

SUSTAINABLE DEVELOPMENT

Report

2020



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RECTOR'S WELCOME

King Faisal University abounds with multiple resources that enable it to excel and pioneer at the national and regional levels in a way that befits the university's ancient history and its long heritage of giving. As we experience this huge transformation in our national development process, the time has come to invest and build on these multiple resources to ascend with the university's aspirations to broader horizons based on its platforms of well-established scientific structure and lofty research institutions.

With our ambitious vision - we at King Faisal University have determined to contribute in solving challenges facing the world associated with food security and environmental sustainability that are aligned with the United Nation Sustainable Development Goals.

We focus on achieving these goals through our core operations by improving the teaching, learning and scientific research processes, strengthening our community partnerships, and establishing our innovation and business development sector. I am fully confident that during the next few years, the university will achieve more gains and will have a great effect on the internal and external communities.

I am also sure that the university has sufficient flexibility and qualified human capabilities that cope with future changes and developments enabling us to amend our plans accordingly.

It is my pleasure to put in your hands some of KFU effort towards achieving the sustainable development goals.







KFU is committed to provide assistance to local start-ups and become entrepreneurs in collaboration with number of local institutions like Monsha'at and and the Saudi Authority of Intellectual Property through hosting workshops, seminars, lectures covering a variety of business and entrepreneurship areas such as digital marketing, cyber security, and venture capital. through its business incubator, KFU helps start-up companies and entrepreneurs to develop their businesses by providing a range of services starting with a comprehensive business training and office space and ending with a financing event where entrepreneurs got connected with investors funding institutions.

Engagement

Through the Student Fund, King Faisal University seeks to support low-income students by providing students with financial stability. The Student Fund provides financial aid and loans to students. It also provides financial support to students through the Student Employment Program, which aims in addition to refining the various skills of students.







Research

Battling food losses and waste in saudi arabia: Mobilizing regional efforts and blendingindigenous knowledge to address global food security challenges

Al-Khateeb, S.A., Hussain, A., Lange, S., Almutari, M.M., Schneider

bringing together a wide range of perspectives on Food Loss and Waste (FLW), by multi-stakeholder engagement in order to enhance cooperation and network building with respect to sharing knowledge and experiences on FLW prevention activities along the entire food supply chain for a country located at the geographic frontier facing stubborn challenges of desertification, water scarcity, and harsh climatic conditions. we provides insights into the current status of FLW by revealing that, overall, 33.1% of the total available food in the Kingdom is lost and wasted during the entire food supply chain. Overall, the Gulf Cooperation Council (GCC) countries witnessed higher percentages of food waste compared with food losses. Environmental conditions prevailing in the region necessitate the development of adequate and appropriate cold chain storage facilities for

balanced distribution through cold storage transportation facilities along the food supply chain to minimize food losses. However, campaigns and activities to raise awareness with a view of changing attitudes towards reducing FLW by the adoption of good practices, promoting the concept of circular economy practices, and the establishment of food banks for surplus food redistribution are important to mitigate FLW in the Kingdom.

Engagement

King Faisal University has launched an unparalleled institutional identity, making the contribution to achieving food security and environmental sustainability for the Kingdom of Saudi Arabia a strategic option. The adoption of food security significantly impacted the whole university. Within a year, several remarkable achievements have been accomplished. one of the achievements is coming up with some sustainable food products. As dates are one of the main local agricultural crops, it was smartly used to produce several products as part of enhancing food security nationally. The image below shows a sample of the date seed product.





Ensure healthy lives and promote well-being for all at all ages



Teaching

Through KFUs extensive active and transformative learning and teaching activities, students acquire the knowledge and skills needed to promote health. Its mission of futuristic education ensure students to have relevant skills for future employment, decent work for sustainable economic growth. Cross cutting graduate attributes are embedded as learning outcomes in courses to equip students to become effective health implementers. Examples of KFU courses with integrated outcomes and approaches that develop understanding of health concept.

COURSE

ENVIRONMENT

AL HEALTH

NUTRITION STRATEGIES

FOR HEALTH AND

WELLNESS

Learning Outcome related to the heath

Apply the primary strategies used to evaluate, recognize hazards

COMMUNITY NUTRITION

INTER-PROFESSIONAL EDUCATION, **COMMUNICATION AND** COLLABORATIVE PRACTICE

> NUTRITION **EDUCATION**

GLOBAL HEALTH AND DEVELOPMENT

MODERN BIOTECHNOLOGY and methods to reduce or control environmental health risks.

Prescribe an evidence-based intervention and practical advice to promote healthful eating.

Conduct an assessment of the community to identify and evaluate data needed to make decisions regarding community nutrition

Demonstrate shared leadership skills and team spirit when collaborating with other health team members.

Describe the role of nutrition education programs in health of the community.

Assess epidemiologically the major health problems and the national and international approaches to dealing with these

Describe the adverse effects and benefits of modern biotechnology important in protecting human health and

Engagement

King Faisal University has launched a program to promote the wellness of its students and staff. This program has four paths of promoting the wellness of KFU's students and staff, physical health path, mental health path, social health path, and financial health path. Each path provides a collection of services and organizes relevant educational events.







Teaching

The aspiration of quality education in all academic programs at KFU is clarified in their mission and goals. Some key features of KFU academic programs that demonstrate the quality of education are:

