

13.3.1 SUSTAINABLE DEVELOPMENT GOALS VISION 2030 IN THE KINGDOM OF SAUDI ARABIA

Sustainable Development Goals Vision 2030 in the Kingdom of Saudi Arabia

Whereas the Custodian of the Two Holy Mosques King Salman bin Abdulaziz said: “We are part of this word and we live the problems and challenges it is facing. We all share this responsibility and we will contribute, God willing, actively to the development of solutions to many of the world’s pressing issues, including the issues of the environment and sustainable development. We will continue in this regard to work with international organizations, institutions and partners.”

Saudi Arabia is committed to implementing sustainable development goals and attaches the highest priority to this endeavor, as commensurate with the Kingdom’s specific context and national principles.

Vision 2030 charts out the path Saudi Arabia will take to build a prosperous future in all development areas, Vision 2030 framework and other state programs and policies provide solid foundations for the implementation of the sustainable development agenda. An assessment of linkages between the Vision 2030 goals and the 17 The SDGs conducted as part of the analytical work for this review found that a significant degree of alignment exists between the two frameworks.

Sustainable development has been an increasingly important dimension in the Kingdom of Saudi Arabia since the inception of the country’s development process, with major highlights of this dimension already evident in Saudi Arabia's long-term strategic directions.



Figure (1)

Introduction

Sustainable development has been an increasingly important dimension in the Kingdom of Saudi Arabia since the inception of the country's development process, with major highlights of this dimension already evident in Saudi Arabia's long-term strategic directions. Practical implementation of this endeavor proceeded throughout the Kingdom's successive five-year development plans that were initiated in 1970, with a primary focus on development of capabilities of citizens, attainment of their ambitions, satisfying their needs and improving their standard of living, since citizens are the ultimate target of sustainable development. In addition, development plans have been keen to extend development to all social and economic sectors across all provinces. In the context of implementing its development strategy, Saudi Arabia draws upon Islamic principles and values as well as an economic freedom, so as to integrate the three basic dimensions of development: economic, social and environmental.

Successive development plans have contributed to the Kingdom's achievement of considerable social and economic gains that are both balanced and sustainable, as evidenced by the country's continued economic growth at high rates, along with a conducive climate for a growing private sector's role and improved competitiveness of the Saudi economy; in addition, the country possesses an advanced socio-economic infrastructure, coupled with continued improvement of health, educational and environmental services provided to citizens.



Regulatory dimension

Focuses on raising the efficiency of government services through development of administrative rules and regulations, restructuring of government bodies and creation of new bodies with an aim to improve performance and boost productivity.



Economic dimension

The emphasis is to sustain the economic base, diversify revenue sources and achieve a balanced development among various economic sectors, along with rationalized exploitation and increased productivity of physical and human resources.



Social dimension

Social dimension focuses on safeguarding Islamic values, development of human resources and improvement of social welfare of citizens through scaling up of health, educational and cultural aspects.

A key target of development plans has been to achieve growth and economic stability due to the marked positive effect this has on GDP per capita, thereby raising the living standard of Saudi citizens, a target that is underscored by the Kingdom's Vision 2030. Data indicate that real GDP increased by about 12% during the period 1980-2017. This marked economic growth, besides other factors, helped Saudi Arabia to become a member of the Group of Twenty (G20). In addition, income per capita went up by 30% since 1980, rising up to about SAR 76,26 (USD 20,300) by the end of 2016.

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Looking Ahead, with an Ambitious Vision

Vision 2030 of the Kingdom of Saudi Arabia was launched and approved by the Council of Ministers in April 2016. The underpinning goal of Vision 2030 is to address current regional and international challenges, maintain development gains, diversify and stimulate economic growth and end its reliance on oil as the main source of income. Vision 2030 is an ambitious methodology and a roadmap for the Kingdom to gain a prominent international standing in all economic, social and cultural spheres. It also outlines the Kingdom's course for continued and accelerated sustainable development efforts leading up to a higher standard of living and improved quality of life for citizens. Towards this end, Vision 2030 envisages three pillars, namely: **a vibrant society, a thriving economy and an ambitious nation.**

A vibrant society

This is the main pillar and the cornerstone for building a thriving economy. The Kingdom's emphasis on this aspect is to build a vibrant society, with strong roots, fulfilling lives and strong foundations.

Deep roots
A society where members live in accordance with the Islamic principle of moderation, in line with Islamic guidelines.

