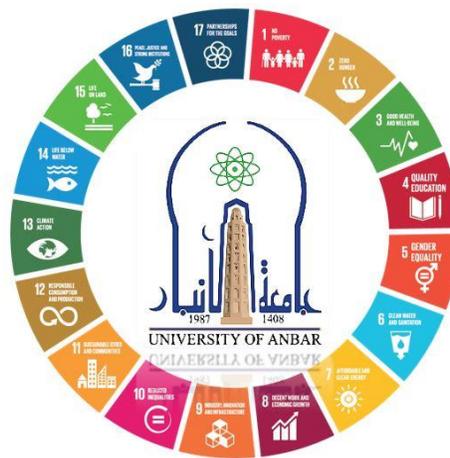




Final Sustainability Report

2021

University Of Anbar



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1. Introduction

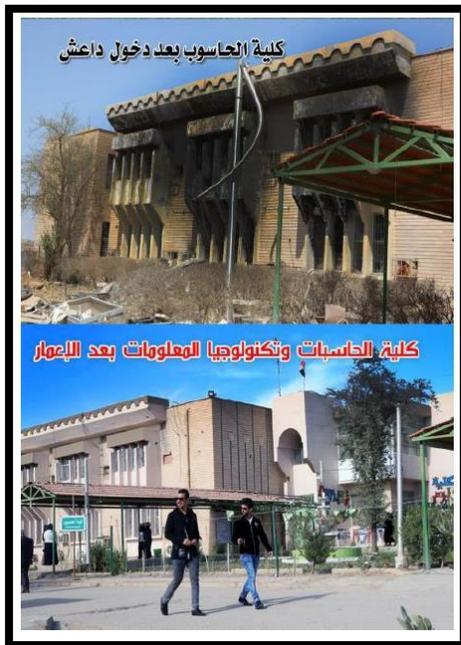
The Sustainable Development Goals are interrelated with each other, in addition to the specificity of each goal. These goals cover a wide range of issues that concern social and economic development through eleven goals approved by the United Nations. Since the beginning of its establishment, the University of Anbar has been interested in being an influential and effective social and economic component within the local and international region, as it has developed many plans to provide job opportunities for the people of the region within its formations, as well as improving the economic reality of the area surrounding the university, while contributing through annual programs to provide an atmosphere of social cohesion through festivals and events cultural.

After the adoption of the sustainable development goals by the United Nations General Assembly in 2015, the University of Anbar was keen to develop future plans that are in line with the constitution and laws of the Iraqi state and that are consistent with the goals of sustainable development.





The University of Anbar focused on implementing all the sustainable development goals in an optimal manner, as it developed its plans and policies to match these goals, but due to the war against ISIS organizations in the region during the period between 2014-2017, some of these goals could not be sufficiently achieved, but after 2018, the university returned again to set its plans and define its policies To include all objectives, with a focus on objectives that have a direct impact on the local area that surrounds the university. The university's policies included cooperation with local community organizations and the United Nations offices inside Iraq. It also prepared educational workshops, similar to which awareness committees were formed to educate and raise awareness of the academic staff as well as the people of the local area.





This report has been prepared to clarify the university's activities within the goals that have a direct impact on the university and the local area, which are represented in eight goals (No poverty, Good Health and Well-Being, Quality Education, Gender Equality, Decent Work and Economic Growth, Affordable and Clean Energy, Sustainable Cities and Communities, and the goal 17) in addition the university has different activities within the rest of the goals because, as mentioned previously, the goals of sustainable development are overlapping goals and complement each other. Therefore, we note that some of the policies and activities held by the university serve more than one goal at the same time.



2. The University Activities

This paragraph, review the most important events held by the University of Anbar, which are in line with the goals of Sustainable Development:

No Poverty (SDG 1)

Since 2017, while the war against ISIS finished many local families lost their job and became considered one of the poor families. Hence the University of Anbar made a policy to help students belong to poor families. According to this policy all university's colleges started to account and list the number of students which is classifying under poor family, after the accounting process the colleges started to provide students with Monthly amount, food basket (staple food), provide a free student housing, while made the studying free of charge for those who studying MSc or PhD because the students that study BSc is already free of charge due to the Iraqi constitution.





