



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

عمادة خدمة المجتمع والتنمية المستدامة
Deanship of Community Service and Sustainable Development



SDG 15

Life on Land

Sustainable
Development Report

2021-2022

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1. Forest Vegetation in IAU Campus



Big Trees and plants: Family Medicine



Big Trees: On the pathway



Planted trees and plants: University Hospital



Natural Trees & plants at the entrance of IAU buildings



Big Trees Near Parking Slots





Big trees on the pathway outside IAU buildings



Big Trees at Orientation Studies - Medical Track



Big Trees at entrance of IAU main gate



Natural Trees & Plants at Student Restaurant 1



Building 110 - VIP



Natural Tree plantation in the Campus

As it is evident from the above building pictures, that IAU administration is committed towards green campus, as evidence many natural plants and trees were maintained in addition

various big trees and plants were planted. The description is as follows:

Total main campus area (m²) = **6,165,741 m²**

Total area on campus covered in forest vegetation (m²) = **637,496 m²**

The percentage of the area on campus covered in forest vegetation in the year **2021-2022** excluding to the total campus area **is 10.33%**

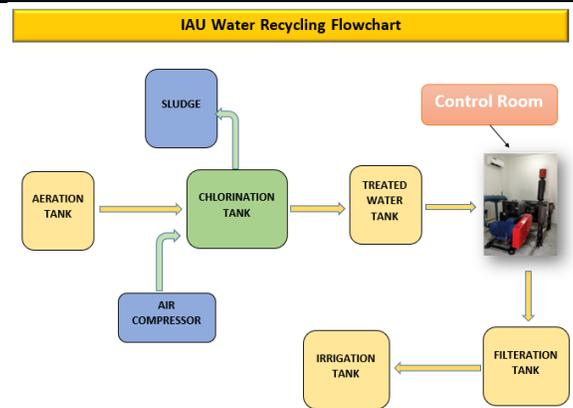
2. Water Conservation Program at IAU Campus



Water treatment plant at IAU



On campus biological water treatment plant



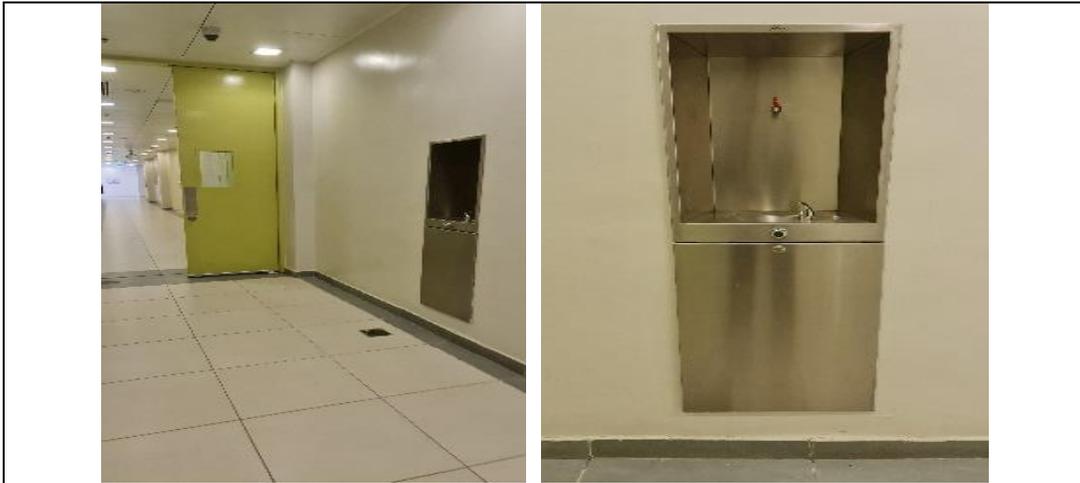
Water Recycling Flow Chart

Water Recycling Program (IAU, KSA)

3. Water Collection, Storage & Utilization at IAU



Water Collection and Storage plant



Consumption of clean water through dispensers installed in every college building

4. Water pollution control in Campus area.



Water Pipes periodically inspected and repaired for any leaks or worn outs

The maintenance department at IAU periodically check the water Pipes, they inspected and repaired it in case of any leaks or worn outs.