Fulfilling lives
A society that cherishes its national identity and takes pride in its rich cultural heritage and history, within a stimulating and attractive environment that provides for all the needs of citizens and expatriates.

Strong foundations
A society that is based on a strong family system, along with all enablers and constituents of health and social care.



An ambitious nation

The Kingdom's interest in the public sector is driven by its keenness to build an ambitious nation, with an effective government and a responsible citizenry.

An effective government
Enhancement of the principles of transparency and benchmarking of public performance, in order to upgrade human resources, with full utilization of resources.

A responsible citizenry
An effective government allows the opportunities for citizens, the private sector and non-profit organizations.

A thriving economy

This pillar falls within the Kingdom's interest to build a thriving economy with rewarding opportunities, meeting for the long term, open for business and leveraging the country's unique position.

Rewarding opportunities
will be generated for all, including large and small companies and entrepreneurs, through alignment of education with labor market needs.

Investing for the long term
Creation of opportunities for various economic sectors and generation of adequate and rewarding job opportunities, through development of investment instruments.

Open for business
The Kingdom seeks to raise quality of development and economic services provided to all, through privatization of government services.

It underpins the country's success

Figure (2)

Princess Nourah University trees 45 campus locations

On Tuesday, 3/11/2020, the Deanship of Student Affairs participated in the National Afforestation Campaign, launched by the Ministry of Environment, Water and Agriculture and the National Centre for Vegetation Development and Combating Desertification, under the slogan "Let's make it green." The campaign saw the participation of the staff and employees of Princess Nourah University, in the presence of employees of the Ministry of Environment, Water and Agriculture, and the participation of female students of the Faculty of Science.

The campaign aims to contribute to the preservation of the environment, combat desertification, and contribute to increasing vegetation, by afforestation 45 sites on campus, infused with about 750 seedlings of Gulf ghaf trees and talisman.

The campaign coordinator, Dr. Najla Al-Shaya, explained that the participation of Princess Nourah University promotes positive behaviors to maintain the integrity of the university environment, which reflects positively on the national environment and its development, in addition to improving the quality of life by urging students and university staff to afforestation, contributing to the activation of the activities of female students in the design of awareness messages for the community, and raising awareness of the harm of negative practices towards vegetation.

It is noteworthy that the importance of this participation aims to achieve the vision of the Kingdom 2030, and to activate the memorandum of understanding between Princess Nourah University and the Ministry of Environment and Water through the cultivation of local trees low water consumption, adapted to the conditions of drought and high temperature within the university, which will be provided by the Ministry, and then attention and care by the university to ensure its sustainability.

Projects for this year:

1. Establishment of a center specialized in sustainability and building management

- The project aims to establish a permanent and accredited center of local and international organizations and bodies specialized in managing sustainability and facilities
- The center performs the following tasks:
 - - Countering and publishing research on energy, the environment and the management of university facilities
- Regular professional conferences and seminars

- Granting professional accreditations in various fields •

2. Adopt the Noora Health Initiative

- In the context of seeking accreditation from who and achieving the required standards, the Sustainability Department seeks as part of its participation in the initiative to:

- - WHO standards continue to operate permanently within the university city
- Periodic annual review of the application of standards
- - Adding new standards that promote health and sustainability in the university city

3. Afforestation and Gardening Project

The project aims to upgrade the aesthetic view of the university city by raising the level of afforestation and planting flowers and increasing the green cover and the project is based on the completion of the following tasks

- - Study the need of the university city of gardens, afforestation, green spaces, fountains and waterfalls
 - - Work a 3D design for the project and offer it for approval
- Preparing a phased action plan for the implementation of the •
project

[Environmental Sustainability Department](#)

Energy management:

- - Activation of BMS building management system for building energy management
- - Check the performance efficiency of the cooling plant, pumps and heaters
- - Construction of wind and solar power plants

- - Review the operation of pumps and heaters and ensure that they are suitable for energy policies
- - Follow-up project (rationalization) to monitor the consumption of electricity and appropriate solutions to avoid it
- Check automatic lighting sensors and ensure the efficiency of their work •

Water management:

- - Ensure that the procedure and results of periodic examination of drinking water and use
- Review the operation and distribution of grey water plants
- Introducing products and practices that will reduce water use for irrigation and use •

Environmental management:

- - Conducting an internal air quality check in buildings
- Review of collection and waste disposal procedures and their suitability for standard environmental management policies
- - Providing awareness courses in colleges to deal with waste
- Field noise tests
- - Develop policies aimed at reducing the use of carpets and curtains in buildings
- - Ensure the amount of natural and electrical lighting and the appropriateness of the type of headquarters
- Ascertain the quantities used of pesticides, fertilizers and cleaning fluids •

Garden management:

- Administrative supervision of the operation of gardens
- - Provide a study on the current need for gardens and afforestation in the university city
- Replanting desolate areas

- - Work a new aesthetic design for afforestation and green spaces and adopt and implement it
- Review periodic maintenance schedules for irrigation systems

[Princess Nourah Bint AbdulRahman University launches Geo-Environment Forum with Vision 2030 in collaboration with the Ministry of Environment, Water and Agriculture](#)

Under the auspices of His Excellency the Director of the University, Dr. Inas Bint Suleiman al-Issa, Princess Nourah Bint Abdul Rahman University, represented by the Faculty of Arts, launched the "Geographical Environment Forum with Vision 2030" in cooperation with the Ministry of Environment, Water and Agriculture, in the University's Conference Center, in the presence of a number of leaders, representatives of ministries and a group of experts and interested people from various universities in the Kingdom.

The program opened with fragrant verses from the Holy Quran, followed by a speech delivered by H.E. The University's Undersecretary for Graduate Studies and Scientific Research Dr. Ahmed Al Ghadeer on behalf of His Excellency the University's Director Dr. Inas Bint Suleiman al-Issa, Inas Bint Suleiman al-Issa, in his speech welcomed the generous presence and expressed his pride and gratitude for the blessed efforts our leadership has given to support the processes of education and learning to promote the country in its present and future.

The Dean of the Faculty of Arts, Dr. Mona Al-Loiba, then delivered the opening speech of the forum, explaining that the Faculty of Arts represented by the Department of Geography initiated this forum based on the vision of Princess Nourah Bint AbdulRahman University to invest knowledge to be a beacon in the development of a sustainable national environmental community, where the forum (Geographical Environment vision 2030) aims to deepen and enrich the environmental culture in society, promote scientific research to serve environmental issues using giss, and highlight the original and innovative experiences leading in environmental work. Sustainable, promoting national values in

maintaining quality of life by reducing pollution in all its forms, increasing the efficiency of waste management and reuse, reducing the phenomenon of desertification, preserving natural wealth and consolidating the value of the sustainable environment in our dear country.

Dr. Al-Loiba's speech was followed by a panel discussion introducing the process of space and geospatial information in the Kingdom presented by the former Chairman of the General Authority for Space, His Excellency Lt. Gen. Mareh Al-Shahrani, and the Undersecretary of the Ministry of Land and Space at the Ministry of Municipal and Rural Affairs, Dr. Mohammed Al Rajhi.

The forum was then launched on its first day with two sessions in which nine working papers were presented, the first session was entitled "Modern technical applications in the field of environment using GIS" under the management of Dr. Abdullah Al-Briki Al-Shammari, in which the associate professor of geography from Qassim University, Dr. Ahmed Al-Daghiri, participated in the talk about: "The contribution of spatial analysis techniques in the study and preparation of naturality in the Tesia reserve in Saudi Arabia", as addressed by Engineer Talaat Al-Rahali to "plan the expansion of the investment of the metric industry for more accurate measurements and economy of the world." "Monitoring sand creep and predicting its movement using remote sensing and geographic information systems techniques in Badr province in Medina," said Dr. Nasser Al-Zabneh, Assistant Professor of Geography at Taiba University, "Monitoring sand creep and predicting its movement using remote sensing and geographic information systems techniques in Badr province of Medina," while Princess Nourah University Assistant Professor of Geography Dr. Iman al-Banna presented her scientific paper entitled "The impact of sea level rise on land uses in damietta and Rashid regions using GIS and remote sensing." Professor of Geographic Information Systems at Princess Nourah Afnan University of Turkey and Sita Al-Oufi, with a scientific paper entitled "Using GIS in Environmental Planning".

The second session was entitled "How to make our environment sustainable Ramadan?" From King Saud University and its scientific paper entitled "Major transport projects for sustainable development in Riyadh and its expected impact to reduce pollution and raise the level of air quality in 2030". At the end of the second session, Professor of Islamic

History Dr. Alia Al-Jubaili of Princess Nourah University discussed "Islamic solutions to the problems of the environment and its impact on Islamic civilization".

