the supporting sponsor of the Qassim Municipality, and the parties cooperating with the conference, which comes at the forefront of which is the Ministry of Environment, Water and Agriculture represented by the Environment Agency and the Ministry's branch in the region represented by His Excellency Eng. Salman Al-Suwaina, as well as The General Directorate of Education in the region is represented by His Excellency Mr. Saleh Al-Jasser for their constructive cooperation to make this conference a success.

After that, the Dean of the Faculty of Engineering, Dr. Meshal bin Ibrahim Al-Mushaiqah, said that the Faculty of Engineering at the University attaches great importance to the topics of sustainability of natural resources for their specialized nature, to be one of the most important arms of the University to achieve this lofty purpose next to the relevant specialized authorities from colleges and other units, the most important of which is the Center for Sustainable Development at the University, as a partner in the organization and incubator of the conference with the College in the establishment of this qualitative international forum.

He pointed out that the conference aims to show the size of natural and economic resources wasted and estimate the environmental cost of waste, as well as discuss the necessary measures to transform into sustainable food systems where waste is reduced and food waste is reduced, in addition to stimulating integration between partners from different disciplines to manage waste in a sustainable manner, studying opportunities to stimulate investment in the development of waste recycling technologies in the Kingdom, and studying the obstacles to investment in the field of waste manufacturing industries, through several axes discussed by the conference, namely: Effective management, valued food and responsible citizen, attractive and ambitious investment, and a cohesive team to protect and sustain the environment.

The organizers of the conference seek to contribute to the preparation of a vision on sustainable solid waste management at the national and global level, through the participation of a number of experts, academics and specialists from 15 countries in this field and discuss the results of the latest studies, research and scientific papers related to sustainable solid waste management through 6 sessions throughout the two days of the conference, in order to reduce the per capita consumption rates in the Kingdom of Saudi Arabia of some goods and services, which come within the highest rates globally, which increased the volume of solid waste generated, Reducing the depletion and degradation of natural resources due to high consumption rates, and transferring and localizing modern international technologies in the field of waste management in accordance with the conditions of the Kingdom.

The Dean of the College of Engineering added that the conference also seeks to address the challenges arising from waste, which is the responsibility of each member of society, raise community awareness of the risks posed by waste generation, encourage initiatives aimed at improving sustainable waste management, and provide an opportunity to exchange experiences and knowledge among specialists in waste management and sustainable development.

Hence, the speech of the sponsors was delivered by the Executive Director of City Cement, Mr. Majid bin Abdulrahman Al-Assilan, in which he stressed the existence of millions of tons of municipal waste estimated at billions of riyals, which contain organic and inorganic materials of foods and yes God love this blessed country and other materials that could have been recycled and converted into energy to achieve added value to the homeland, but unfortunately they end up in landfills, which is a kind of waste and contradicts our Islamic values and teachings. to the negative environmental impacts resulting from the backfilling of waste in the ground, some of which take more than 100 years to decompose in nature.

Al-Osailan pointed to the risks of leakage of some harmful substances from those residues to the soil and groundwater or the risk of fires, pointing out that most of the developed European countries such as Germany, the Netherlands and Belgium have a total amount of waste destined for landfills is almost zero, where no waste is backfilled and if necessary a very high fee is paid on the landfill to reduce these practices and protect the environment, by replacing the use of petroleum fuels with renewable energy and primitive fuels, offering sincere thanks and appreciation To all colleagues at the university and those in charge of this conference, for their blessed efforts and for what will contribute to achieving the directions of our wise government of raising awareness regarding the environment and sustainability, supporting coordination between the public and private sectors, and contributing to the achievement of the Kingdom's Vision 2030 to place the Kingdom in the ranks of developed countries.

For his part, the Director of the Center for Sustainable Development, Mr. Ibrahim bin Saleh Al-Rabadi, spoke about the vision of the Center for Sustainable Development at the University for sustainability through the adoption of a balanced integrated approach to achieve equitable development between regions and generations, each takes his right and each carries out his duty towards his environment, society and economy to complete the three clusters of sustainability, and sustainability addresses the issue of waste in its physical, technical, social, technical, informatics, financial and economic dimensions.

Al-Rabadi explained that waste management is linked to a number of UN goals, especially the ninth goal, which is industry, innovation and infrastructure, the eleventh goal related to sustainable cities, the twelfth goal on sustainable production and consumption, and the thirteenth goal, which is concerned with reducing climate change, and it is hoped from this conference to seek to diagnose problems accurately and develop appropriate solutions by scientists and experts gathered, and we hope that the objectives of this conference will be achieved and its recommendations translated into useful practical projects.

The conference witnessed the presence of the Vice President of the University, Dr. Mohammed Al-Saawi, the Vice President for Educational Affairs, Dr. Mohammed Al-Odaib, the Vice President for Graduate Studies and Scientific Research, Prof. Dr. Ahmed Al-Turki, Eng. Salman Al-Suwaina, Director of the Branch of the Ministry of Environment, Water and Agriculture in Qassim, Mr. Saleh Al-Jasser, Director of the Department of Education in the Qassim Region, Eng. Abdulmohsen Al-Faraihi, Director of the Directorate of Water in Qassim, Eng. Abdulaziz Al-Saleem, Deputy Secretary of the Qassim Region, and the deans of the faculties, faculty members and students at the University.

Annual reports About Sustainability

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