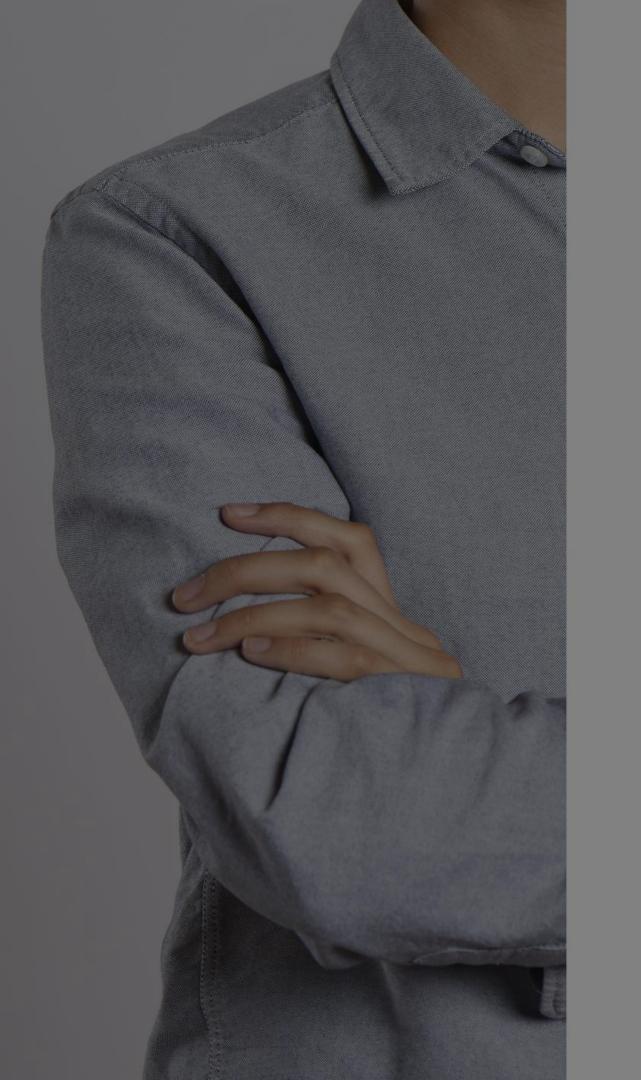
- Providing students with professional, employability, and personal knowledge and competence for meaningful contribution to the society. The "futuristic education" mission component of KFU has framed teaching future-ready skills that employers want and need.
- Learning and teaching methodologies that are research driven and have significant practical community and service learning integration. Methodologies are fostered such as the PBL and service learning of the medical programs, the cooperative training of the computer science, business, science, agriculture and education programs and the use of full digital technologies in delivery approaches across programs.
- Providing faculty with trainings relevant to teaching and seminars to broaden their content expertise relevant to teaching.
- Connecting with focus industries to expand educational access and opportunities. All academic programs have collaborations with industry sectors which provide avenue for transformation of learning in classroom to learning in workplace.
- Seeking local and international accreditation for comparability and reputation.

Engagement

At KFU, we believe that community engagement is a key role of the university. One of the services that we provide to the community is the education in all its shapes and forms. We exploit our highly qualified human resources to teach and train people who are not attending the university in all different disciplines.











Achieve gender equality and empower all women and girls

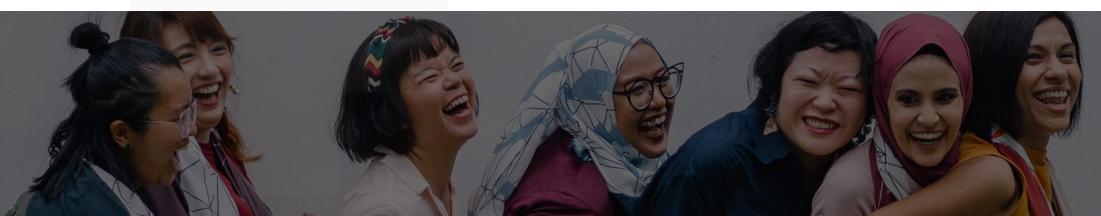
KFU is keen to achieve gender balance and equal opportunities in all aspects such as employment, admission, and training. One of the major focuses for the past few years was to pay more attention to enhancing the role of women in appointments, administrative assignments and representation in higher committees and councils to ensure an appropriate gender balance.

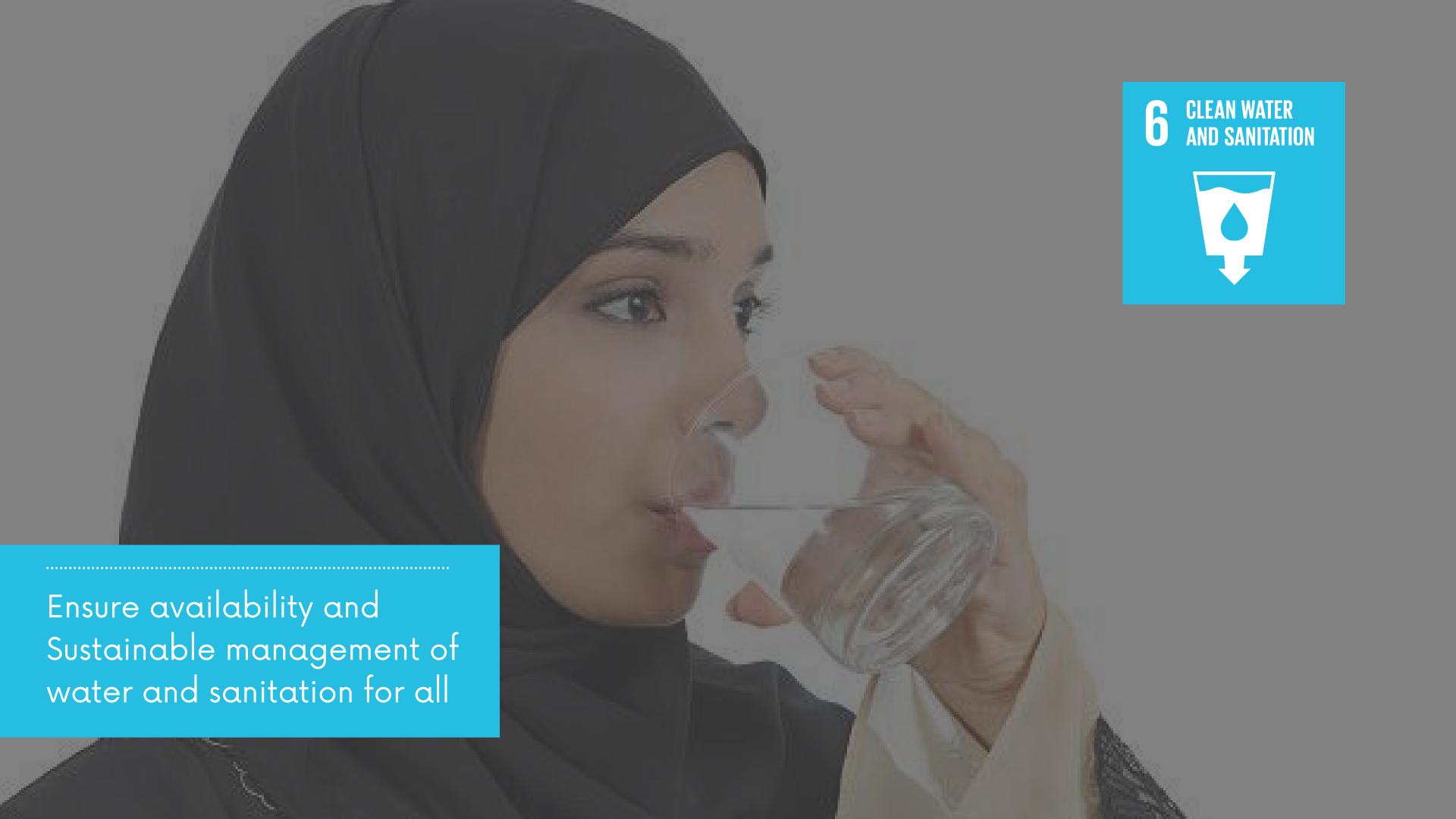
During its restructure, the university has established a unit that aims to contribute to the development and enhancement of the women's capabilities, "The Women's Development Unit". The role of the unit to provide support and help services for women inside the university and outside in the local community through several activities. It also organizes training programs, events, seminars in areas that are related to women. The establishment for this unit has been assuring for female students, staff, and women in the local community.











