

KSUMC Sustainability Report 2024

Aligning National Vision with Global Impact

Executive Department Of Strategic Planning
Organizational Excellence Section



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KSUMC Sustainability Report 2024: Executive Summary

King Saud University Medical City (KSUMC) stands at the forefront of sustainable healthcare, driving transformative change in alignment with Saudi Vision 2030 and the United Nations Sustainable Development Goals (SDGs). As a leading academic medical institution, we integrate sustainability into every facet of our operations—delivering exceptional patient care, advancing medical education, and pioneering innovative solutions for a healthier future.

Our Commitment in Action

Through our "**We Are Committed**" initiative, KSUMC has made significant strides in environmental stewardship, social responsibility, and ethical governance. Key highlights include:

Environmental Leadership

- 31% reduction in energy consumption, saving 41.5 million kWh/year.
- Solar power adoption, preventing 2,746 tons of CO₂ emissions annually.
- 47,000+ trees to be planted, supporting Saudi Green Initiative targets.
- Launched EV charging network to support Saudi Arabia's clean mobility transition.

Social Impact

- 31% female leadership representation, exceeding Vision 2030 workforce goals.
- Delivered 1M+ outpatient services with 86.9% patient satisfaction.
- Trained 8,000+ healthcare professionals annually, and having 126 accredited medical programs.
- Winning health volunteering program contributing to over 5,000 volunteer hours.

Innovation Ecosystem

- Developed 10+ patented medical devices through our research centers.
- Hosted Healthon Hackathon with 600,000 SAR in prizes for digital health solutions.
- 261+ research publications advancing medical science.

Humanitarian Impact

- 500+ cochlear implant surgeries restoring hearing worldwide with King Salman Humanitarian Aid and Relief Center.
- 60,000+ families served through our "Doctor for Each Family" initiative.

Operational Excellence

- 528 million ﷲ saved through cost-efficiency projects.
- 30+ international accreditations validating our quality.



This report reflects KSUMC's unwavering commitment to **sustainable excellence**—where world-class healthcare meets environmental and social responsibility. Together, we are building a legacy of **impact, innovation, and inclusivity** for generations to come.

"We Are Committed" to a healthier, greener, and more prosperous future.

Vision

To be a global academic medical leader that advances the practice of medicine and nurtures future generations of healthcare professionals.

Mission

Provide compassionate, excellent care to our patients and to advance healthcare, education, research and innovation.

Values



Patient-centric



Advance Education



Innovation



Excellence



Accountability



Quality



Pillar & Strategic Objectives



King Saud University Medical City is the largest and first university medical city in the Kingdom, consisting of:

3 MAIN HOSPITALS

1. King Khalid University Hospital
2. King Abdulaziz University Hospital
3. KSU Dental Hospital

8 CENTERS OF EXCELLENCE

1. King Fahad Cardiology and Cardiac Surgery Center
2. King Abdullah Ear Center
3. University Diabetes Center
4. Clinical Skills and Simulation Center
5. Sports Medicine Center
6. Prince Naif Center for Health Research
7. Sleep Medicine Center
8. National Center for Sudden Death (Hayat)

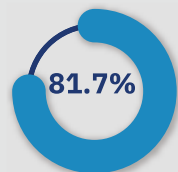
2 SPECIALIZED CENTERS

1. KSU Oncology Center
2. KSU Family Medicine Center

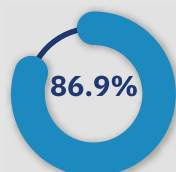


Timeline of King Saud University Medical City





81.7% Outpatient
satisfaction rate



86.9% Inpatient
satisfaction rate

+1 million
Outpatient clinic visits

2,172
Total bed capacity

+7,000
Employees

1,430
Consultant physicians

+27,000
Annual surgical procedures

682
Academic consultants

+456,000
Radiological exams

1,129
Physicians in residency, fellowships,
& medical certification programs

Approximately 13,835,111
Laboratory tests

657
Scholarships for postgraduate studies

+2.6 million
Medical prescriptions

28,198
Trainees at the Skills and Simulation Center

+528 million 
in savings from cost-efficiency projects

117
Postgraduate study programs
(Residency and fellowship)

Around 5,000
Non-physician trainees

12
Postgraduate academic study programs
(diploma, master's, and doctoral degrees)

Operational Capacity

Number of Inpatient
Beds (Bed Capacity) **773**

Number of Daily Beds **1,399**

Total Bed Capacity **2,172**

Operational Capacity

ER
Patients **178,836**

Outpatients **737,432**

Diabetes clinic
patients **27,787**

Inpatients **72,170**

**Total Operational
Capacity** **1,016,225**

**Fact & figures
about KSUMC**



KSUMC' Accreditations



CEO Message

“As a prominent hub of medical excellence in the Kingdom of Saudi Arabia, King Saud University Medical City (KSUMC) stands as a beacon of innovation, compassion, and quality care. The institution’s unwavering commitment to advancing medical research, education, and patient-centered healthcare has made it a model for integrated medical systems across the region.