For more details please visit:

<http://cras.uoanbar.edu.iq/English/index.php>

<https://daf.uoanbar.edu.iq/>



Good Health and Wellbeing (SDG 3)

The university of Anbar established an electronic clinic (<https://www.uoanbar.edu.iq/MedicineCollege/English/CMS.php?ID=54>) which help students and staff to get medical consultation online, also the university opened a medical center inside the campus to provide medical treatment and some small emergencies activities while the serious emergencies cases send to the educational hospital of Anbar which is partially belongs to the university of Anbar. Also the university opened a developed dental center at college of dentist and the university provided five ambulances to transport the emergency cases that could happened in the university to the hospital, these ambulances distributed in locations nearest to the university's colleges to provide fast response. All of these activities are providing a free of charge to all academic staff and students.





To ensure good health, and to reduce the carbon prints the university launched a program to cover all the lands with trees and grass and lawn, this program is named (University of Anbar is a green oasis) or shortly (Green Oasis), this program tends to make the university contains large green areas, increase the forest size around the university, provide the artificial lakes, and fountains.









Quality Education (SDG 4)

Universities are considered an educational center that depends on providing an academic climate that helps provide a workforce that meets the requirements of the labor market and keeps pace with the scientific development witnessed by the world. Therefore, the University of Anbar improves annually the curriculum for all stages at a rate of 10-20% to suit the requirements of global scientific development. The University of Anbar has also developed the capabilities of teaching staff and students by participating in courses and workshops with many international organizations and has concluded memoranda of understanding with many international universities for the purpose of advancing the scientific reality and providing an advanced educational environment.





Number of courses subjects related to sustainability offered = 965



Total number of courses/subjects offered= 4275





(BA) Course Title	Notes
Engineering Geology	Course includes the sustainability in practice certificates embedded in the core curriculum.
Building Construction	Incorporates themes relating to social sustainability and focuses on practical skills development.
Fluid Mechanics	Course has had changes approved in the curriculum refresh programmed, which includes seven expectations focusing on sustainability and social responsibility.
Water Treatment	Incorporates themes relating to social sustainability and focuses on practical skills development.
Engineering Numerical Methods	Course includes the sustainability in practice certificates embedded in the core curriculum.
Fundamentals of Electrical Engineering	Course has had changes approved in the curriculum refresh programmed, which includes seven expectations focusing on sustainability and social responsibility.
Engineering Surveying I	Incorporates themes relating to social sustainability and focuses on practical skills development.
Engineering Surveying I	Course includes the sustainability in practice certificates embedded in the core curriculum.
Concrete Properties	Incorporates themes relating to social sustainability and focuses on practical skills development.
Dynamics	Course has had changes approved in the curriculum refresh programmed, which includes seven expectations focusing on sustainability and social responsibility.
Strength of Materials II	Incorporates themes relating to social sustainability and focuses on practical skills development.
Soil Mechanics	Course includes the sustainability in practice certificates embedded in the core curriculum.



Reinforced Concrete (2)	Incorporates themes relating to social sustainability and focuses on practical skills development.
Hydrology	Course has had changes approved in the curriculum refresh programmed, which includes seven expectations focusing on sustainability and social responsibility.
Ethics and Leadership skills	Incorporates themes relating to social sustainability and focuses on practical skills development.
Steel Structure	Course has had changes approved in the curriculum refresh programmed, which includes seven expectations focusing on sustainability and social responsibility.
Method of Construction & Estimation	Course includes the sustainability in practice certificates embedded in the core curriculum.
Highway Engineering	Incorporates themes relating to social sustainability and focuses on practical skills development.
Traffic Engineering	Course includes the sustainability in practice certificates embedded in the core curriculum.
Foundation Engineering (1)	Incorporates themes relating to social sustainability and focuses on practical skills development.
Sanitary & Environmental Engineering	Course has had changes approved in the curriculum refresh programmed, which includes seven expectations focusing on sustainability and social responsibility.
Engineering Mechanics (Static)	Course includes the sustainability in practice certificates embedded in the core curriculum.
Principles of manufacturing process	Incorporates themes relating to social sustainability and focuses on practical skills development.
Thermodynamics-II	Course has had changes approved in the curriculum refresh programmed, which includes seven expectations focusing on sustainability and social responsibility.
Engineering Metallurgy	Course includes the sustainability in practice certificates embedded in the core curriculum.
Electrical Machines	Course has had changes approved in the curriculum refresh programmed, which includes seven expectations focusing on sustainability and social responsibility.
Engineering Mechanics (Dynamics)	Course includes the sustainability in practice certificates embedded in the core curriculum.
Heat Transfer-I	Incorporates themes relating to social sustainability and focuses on practical skills development. Course includes the sustainability in practice certificates embedded in the core curriculum.
Internal Combustion Engines	Course has had changes approved in the curriculum refresh programmed, which includes seven expectations focusing on sustainability and social responsibility.