King Faisal University works to preserve water resources, since water sources in the Kingdom are scarce. In 1980, a center for water studies was established at the university. It is one of the research centers specialized in conducting research related to water resources in terms of sources, quantity and type, and providing consultations and training courses. The university's adopted policies are based on preserving water resources in an effective and efficient manner. The university also promotes the conscious use of water on campus, especially with regard to not wasting water. The university works to treat all wastewater and use the treated water to irrigate vegetation and other uses other than drinking water. The university also provides free drinking water to all its members.

Engagement

KFU in cooperation with the Ministry of Environment, Water and Agriculture has demonstrated through tangible projects its capability of solving issues not only in Al-Ahsa but goes

beyond that to cover the entire Kingdom. Among these projects were initiatives that aimed to spreading best practices and clean agricultural methods such as organic agriculture and other consequence initiative related to vertical agriculture. One of the projects is the vertical farming in the Kingdom. Vertical farming has shown to have some major benefits. There are several advantages of vertical farming include the year-round crop production, minimizing the use of water in cultivation, and increasing the production of organic crops. Vertical farming is just an example of the contribution that our identity projects can make to the Kingdom and consequently the entire world. Those efforts have ultimately led to a sustainable agricultural sector that achieves optimal exploitation of natural resources and hence improve people's lives.







Goal#6



The university's contribution to the problems of pollution and climate change, as the university contributes to the formation of sustainable societies through various practices and activities, as well as commitment to sustainable environmental policies. This can be seen through the support provided for the transition and use of renewable energy, the use of clean means of transportation within the campus (electric cars), the practices of saving electric energy through the many policies implemented in the university from the use of optical/kinetic sensors, the replacement of lighting lamps to lamps with low consumption (LED), and encouraging university employees to rationalize behaviors using energy.



Engagement

 cooperation agreement between King Faisal University and King Salman City for Energy

King Faisal University has signed a cooperation agreement with King Salman City for Energy "SPARK" to work together on a number of projects. The agreement included work on designing and implementing educational programs by the university in the areas of the energy system, and working on developing studies and providing consultations by the university for the benefit of Spark in the areas of the energy system, specifically in renewable energy and energy network distribution, vegetation cover and environmental sustainability, sand encroachment, and irrigation

Assistance for start-ups that foster and support sustainable energy

The innovation & Entrepreneurship Center (IEC) at KFU contributes towards the achievement of sustainable cities and communities through supporting start-ups and ideas that promotes sustainable and clean energy. The IEC give a superior priority for this type of start-ups and projects to be enrolled in its business incubator

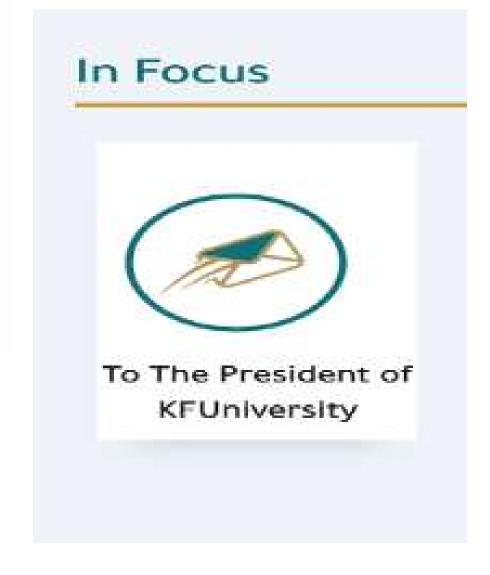




Engagement

King Faisal University is keen to apply the best institutional management practices. This includes equivalent payment for women and men, equivalent teaching load for academic staff, equivalent job opportunities and gsecured contracts. In order to satisfy its employees and so that there is no room for a sense of unfairness within the university, the university has recently launched an electronic system "to the President of KFU", in the main page of the university website. All university staff, employees, and students can file any complaint directly to the President of the university to take the necessary action regarding it.





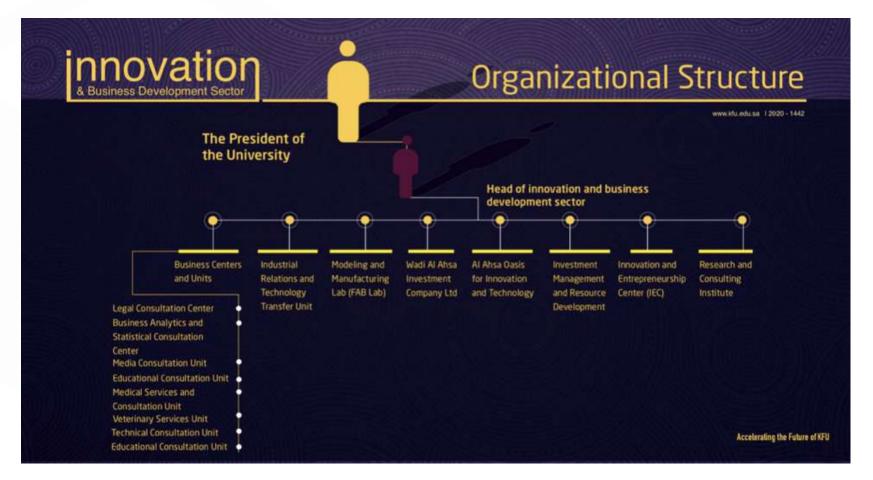


King Faisal University has directed its compass towards empowering its economic potential and designing investment vision & systems that eventually accelerate its future. This direction has resulted in establishing a newly promising Innovation and Business Development Sector at the beginning of 2020. The new sector is set to be the university's fifth sector in addition to its functional sectors, represented in the Academic Affairs Sector, the Research Sector, the Community Engagement Sector, and the Administrative and Financial Sector. The establishment of the new sector is seen as an initiative made by the university's leadership team to ensure the realization of its vision through:

- Diversifying the University's income sources.
- Attaining a high level of financial sustainability for the University.
- Investing in knowledge, research, science and technology.
- Appreciating the economic value of the University's assets and capabilities.

In addition to its general goals, the establishment of the Innovation and Business Development Sector has directly influenced the way in which people think, has facilitated their inspiration, ideation, and implementation

capabilities, as well as, creating a culture of open innovation within the university, by engaging students, faculty members, administrative leaders, and suppliers and experts in the process of innovation and business development. It also assists in building the capacity of KFU's people in utilizing methodologies that can support the development of enterprise, consult and master innovation processes as well as equipping them with the necessary skills to lead business and corporate level projects.







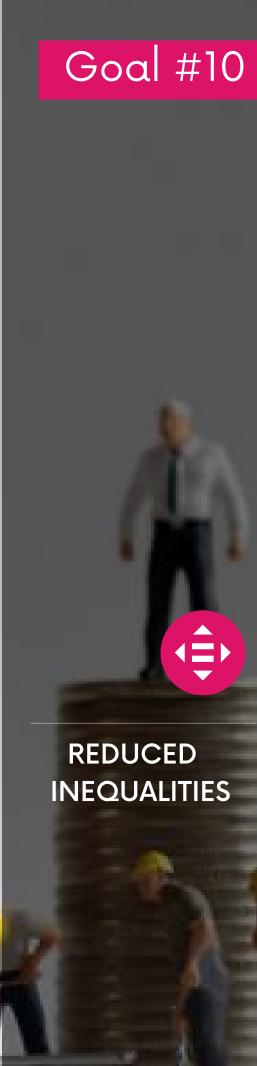
KFU has taken great care and efforts to confront social and cultural biases and ensure balance. The university worked to adopt the principle against social discrimination and paid special attention to supporting development policies that remove any obstacles for underrepresented groups. KFU has specifically sought to ensure equal opportunities and fair treatment in:

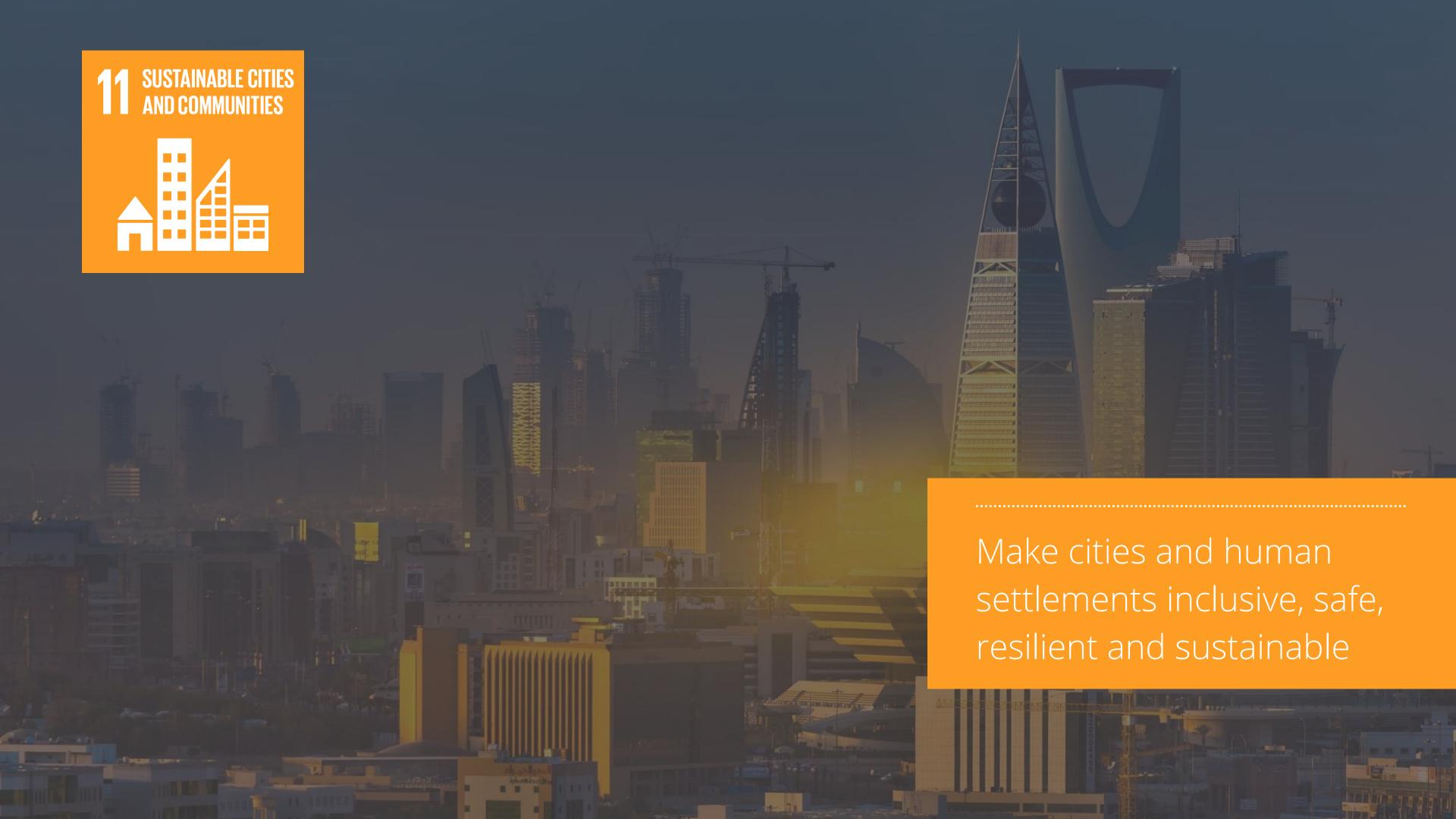
- Admitting students with disabilities and to prevent any form of exclusion or discrimination based on disability. It paid great attention to this category of society by establishing a special unit for them to provide them with the needed support.
- Accepting more international students. As the university believes in the right of education for all, it has worked to provide a free education opportunities for international students.
- Admitting more students from single parent families or raised in shelters.
- Tracking female students admission till it reached 64% in 2020.
- Taking special care of students with chronic diseases, cancer patients, and kidney failure.