5. Total Planted Vegetation Area



Saplings ready to be planted



Trees all across the campus



Plantation at Orientation Studies - Medical Track



Plantation at College of Architecture & Planning



Grass at Sports Stadium



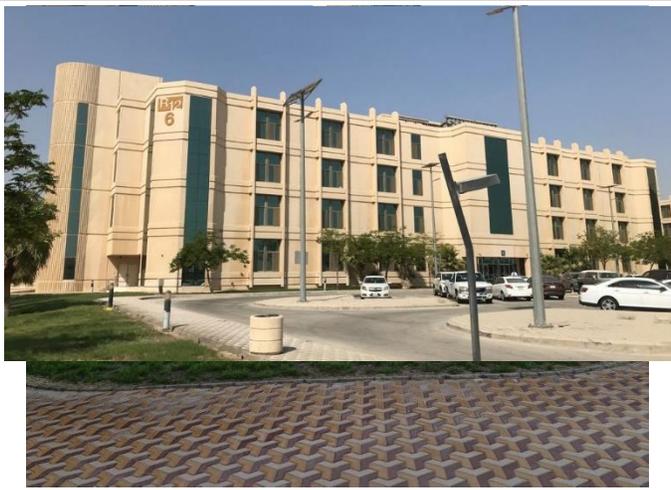
Planted Vegetation at Staff Housing



Student Housing trees and plants



College of Dentistry



Patches of Grass bed Infront and back of each building



Various trees adjacent to buildings, pathways, parking, on medians etc.



Green grass: Spread on various places in Campus



Planted vegetation



Trees: On the pathway



Trees and plants: Near parking slots



Trees and plants at the entrance of IAU buildings



Trees and plants: Building 200



Trees and plants: University Hospital



Trees and plants: Family Medicine

Description:

Total main campus area (m²) = **6,165,741 m²**

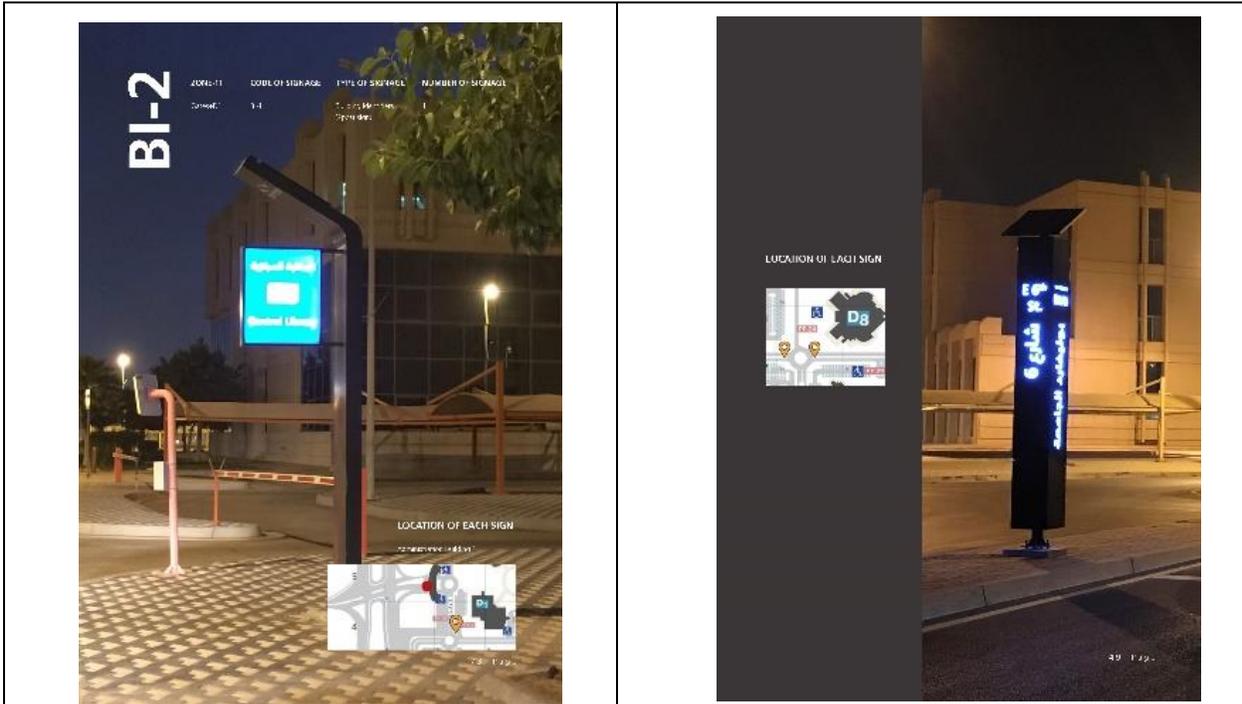
Total area on campus covered in planted vegetation (m²) = **2,514,957 m²**

The percentage of the area on campus covered in planted vegetation excluding forest to the total campus area = **40.49%**

6. Clean Energy through Solar Panels



Solar Panels installed all over the campus to provide energy for the purposes of lighting, heating, cooling, running university laboratories, etc.