Gender Equality (SDG 5)

The University of Al-Anbar is a public university that follows the Iraqi constitution, which guarantees the right to equality between the genders. Therefore, the University of Anbar, in order to motivate women to engage in work to represent half of the community, has formed joint committees between male and female students for the purpose of agriculture and work in small projects such as a pastry production factory. The university also established a committee to follow up on the requirements of female students called (Women's Rights Committee). The university has also hosted many events and courses that are concerned with teaching women sewing and other handicrafts. The university's formations also held workshops aimed at reducing violence against women, including those that were held under the auspices of the (UNDP) organization's office in Anbar. (<https://www.uoanbar.edu.iq/WomenAffairsCommittee/English/>).





Affordable and Clean Energy (SDG 7)

Through the Renewable Energies Center, the University of Anbar has developed its ability to use alternative energies to provide electrical capacity, as the university has equipped most of the buildings with a system to generate electrical energy using solar rays, and also used in the year 2020 the system to generate electricity using wind turbines, as well as used small systems to generate electricity using water energy. Through the university's experience in this field, the university presented its products in the local market for the purpose of helping the Iraqi citizen by using clean energy. For the purpose of optimizing the energy resources, the University of Anbar has also collected rainwater in ground basins and then used it for watering plants and treating them for the purpose of using them for drinking purposes. The university also used drip irrigation systems or sprinklers to irrigate the green areas inside the university for the purpose of preserving the water source.

(<https://www.uoanbar.edu.iq/RERCenter/English/index.php>).









There are three Renewable Energy Research (RER) in University Of Anbar

1. **Solar power produce = 862500 KWH**
2. **Wind power produce = 218063 KWH**
3. **Hydropower produce = 35 KWH**

Researchers from the center of Renewable Energy Research (RER) have designed and implemented a smart solar mobile charger. This street charging unit has been installed next to the RER center and can to grant free phone charging services to 10 students simultaneously. The charging unit runs entirely on solar panels that have already exposed to solar energy and work for (24) hours.

For more information please visit:

<https://www.uoanbar.edu.iq/RERCenter/English/index.php>

https://www.uoanbar.edu.iq/English/News_Details.php?ID=988

Important website:

<https://www.uoanbar.edu.iq/English/Prospectus/Prospectus2018-2019.pdf>





Decent Work and Economic Growth (SDG 8)

The university contributed to the development of the economic reality in Anbar Governorate by creating job opportunities for the people of the region. The university's formations also contributed to preparing a feasibility study for many of the young projects that were opened in Anbar Governorate, where the university opened a consulting office in each college within its formations for the purpose of providing expertise and advice to the owners of factories in Governorate. These advisory offices also contributed to the opening of small projects, including a dairy production plant and a pastry production plant in the College of Agriculture. The university also established the Center for Strategic Studies for the purpose of providing the governorate and decision-makers in the country with studies and advice for the purpose of developing the economic reality in the country.





Number	Informations
1	<p>Startup name: Engineering Consultative Bureau</p> <p>Startup area in UI Green-metric: SI & ED & EC</p> <p>URL: https://www.uoanbar.edu.iq/English/CMS.php?ID=12</p>
2	<p>Startup name: Agricultural Consultative Bureau</p> <p>Startup area in UI Green-metric: WS & ED</p> <p>URL: https://www.uoanbar.edu.iq/English/CMS.php?ID=13</p>
3	<p>Startup name: The Pure Sciences Consultative Bureau</p> <p>Startup area in UI Green-metric: ED & EC & WS</p> <p>URL: https://www.uoanbar.edu.iq/English/CMS.php?ID=14</p>
4	<p>Startup name: The Computers Consultative Bureau</p> <p>Startup area in UI Green-metric: : SI & ED & EC</p> <p>URL: https://www.uoanbar.edu.iq/English/CMS.php?ID=15</p>