The forum has been attended by 16 entities, including ministries, institutions and government and private sectors, and will continue its activities until Thursday with two dialogue sessions entitled "Environmental Challenges" and "Waste Recycling to maintain a sustainable environment".

[Invitation to attend the Geographical Environment Forum](#)

Under the auspices of

University Director Dr. Huda Bint Omar Al-Wahabi

Princess Nourah Bint Abdul Rahman University is honored

Represented in the Department of Geography at the Faculty of Arts

Invite you to register and participate in

Geographical Environment Forum

Vision 2030

The accompanying exhibition in cooperation with the Ministry of
Environment, Water and Agriculture

Note:

Registration, participation in the forum and visiting the accompanying
exhibition are available to men and women.

Registration link:

<http://www.alraee.co/FOGE.html>

Time from 9am-2pm

Date 20-21/ 7 / 1440 H

27- 28/ 3/ 2019

Location: Convention Center (Blue Hall)

[Safety and Environmental Protection Workshop](#)

Pleased Faculty of Pharmacy

I invited you to a workshop.

"Safety and environmental protection"

Sunday 2018/10/14

12 p.m.

Dental College Theatre

For the educational, administrative and student body

[Faculty of Health interacts with "Environment for Us and Our Generations" Week](#)

The Faculty of Health and Rehabilitation Sciences interacted with Saudi Environment Week, launched by the Ministry of Environment under the slogan "Environment for us and for our generations".

The college displayed images of motivational phrases on the electronic ad display on the ground floor, such as "Let's instill environmental awareness in all of us to have a healthy and sustainable environment."

Students Rima Al-Aiban and Reem Al-Nuweiser presented an awareness lecture entitled "Environment for us and our generations" with the aim of providing advice and guidance for environmental protection, such as intensifying tree planting for its role in climate change, using biodegradable materials, and using rainwater by preserving it for use in irrigating plants, and referring to the damage caused by non-conservation of the environment such as air pollution and water pollution.

Environmental Pollution Research Chair

1- The speech of Mr. Chair A.D. Khairia bint Mohammed bin Ahmed Al-Qahtani:

Based on princess Nourah Bint AbdulRahman's vision and mission to be a comprehensive university for women distinguished by her educational leadership and scientific research, she contributes to building the knowledge economy with a community and global partnership. The Environmental Pollution Research Chair seeks to achieve this ambitious vision by developing several research projects that include prioritizing support for key areas of research, documenting communication and scientific cooperation between Princess Nourah University and other universities while serving the environment, promoting a culture of creativity, excellence and innovation and building influential strategic relationships with researchers and partners in various sectors of society and business. It also includes supporting outstanding research in the field of the environment and encouraging members to publish their scientific research in international journals classified to raise the university's reputation and reach the ranks of international universities. The chair will also contribute to increasing the scientific and practical efficiency of researchers and centers interested in pollution through cooperation and training. This chair serves all disciplines and sectors of the University, whether scientific, health or humanitarian, allowing the establishment of research groups of different disciplines to study any point in all its aspects.

2- The name of the chair financier:

The chair is funded by Princess Nourah Bint Abdul Rahman University

3- Vision:

Leadership in environmental research, pollution study and treatment methods.

4- The message:

Contribute to the service of the community by providing research that studies and addresses environmental problems of all kinds and through the transfer and localization of knowledge.

5- Goals:

1. Conducting and publishing a series of research resulting from the chair in internationally classified journals.
2. Establish local and international research partnerships with relevant entities.
3. Providing laboratory analysis services to the public and private sectors in the field of the environment.
4. Holding conferences, seminars and scientific workshops.
5. Providing scientific advice to government and private entities.
6. Develop the chair to work with self-financing in the future.
7. Creating an advanced research environment in environmental pollution
8. Develop pollution detection mechanisms and treatment methods.
9. Preparing undergraduate and master's students as researchers in specialized fields in pollution detection and treatment.
10. Promoting the quality and quantity of research focused on pollution treatment in Saudi centers and universities.
11. Create and develop new strategies to translate research results to improve the performance of pollution centers in the Kingdom.

6- Scientific Committee:

Dr. Osama Faqaha / Undersecretary of the Ministry of Agriculture, Environment and Water for Environmental Affairs.

Dr. Zeid Abdullah Al-Othman/ Professor of Analytical Chemistry, Faculty of Science, King Saud University.

Dr. Abdullah Suleiman Al Faraj / Professor of Chemistry and Minerals - Faculty of Food and Agriculture Sciences, King Saud University.