NIGHTVIEW OF SOLAR OUTDOOR SIGNAGE IN IAU CAMPUS



DAY-VIEW OF SOLAR OUTDOOR SIGNAGE IN IAU CAMPUS

7. Elements of Green Building Implementation

Elements of Green Building Implementation as Reflected in All Construction and Renovation Policies

All buildings of the IAU Campus fulfil the requirements of the Saudi Building Code National Standard for construction of buildings, whereby many of our building follow the international building standard code, which is of much higher standard.

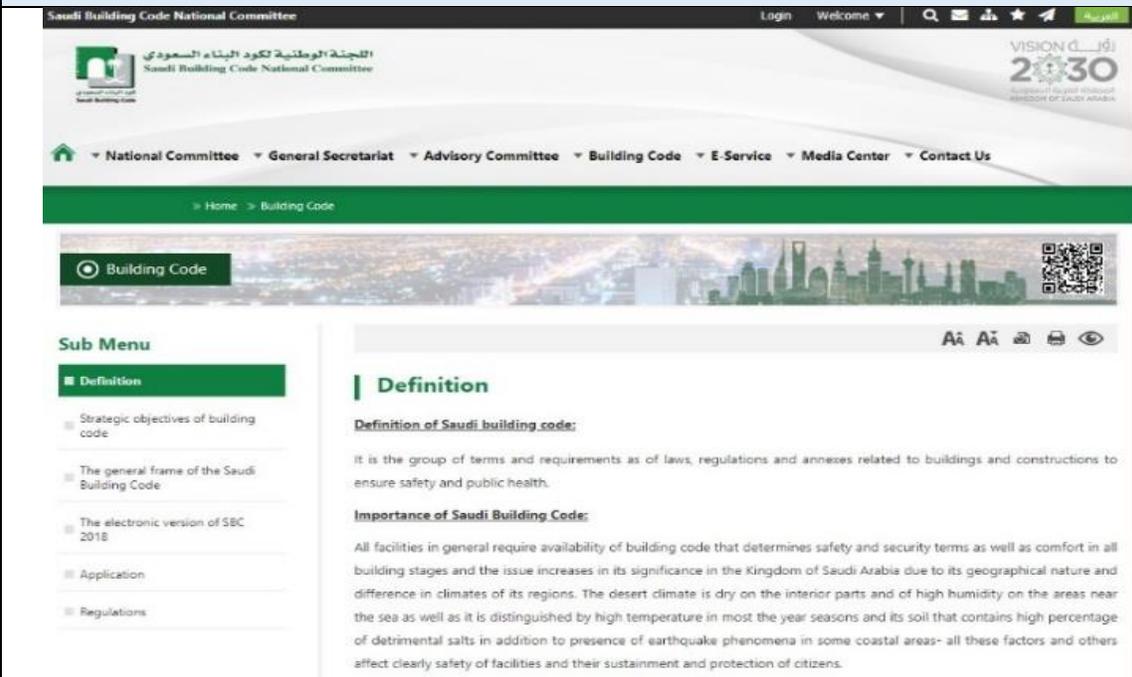
As stated in Saudi Building Code that "all facilities in general require availability of building code that determines safety and security terms as well as comfort in all building stages and the issue increases in its significance in the Kingdom of Saudi Arabia due to its geographical nature and difference in climates of its regions. The desert climate is dry on the interior parts and of high humidity on the areas near the sea as well as it is distinguished by high temperature in most the year seasons and its soil that contains high percentage of detrimental salts in addition to presence of earthquake phenomena in some coastal areas- all these factors and others affect clearly safety of facilities and their sustainment and protection of citizens."

As far as Green Building implementation is concern, one of the steps IAU had started implemented that is the cultivation of invented nono - plants in IAU as a tool for removal of air pollutants.

In addition, all irrigation System in Imam Abdulrahman Bin Faisal University (IAU) is connected and treated with wastewater.



Natural Ventilation in the class room and office corridors



IAU follow Saudi Building Standards in all his buildings

8. Introducing E-scooters: Promoting a sustainable transportation



An initiative IAU GREEN without CO2, inaugurated by H.E. the President of IAU



E-Scooter initiative in IAU, in an effort to reduce Greenhouse gas emission



DAMMAM — Dr. Abdullah Al-Rubaish, president of Imam Abdulrahman Bin Faisal University, Dammam, launched the Smart Mobility initiative at the lobby of the College of Architecture and Planning on the university campus here on Wednesday.