Number	Informations
5	Startup name: Legal Consultative Bureau Startup area in UI Green-metric: WR & TR & ED URL: https://www.uoanbar.edu.iq/English/CMS.php?ID=16
6	Startup name: Consultative Bureau for Languages and Translation Startup area in UI Green-metric: ED & SI URL: https://www.uoanbar.edu.iq/English/CMS.php?ID=18
7	Startup name: Administration & Economics Startup area in UI Green-metric: SI & ED & EC & WS URL: https://www.uoanbar.edu.iq/English/CMS.php?ID=17
8	Startup name: Scientific Consultative Bureau Startup area in UI Green-metric: ED & WS & TR URL: https://www.uoanbar.edu.iq/English/CMS.php?ID=19
9	Startup name: Computer Center Startup area in UI Green-metric: ED & SI URL: https://www.uoanbar.edu.iq/CITCenter/English/index.php
10	Startup name: Center for Continuing Education Startup area in UI Green-metric: ED & SI URL: https://www.uoanbar.edu.iq/TeachingMethodsCenter/English/index.php
11	Startup name: Euphrates Higher Basin Developing Startup area in UI Green-metric: WR & ED & SI URL: https://www.uoanbar.edu.iq/UEBDC/English/index.php



Project Name	Participants	Project Duration
Food for everyone	144	1 year
Community health	120	1 year
Al-Anbar Green Oasis	68	5 years
Make your food organic (group of students work to give advice how to change your life style to be organic and learn how to use organic wastes to generate home made fertilizer)	88	9 month
Euphrates higher basin developing	40	10 year
Follow-up committee (a group works to achieve the university policy to reduce the number of cars that interring the university s campuses and encourage staff and students to share same vehicle)	100	6 months
Women affairs committee	130	2 year
Reduction of desertification	35	4 year

For more details please visit:

<https://www.uoanbar.edu.iq/English/CMS.php?ID=11>

<https://www.uoanbar.edu.iq/SDG/>



Sustainable Cities and Communities (SDG 11)

Universities are a model for urban cities and directly affect their population. Therefore, the University of Anbar had to have an educational and awareness aspect aimed at developing the urban reality in the surrounding area, and it should work to improve the reality of the climate. Therefore, the University of Anbar, through the Department of Construction and Projects [www.uoanbar.edu.iq/English/CMS.php?ID=43], has set its policy to transform all university buildings to be in the form of sustainable buildings that depend on providing natural lighting through sunlight, as well as allowing the passage of fresh air to all the corridors of the buildings. The buildings were also designed to depend on a high percentage of energy self-sufficiency using solar cells with the use of LED technology for lighting, and a system was designed to use water optimally in each building by using water taps that depend on the principle of intermittent pumping of water or in the form of a sprayer, and the plant irrigation system is used around each building using drip irrigation technology. The buildings were also designed to be smart buildings with fume and smoke sensing systems, fire extinguishing systems, and video surveillance systems using digital cameras. The university's policy also recommended that each building contain an electronic entry system for the building.







The university has also established consulting offices in the College of Engineering working to provide advice and a feasibility study for projects and buildings within the governorate and the area surrounding the university, which aims to provide an urban structure near the rural areas surrounding the governorate that contribute to reducing the effects of climate change. This policy pursued by the university has significantly reduced the carbon footprint of the university and the surrounding area.

Appliance	Total Number	Total number energy Efficient appliances	Percentage
LED Lamp	409,613	385039	94%
Fan	2648	2279	86%
Computer	4687	4367	93%
Etc.
		Average Percentage	91%



3. Other Sustainability Goals

As mentioned at the beginning of this report that the sustainable development goals are overlapping goals and complement each other with some specificity for each goal. Therefore, we note that this report reviews the most important programs pursued by the University of Anbar in line with the academic and social reality of the province and the country, but this does not mean that the university did not take measures within the rest of the goals. On the other hand, the university carried out activities within the goals as follows:-

Zero Hunger (SDG 2)

The university's activities consisted of holding workshops and seminars and forming student committees that work to collect donations and provide a food basket for poor students and their families in collective campaigns called social solidarity campaigns.

Clean Water and Sanitation (SDG 6)

As part of the university's activities in providing clean water. The university established a water desalination and sterilization plant near the Euphrates River near the university, as well as the construction of underground tanks in the form of artificial lakes to collect rainwater for use in watering crops, as well as a station within the university for the purpose of collecting and filtering irrigation water. It can be used again for watering plants, or sent to buildings for use in health facilities.