Dr. Mohammed Hamza Al-Saeed / Professor of Chemistry and Environmental Pollution - King Saud University.

A.Dr. Torches Young Women / Professor of Physical Chemistry - Faculty of Science - Princess Nourah University.

Al-Jawhara Al-Muqrin / Associate Professor of Nuclear and Radiophysics - Faculty of Science - Princess Nourah University.

Mudi Al-Otaibi / Assistant Professor of Plant Environment - Faculty of Science - Princess Nourah University.

7- Chair Coordinator:

A. Al-Bandari Abdul Aziz Al-Obaidan (Scientific Coordinator)

A. Sahab Al-Falij (Administrative Coordinator)

8- Chair Secretary:

A. Sarah Al-Sharif

9- Means of communication:

VGS-EPRC@pnu.edu.sa

0118235982

10- The achievements of the chair:

(Research chair [activities and programs.pdf](#))

[Princess Nourah University implements three environmental awareness campaigns relative to the sustainable development objectives](#)

In view of the role of Princess Nourah bint Abdulrahman University in achieving environmental sustainability, and its belief in the importance of active students' participation in various international forums and events related to the environment. The Department of Biology and the Community Service Unit at the College of Science have recently organized three environmental community awareness campaigns with slogans linked to the thirteenth objectives of private sustainable development in the climate, and the fifteenth of life on the land. In the presence of the head of the Biology Department, Dr. Laila Al-Shuraim, the college's vice-

rector, as well as several faculty members, administrative staff and the students.

As coordination and cooperation has been made with the General Department of Parks and Community Service in the Secretariat of the City of Riyadh to obtain various types of different annual flowering seedlings, cacti, perennial outdoor plants, and small trees to be cultivated by approximately (90) students among the fourth level students in the Biology Department within two weeks at a rate of one hour per day, under the supervision of Dr. Arwa Abdul Karim Al-Hukail.

This comes in line with the Kingdom's strategies towards the environment and the restoration of vegetation in Riyadh to reduce the damages related to drought and its negative effects, as an influential environmental mission and social responsibility to activate the role of students in society inside and outside the college and university. In addition to contributing to raising awareness and environmental sense with a number of Applied Ecology issues.

On the other hand, and to achieve the quality of educational outputs, in line with the achievement of the Kingdom's Vision 2030, the initiative has been taken to host (14) third-graders (American Diploma) students from Riyadh Najd Private Schools to attend the various campaigns and events and participate in applied activities such as afforestation. In order to increase the green areas inside the college and educate them about home gardening methods in addition to a scientific tour to learn about the laboratories of the Department of Biology and the herbal plants in the college.

The awareness campaigns varied to include the introduction of the World Day to Combat Desertification and Drought under the slogan (Vision is affiliation to achieve development), the introduction of the International Day for Biological Diversity, whose campaign was called (Our Vision 2030 Saves Our Environment). As well as the introduction of the International Day for Preserving the Ozone Layer and shedding light on the resulting global climate change and global warming under the slogan (Vision 2030 protects the environment).

The event was accompanied by three corners of environmental issues for the three campaigns to cover them from various aspects and link their issues to each other and to clarify the risk of continuing to pollute the environment with different pollutants. Several visual presentations, which have been designed and prepared by students, were presented. In addition to reviewing some international efforts and the Kingdom's efforts specifically the directives included in the Vision 2030 for environmental protection.

This came within the framework of promoting the principle of rationalization, reducing consumption and waste in natural resources, preserving biological diversity. As well as protecting it through nature reserves, sustainable development for it, preserving it, and directing renewable (clean and safe) energy such as solar energy, wind energy, etc. as a safe and clean alternative that protects and preserves the environment and contributes to reducing the breadth of the Ozone (O₃) layer hole.

The campaigns also presented recommendations and proposed solutions to contribute to limiting the exacerbation of these problems and controlling them and explaining some positive applied mechanisms to protect the environment. These recommendations emphasized the importance of solidarity and effective participation in eliminating pollution by limiting the use of all kinds of plastics, and the need to move to the use of safe alternatives as biodegradable plastics alternatives. As well as the possibility of using some insect repellent plants, especially in house rooms, as an alternative to the use of chemical pesticides. In addition to urging the rationalization of electricity and water consumption and preventing logging, and encouraging the participation of students in planning and implementing organized campaigns, including some positive activities and events, and developing a high sense of responsibility towards public property and cleanliness of the environment within university and college facilities.