The initiative, which was commissioned by the Deanship of Community Service and Sustainable Development, comes as part of using clean energy within the university campus and make available its health benefits to the members of the campus community.

Dr. Al-Rubaish said that the university launched the pilot phase of the smart mobility service so as to achieve the Kingdom's Vision 2030 towards providing new opportunities for transportation.

"This is through generating clean energy within the university campus by bicycles and e-scooters with the WAYZ application, which will facilitate for its users the rapid mobility feature at the university through an electronic mobile application," he added.

For her part, Dr. Fatima Bint Abdullah Al-Mulhim, head of the Deanship of Community Service and Sustainable Development, said that the new experiment is based on using clean energy for the mobility inside the university campus.

"We launched earlier the initiative of 'Green University without Carbon,' under which these scooters, which are charged and operated with solar energy will be used. It is a service available to all educational and administrative staffers of the university as well as to male and female students," she said.

She noted that it has many health benefits, including the fight against obesity and the promotion of being environmentally friendly and serving the members of society with its environment.

According to Dr. Fatima, the goal is also to be sustainable through the presence of solar-powered stations.

"Today is the beginning of an experimental start and work is continuing in order to equip stations to charge these devices powered by solar energy.

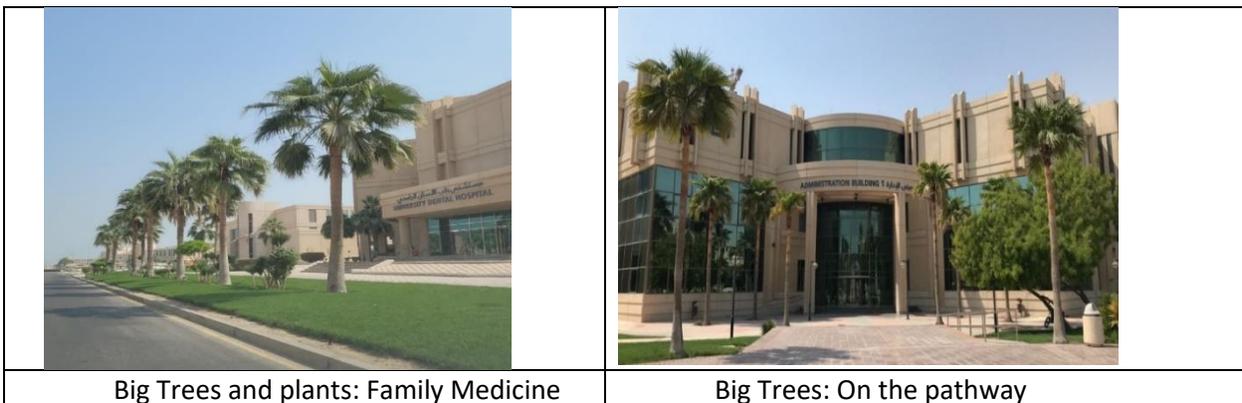
"All the university people, including male and female students, administrators and members of the educational staff, as well as university security personnel, will benefit from this service.

This will facilitate their freedom of movement without cars, and the initiative received a lot of encouragement and demand," she said while noting that safe corridors have been provided inside the university campus.

"This is one of our priorities to ensure the safety of the beneficiaries of this service, and it will be included in the first stage inside the university campus until the infrastructure and private roads are provided at the university for this type of initiative that is reflected in reducing the proportion of carbon.

"Now we are in the process of working with faculty members who obtained a patent in measuring carbon levels in the atmosphere, and we aim for the measurements and they will be returned according to the research scheme prepared for that," she added.