Overall, the university made effective contributions to the advancement of society and the elimination of discrimination.









KFU is committed to achieving the sustainability through the projects and initiatives. One of the main projects in the KFU's strategic plan 2020-2024 is "Maximizing the environmental impact of the university campus". This project aims to enhance a sustainable environmental development of the University Campus and make it a model for reducing carbon emissions, water consumption and energy consumption in particular and a model for environmental sustainability in general. It also aims to maximizing the society's benefit from the university's facilities and services. This will be achieved through several initiatives that the university has already started such as projects that are related to increasing the vegetation, decreasing water and energy consumptions, and environmental friendly buildings inside the university campus.

Engagement

KFU is keen to achieve sustainability through motivating sustainable practices around the campus. several events and activities related to sustainable are organized weekly. Students and staff are encouraged to participate in those activities. The university also spreads awareness of sustainability through motivating messages and flyers.



Project No. (6-3): Expanding the scope of the community engagement system.

The project aims to expand the scope of the community engagement system and encourage voluntary initiatives.

Project No. (7-3): Enhancing the competitiveness of King Faisal University graduates.

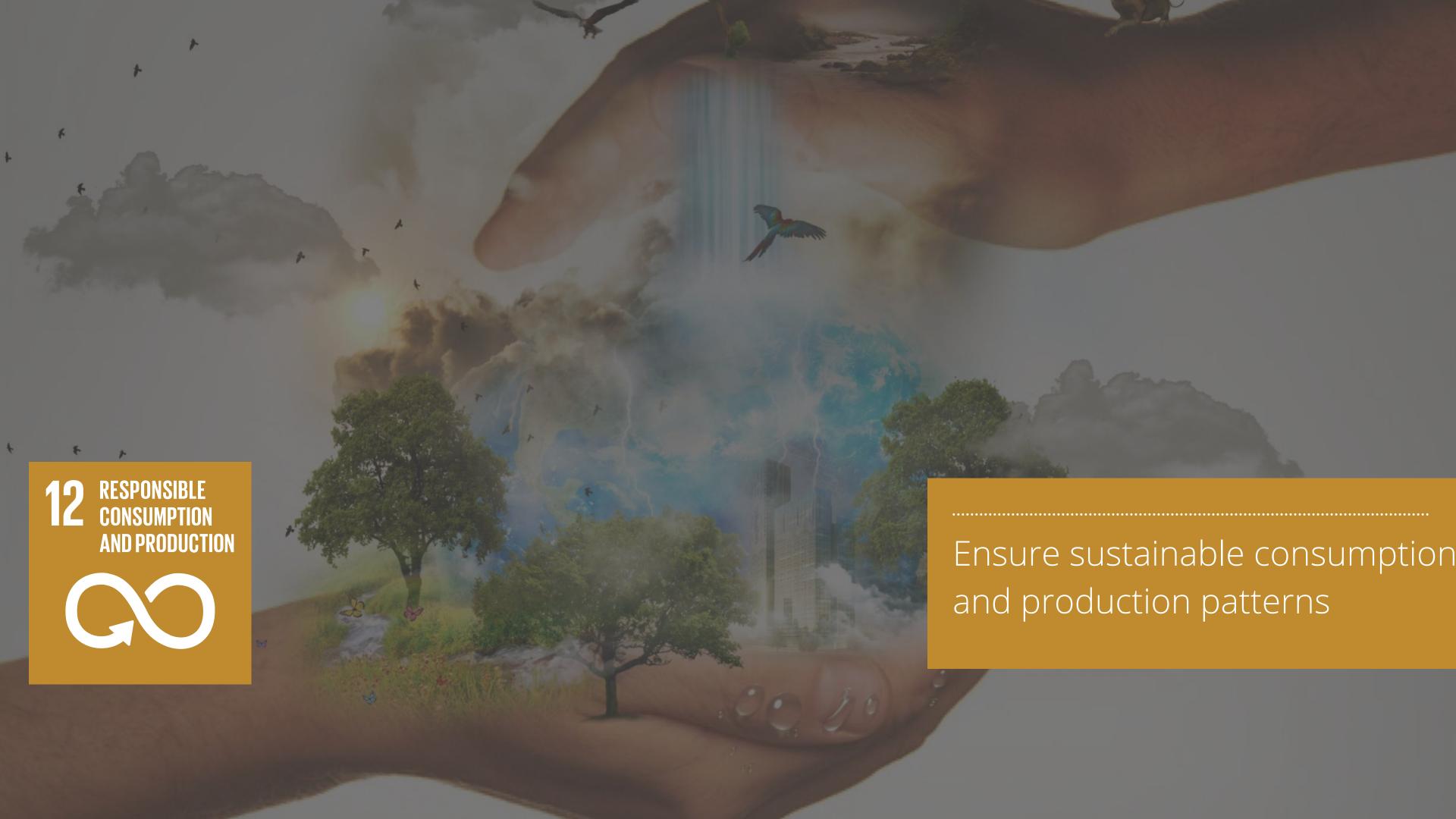
The project aims to support the course of national development and provide the Saudi labor market with its various sectors with distinguished capabilities, both quantitatively and qualitatively, in order to equip the university's graduates with the academic excellence, professionalism, and professional leadership skills.