Industry, Innovation and Infrastructure (SDG 9)

Since the University of Anbar is an academic research center, the university has developed a policy called “Producing University.” During this policy, the university was able to encourage scientific cadres to research and develop the production process within the university, so the College of Agriculture established Stations for breeding chickens and sheep, producing table eggs, and displaying the product at reasonable prices. The university also established a small factory for the production of pastries, as well as a farm to grow mushrooms. In the field of infrastructure, the university has established electricity generating stations using solar cells with large capacities to be used to feed the university buildings, as well as produced small stations with a capacity of 1000 watts and offered for sale in the local market. The university also devised a system for charging mobile phones and distributed it in different areas within the university campus.

Reduced Inequalities (SDG 10)

Within this goal, the policy of Anbar University relies on the Iraqi constitution and the laws in force issued by government agencies, where the university is to provide the salaries of the teaching staff and the rest of the employees based on a legal arrangement prepared by the Iraqi government that guarantees non-alignment and provides a fair distribution of financial matters depending on The university also provides financial and moral rewards for creative people who carry out research or development work for the purpose of raising the spirit of scientific and academic competition among the university’s affiliates.



Responsible Consumption and production (SDG 12)

Due to the critical situation in which Iraq is going through from the lack of provision of electrical energy and the inability to provide clean drinking water, the university has established a policy of reducing consumption and relying on alternative sources by using solar and wind energy to generate electricity within the university, as it relied on water harvesting. Rain and stored in ground tanks to be used in watering plants or used in health facilities. The university also relied on watering plants by drip method, collecting excess water from irrigation and re-filtering it to be used again.

Climate Action (SDG 13)

For the purpose of reducing carbon emissions and for the purpose of reducing the impact on the climate, the University of Anbar has conducted several seminars and workshops to educate about reducing the impact on the climate. The university also launched an integrated project aimed at improving the climatic environment inside the university, which it called (the University of Anbar is a green oasis), which aims to increase the green space in the university and increase the area of forests around the university. The number of cars entering the university and the provision of the principle of shared transportation, as well as zero-carbon wheels used by some authorized persons to move between university departments.

Life below Water (SDG 14)

Anbar University is located near the Euphrates River and close to Lake Habbaniyah in Anbar Governorate. Therefore, the university is interested in and puts within its policies the preservation of these water bodies and the environment they contain. Hence, the university established the Upper Euphrates Center [www.uoanbar.edu.iq/UEBDC/English/index.php] within its formations concerned with providing studies and monitoring life above and underwater in these bodies of water. This center also holds annual conferences



in addition to research, workshops and seminars [www.uoanbar.edu.iq/UEBDC/English/Sectors.php?ID=4] for the purpose of following up on aquatic life within Anbar Governorate.

Life on Land (SDG 15)

From the beginning, the policy of the University of Anbar was clear to provide areas for living on the land, as well as working to improve the natural distribution of plants in a way that ensures the preservation of biological diversity in the area surrounding the university. Therefore, the university launched an integrated project that extends its work for three years, which it called Anbar University a green oasis or for short (Green Oasis) [www.uoanbar.edu.iq/English/News_Details.php?ID=1124], [www.uoanbar.edu.iq/English/News_Details.php?ID=1125] to ensure the provision of a diverse terrestrial environment with its biological representation, as well as to reduce carbon emissions and provide plant diversity in the region.

Peace, Justice and Strong Institutions (SDG 16)

The University of Anbar follows the Iraqi constitution in applying the principle of peace and justice. The university's policy guarantees peace and justice for all university members as well as students of both sexes and all religions. The university has established continuous workshops and seminars that encourage brotherhood and equality. The university held an annual international conference for equality between religions. The university also has a committee to follow up on women's affairs [www.uoanbar.edu.iq/WomenAffairsCommittee/English]. It works to follow up on women's requirements within the university and works to achieve equality for them with their male peers at the university. The university also has disciplinary committees aimed at imposing justice among university members, as well as holding accountable the negligent who intend to work outside the scope of



University policy. The university's policy also emphasized the involvement of women in senior positions within the university, such as the Dean of the College of Pharmacy, the Dean of the College of Education for Girls, the Associate Dean of the College of Education for Girls, the Associate Dean of the College of Medicine, the Associate Dean of the College of Dentistry and others, all of whom are female. This indicates equality and justice as well as shows The University is one of the strong institutions that has the ability to impose its policies.