KSUMC’s achievements in pioneering specialized healthcare services, embracing digital transformation, and fostering cutting-edge research have not only elevated the standards of care but also empowered the next generation of healthcare professionals. Its collaborations with international institutions and emphasis on continuous medical education underscore its dedication to global best practices.

Whether it is in the operating room, research lab, or classroom, KSUMC consistently demonstrates a culture of excellence, integrity, and service. It is an honor to witness and support the impact KSUMC continues to make in shaping the future of medicine in Saudi Arabia and beyond.



PROFESSOR AHMAD BIN SALAH HERSI
Chief Executive Officer of King Saud
University Medical City (KSUMC)



KSUMC's Sustainability Journey:

Aligning with Global Goals Through "We Are Committed"

King Saud University Medical City (KSUMC) has long been at the forefront of sustainable healthcare practices in the region. Our sustainability journey, deeply rooted in our institutional values, has evolved from individual initiatives to a comprehensive, strategic approach that aligns with both Saudi Vision 2030 and the United Nations Sustainable Development Goals (SDGs).

"We Are Committed" Program: A Strategic Milestone

In 2024, we formalized our sustainability efforts through the launch of our flagship "We Are Committed" program.

This strategic initiative represents:

1. Holistic Integration

- Consolidates all social and environmental initiatives under a unified framework.
- Ensures alignment with 12 of the 17 UN SDGs most relevant to healthcare.

2. Stakeholder Engagement

- Involves cross-departmental collaboration with 62 medical and non-medical committees.
- Engages leadership, staff, patients, and community partners.

3. Company Profile Template

- Implements consistent metrics and reporting across all sustainability initiatives.
- Establishes clear governance through our Board of Directors' oversight.

Robust Measurement & Continuous Improvement

Our program incorporates rigorous evaluation mechanisms:

Annual Maturity Gap Analysis

- Conducted using UN Communication on Progress framework.
- Benchmarked against Global Reporting Initiative (GRI) Standards.
- Assesses performance across environmental, social, and governance (ESG) dimensions.

Strategic Alignment with Global Frameworks

The "We Are Committed" program demonstrates how KSUMC operationalizes global sustainability commitments:

1. Environmental Stewardship

- Energy efficiency programs reducing consumption by 31%.
- Renewable energy projects preventing 2,746 tons of CO₂ annually.

2. Social Responsibility

- Ethical healthcare policies protecting vulnerable patients.
- Community health initiatives reaching underserved populations.



WE ARE COMMITTED

Future-Focused Sustainability Leadership

As we progress, KSUMC remains committed to:

1. Annual Maturity Gap Analysis

- Conducted using UN Communication on Progress framework.
- Benchmarked against Global Reporting Initiative (GRI) Standards.
- Assesses performance across environmental, social, and governance (ESG) dimensions.

This strategic, measurable approach ensures KSUMC not only meets but exceeds global sustainability expectations while delivering exceptional healthcare services. Our journey demonstrates that institutional commitment, when properly structured and measured, can create meaningful, lasting impact aligned with the world's most pressing sustainability challenges.

3 GOOD HEALTH
AND WELL-BEING



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



17 PARTNERSHIPS
FOR THE GOALS



3 GOOD HEALTH AND WELL-BEING



- Increase average life expectancy from 74 to 80 years.
- Offer a fulfilling and healthy life by improving the value of healthcare services.
- Raise our position from 26 to 10 in the social capital index.

Excellence in Healthcare Delivery Supporting "Good Health and Well-Being"

King Saud University Medical City (KSUMC) stands at the forefront of Saudi Arabia's healthcare transformation, delivering cutting-edge medical services that directly advance UN Sustainable Development Goal 3 (SDG 3) - ensuring healthy lives and promoting well-being for all at all ages. Our comprehensive approach aligns with both global health targets and Saudi Vision 2030's healthcare objectives through six key pillars:

1

ADVANCING MEDICAL EDUCATION & SPECIALIZED TRAINING (SDG 3.C)

Supporting the health workforce strengthening target

- **Exclusive sub-specialty programs** training Saudi Arabia's next generation of medical leaders.
- **Clinical excellence programs** enhancing healthcare provider capabilities.
- **Academic-medical partnerships** with King Saud University elevating regional standards.