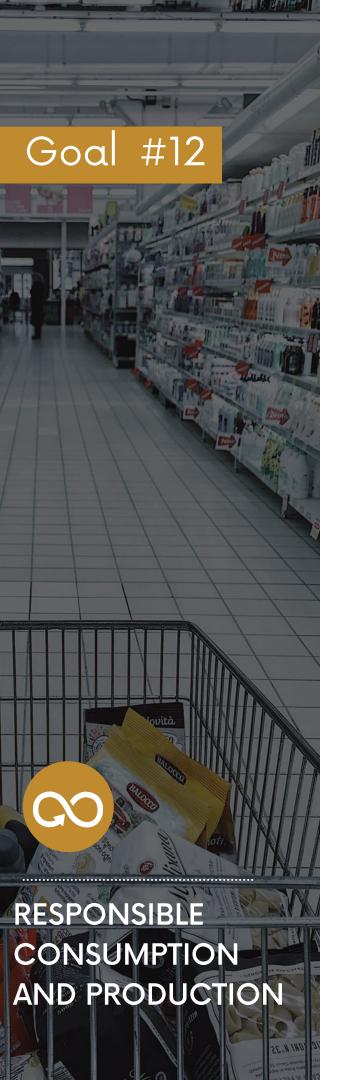
Project No. (8-3): Maximizing the environmental impact of the University Campus.

The project aims to enhance a sustainable environmental development of the University Campus and make it a model for reducing carbon emissions, water consumption and energy consumption in particular and a model for environmental sustainability in general.

Project No. (9-3): Developing the system of continual education.

Project description. The project aims to establish a system of continuing education for the university by providing a set of offers and digital educational products directed towards newly emerging majors and future technologies.





Based on its pioneering role and societal responsibility in raising environmental awareness in the community and limiting the expected damage to the environment from various industrial and community activities, KFU has established a new unit "The Environmental Protection Unit". Because of its role in community services and increased environmental interaction with a wide range of society segments, including industrial cities, this unit aims to safeguard and preserve natural resources while fostering sustainable development in order to protect the environment. The unit has recently licensed as a house of expertise by the National Center for Monitoring Environmental Compliance, Saudi Arabia.

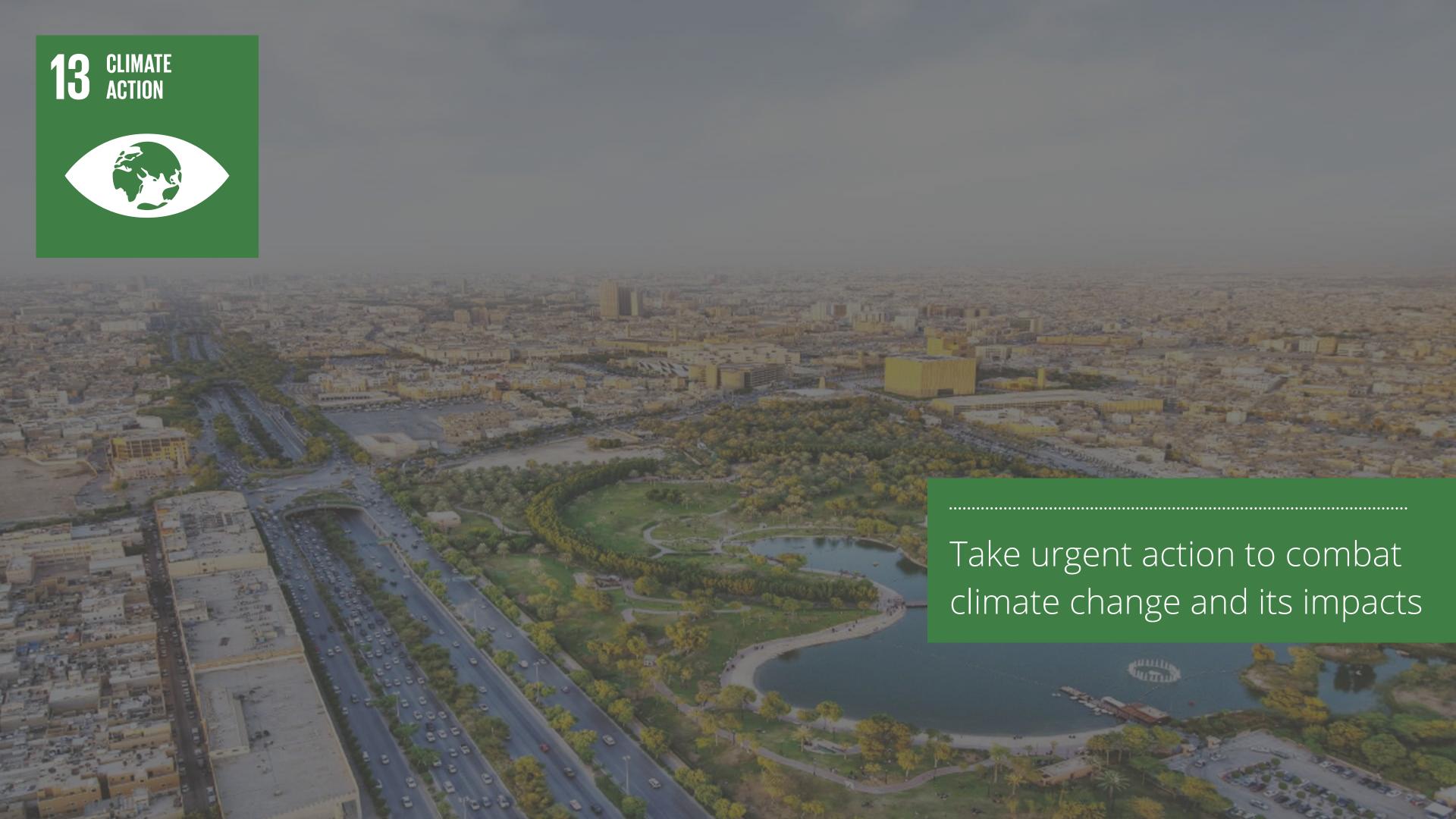
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In coordination with other university departments, the unit undertakes the followings:

- To protect the environment at the university and work to consolidate the name of the green university in word and deed in the university city and its affiliated facilities.
- To meet the requirements of the General Authority for Meteorology and Environmental Protection..
- To work with the relevant authorities at the university on the management and disposal of medical waste, animal waste, recycling, and reducing plastic use using the methods approved by the General Authority for Meteorology and Environmental Protection.
- To spread awareness of environmental friendly production and consumption around the university campus through educational lectures, activities, and training programs.