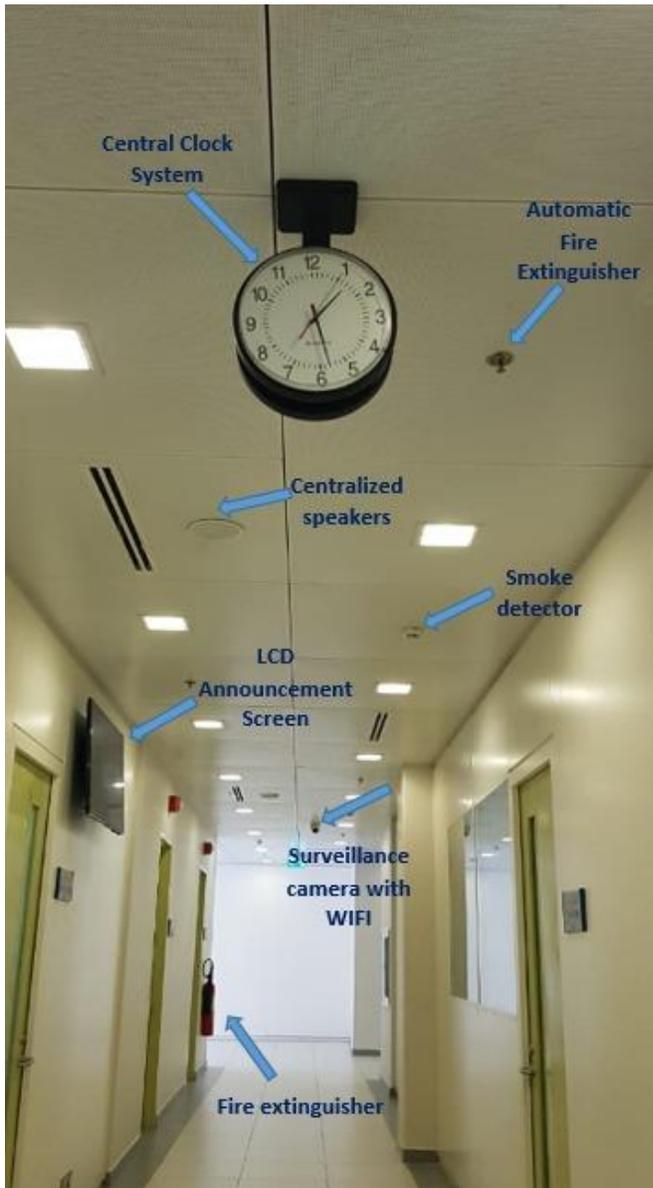
9. Planting more Trees in the Campus



	
<p>Planted trees & plants: University Hospital area</p>	<p>Natural Trees & plants at the entrance of IAU</p>
	
<p>Big Trees Near Parking Slots</p>	
<p>Big trees on the pathway outside IAU buildings</p>	<p>Big Trees at Orientation Studies - Medical Track</p>
	
<p>Big Trees at entrance of IAU main gate</p>	<p>Natural Trees & Plants at Student Restaurant 1</p>

10. Energy Efficient Appliances Usage

Energy Efficient Appliances Usage in all the Buildings of IAU: Use of LED & fluorescent lighting and lamps with auto shut-off sensors. Central clock system, centralized speaker & LCD Announcement screen in each building.



Florescent Light



Energy Efficient Appliances Usage in all the Buildings of IAU: Use of LED & fluoracent lighting and lamps with central clock system, centralized speaker & LCD Announcement screen

11. IAU participates in Earth Hour by turning off buildings' lights

Imam Abdulrahman bin Faisal University participated in the annual global event of "Earth Hour" by turning off unnecessary lights for one hour, from eight-thirty until nine-thirty on March 25, 2022 in the evening on Saturday; In order to contribute to the rationalization of energy consumption to confront global warming.

The Vice President of the University for Administrative and Financial Affairs - Head of Energy Efficiency at the university - Prof. Dr. Abdul Wahed bin Hamad Al-Mazrou explained that the university's participation in this global event by switching off external and unnecessary lighting in a number of the university campuses buildings. Moreover, the university's participation comes from its belief in the concerted efforts of all nationals to shed light on these important phenomena, raise awareness of their dangers, reduce heat emissions to preserve natural resources for future generations, and support the university's participation in this event in which government and private agencies of the Kingdom of Saudi Arabia participate in saving the planet. Furthermore, this participation aims to raise awareness of the damage of gases emitted from electricity consumption, and work to bring the world together to confront the factors and effects of climate change, as the solidarity of individuals, governments and private sectors for the benefit of their planet and commitment to environmental behaviors is the goal. In addition to urging individuals, government sectors and the private sector to reduce the use of electricity to minimize the proportion of the harmful gases emitted

from the use of electricity, he also urged to support the country's approach towards energy rationalization and working to reduce unnecessary consumption as a contribution by members of society to saving energy and reducing its negative effects and emissions.

Al-Mazrou added that the countries of the world celebrate "Earth Hour", which is on the last Saturday of March of each year. And that by turning off the lights in the most famous tourist attractions in each country from 8:30 in the evening and for 60 minutes with the aim of uniting the world's people to draw attention to the dangers of the phenomenon of climate change.

Furthermore, the last Saturday of March was chosen every year, due to its proximity to the date of the vernal equinox, i.e. the night and day being equal, to ensure the participation of most of the world's cities around the time of the night in these cities, as the Earth Hour moves across time zones respectively.