برعاية معالي رئيس الجامعة د. محمد بن عبدالعزيز العوهلي عمادة شؤون الطلاب ووحدة حماية البيئة بوكالة الجامعة للدراسات العليا والبحث العلمي تدعوكم لحضور فعاليات أسبوع البيئة افتراضياً





Under the KFU Strategic Plan 2020-2024 the project "Maximizing the environmental impact of the campus" is developed considering different environmental indicators, administration as well as associated stakeholders including students, faculty members and staff. The project is a part of overall plan starting with the commitment of the stakeholders of the King Faisal University, and developing policy and guidelines, and implementing of these guidelines. One of the key pillars of this project is eco friendly energy related initiatives. The university has already worked intensively to achieve some of the goals for this part of the project as follows:

Goal 1: Energy conservation in KFU campus

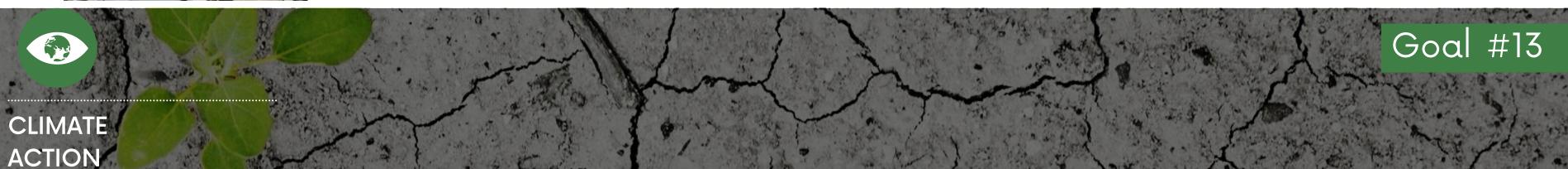
Goal 2: Initiatives to reduce energy usage

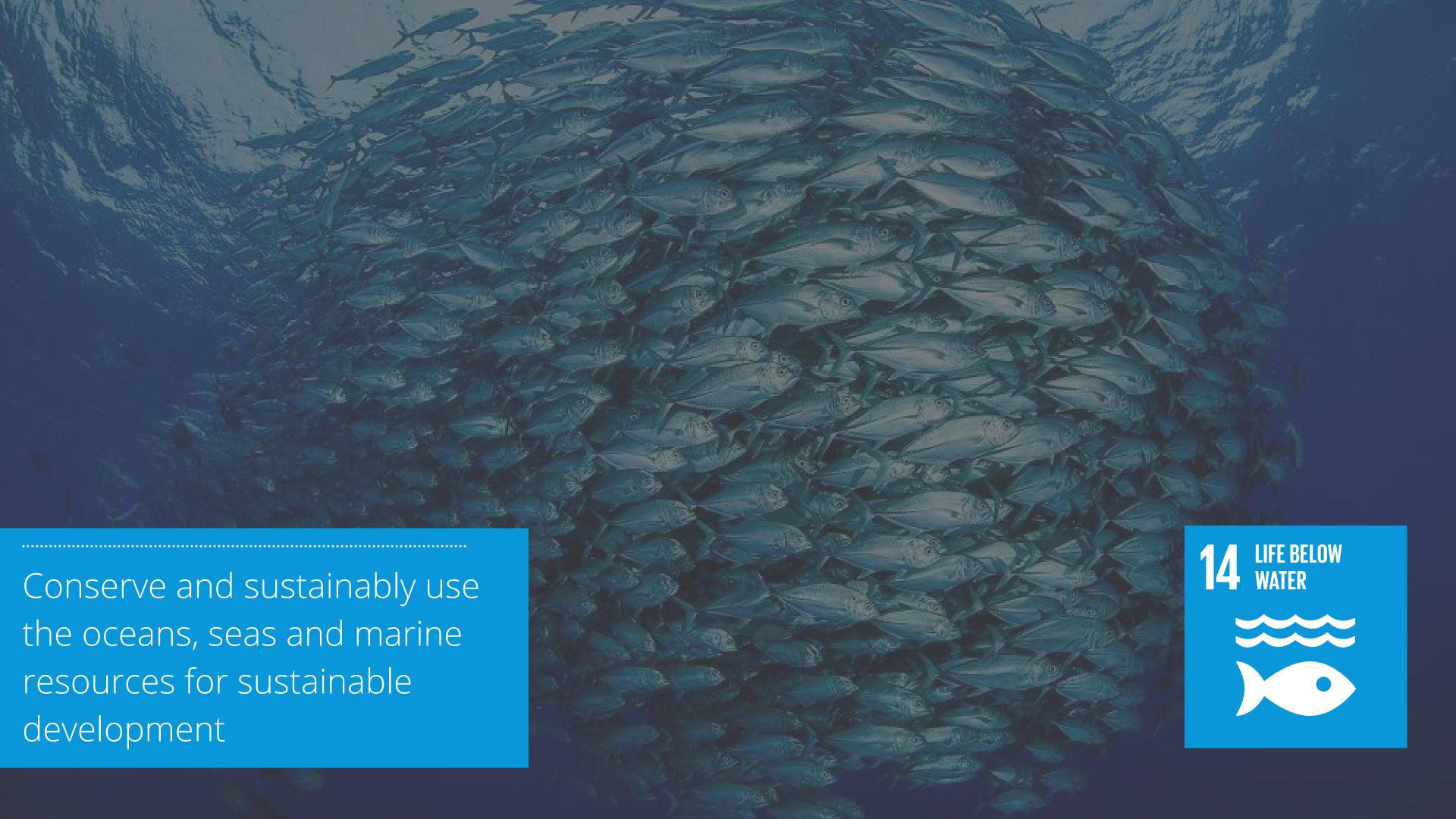
Goal 3: Initiatives to increase use of renewable energy





Category	Goals	Objectives	
Processes and Operations			
Energy	Goal 1: Energy conservation in KFU campus	Objective 1: Develop and implement an Energy Conservation Policy (ECP) Objective 2: Encourage energy- conserving behaviors among faculty, staff, and students Objective 3: Make public of the energy data and accomplishments	
	Goal 2: Initiatives to reduce energy usage	Objective 1: Evaluate energy savings due to Smart Building design and Building Management System (BMS)	
	Goal 3: Initiatives to increase use of renewable energy	Objective 1: Evaluate current and potential renewable energy sources in the campus Objective 2: Connect all existing solar photovoltaic system to the university's electrical system	





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Goal 1: Less generation of waste

Goal 2: Habituate to reuse and recycle

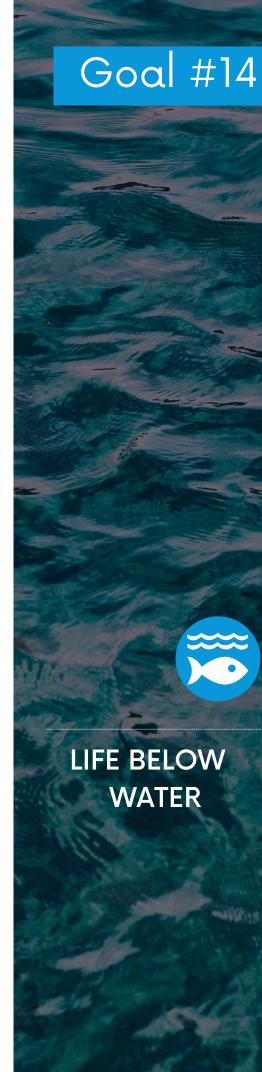
Goal 3: Apply sustainable practice

Category	Goals	Objectives	
Processes and Operations			
Waste	Goal 1: Less generation of waste	Objective 1: Reduce the use of paper towel Objective 2: Minimize waste in staff and faculty offices Objective 3: Minimize waste generated by students	
	Goal 2:Habituate to reuse and recycle	Objective 1: Implement Campus Waste Recycling Scheme Objective 2: Encourage participation in campus recycling programs Objective 3: Decrease use of disposable items in student canteen Objective 4: Design a cost-effective composting program for all organics recycling diversion	
	Goal 3:Apply sustainable practice	Objective 1: Implement Best applicable sustainable practice from benchmarked universities	

Engagement

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Under the KFU Strategic Plan 2020-2024 the project "Maximizing the environmental impact of the campus" is developed considering different environmental indicators. Several initiatives has already been implemented to achieve the objectives of this project. In terms of the land sensitive waste disposal, the university has the followings:

- A program that allows a separation of all types recyclables (plastic, paper, glass, aluminum) by specific containers. These containers are available inside and outside buildings. They then collected by a contracted company as shown in the pictures.
- A program for treating organic waste. For example, the parts of grass and trees are collected by a company and sent them to a government recycle program to produce organic fertilizers.
- A program for inorganic waste from our campus to government waste plant. The WEEE (Waste Electrical and Electronic Equipment) are also gathered separately and recycled.
- A management program for (solid/liquid/gaseous) hazardous waste that is directed by a service company in collaboration with the Faculties of Science and Medicines.
- An advanced wastewater treatment plant that is designed to treat sewage water.
 The produced water will be used for many irrigation needs, thus greatly reducing potable water demand for the University.

Engagement

KFU is keen to achieve sustainability through motivating sustainable practices around the campus. The university continuously organizes students campaigns that aim to motivate sustainable practices and protect the environment.







Goal #16

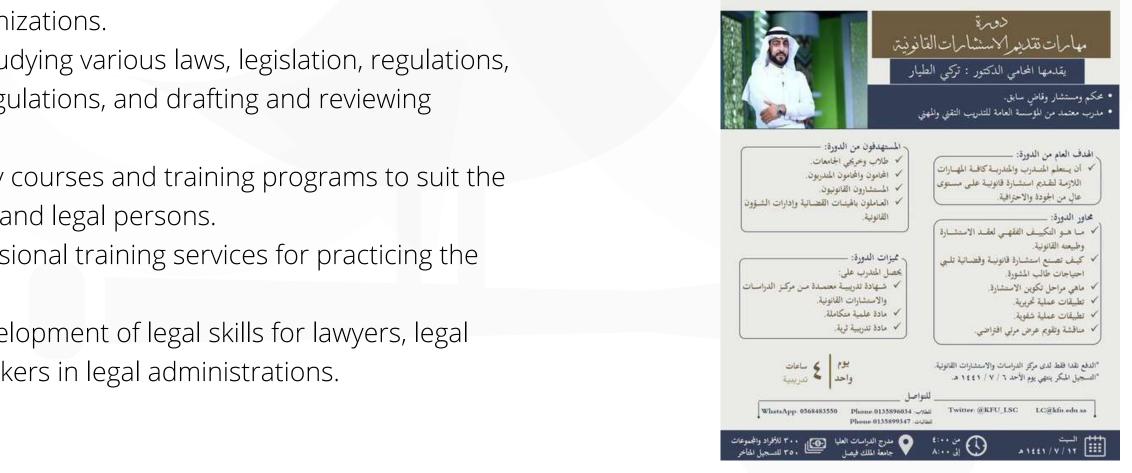


KFU has several houses of expertise that provide advice to local, regional, and national government. One of the centers that KFU has recently established is the Center for The Legal Studies and Consultations and Arbitration Services. This center provide a selection of services inside and outside the university campus. These services include:

- Expressing legal opinion in legal advice and amicable settlement of disputes.
- Arbitration in various cases.
- Conducting legal studies and research for natural and legal persons, government and private agencies, and national and foreign organizations.
- Preparing and studying various laws, legislation, regulations, decisions and regulations, and drafting and reviewing contracts.
- Organizing study courses and training programs to suit the needs of natural and legal persons.
- Providing professional training services for practicing the legal profession.
- Training and development of legal skills for lawyers, legal advisors and workers in legal administrations.









AND STRONG

INSTITUTIONS



KFU seeks to maximize its impact in terms of all its core functions and to be open to prestigious regional and international experiences, in a way that contributes to achieving the United Nations sustainable development goals. From this standpoint, the university has worked to strengthen its international partnerships aimed at achieving development goals. The followings are the most prominent international partnerships held by the university to achieve these goals:

- Foundation Stichting Wageningen research- Holland to provide relevant knowledge transfer and technology innovation services to the development of agriculture practices for improvements of fruit, vegetables, dates, and field crops.
- Queensland University- Australia, to apply the best practices in terms of jojoba plants and seeds research.
- SVG Partners LLC- USA, to provide monitoring services for startups.