2

COMPREHENSIVE VALUE-BASED HEALTHCARE (SDG 3.8)

Achieving universal health coverage through innovative services

- **Preventive health programs** reducing disease burden.
- **Advanced genetic testing** enabling precision medicine.
- **Specialized clinics in:**
Women's health (SDG 3.7)
Geriatric medicine (SDG 3.4)
Occupational health (SDG 3.9)
Mental health services (SDG 3.4)

3

"A DOCTOR FOR EACH FAMILY" INITIATIVE (SDG 3.8)

Implementing the WHO primary healthcare model

- **60,000+ beneficiaries** in personalized care programs.
- **Multidisciplinary teams** providing continuous care.
- **Preventive focus** reducing hospital admissions.

(Aligned with Saudi Vision 2030's preventive care targets)

4

HYAT CENTER: COMBATING NATIONAL CENTER FOR SUDDEN DEATH (SDG 3.4)

- **National referral center** established by royal decree.
- **Research-driven interventions** for sudden cardiac death.
- **Kingdom-wide impact** through collaborative networks.



5.

COMMUNITY HEALTH OUTREACH (SDG 3.3, 3.4, 3.7)

Health promotion and disease prevention.

- 43 awareness campaigns in 2024 alone.
- Bro-Run 2024 Flagship men's health initiative.
- Early detection programs for chronic conditions.



6.

AWARD-WINNING HEALTH VOLUNTEERING (SDG 3.D)

Strengthening health emergency preparedness.

- Ministry of Health-recognized program.
- Community-based interventions .
- Health emergency response capacity.

Measuring Our
SDG 3 Impact

SDG 3 Target

- 3.8 Achieve UHC
- 3.c Health workforce
- 3.8 Health Community



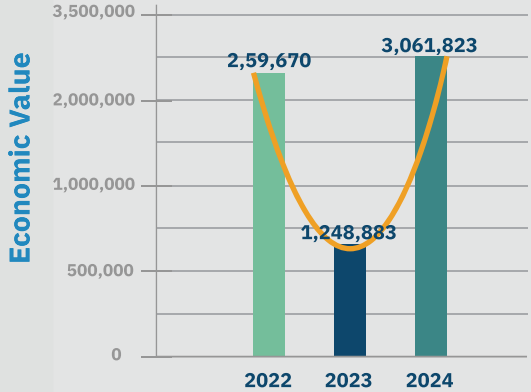
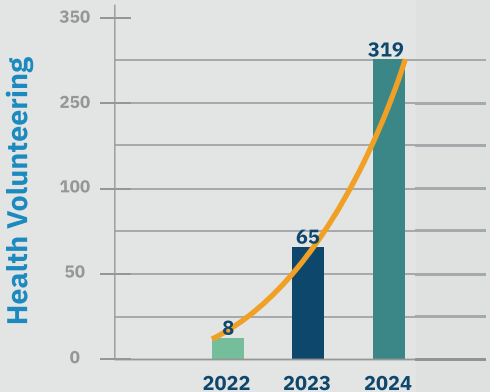
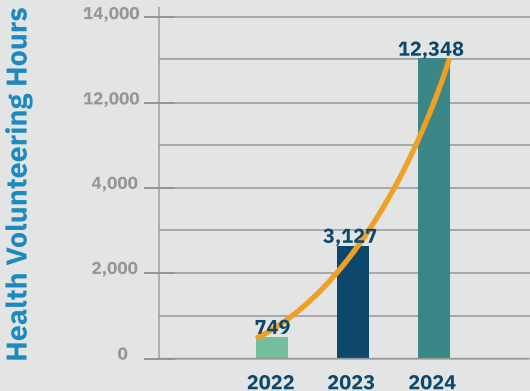
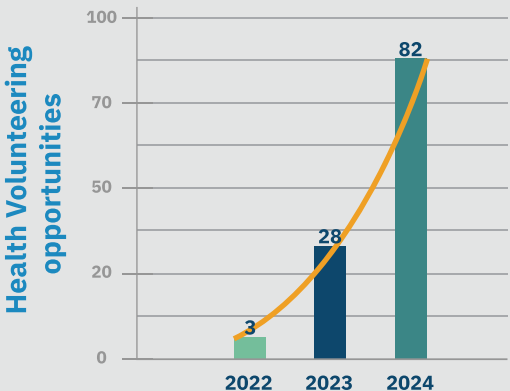
KSUMC Contribution

- Osraty Program
- Medical training programs
- Volunteer program



Key Metric

- 60,000+ enrolled families
- 150+ specialists trained annually
- 5,000+ volunteer hours



7.

Transformative Impact on Global Hearing Health (SDG 3.8)
Advancing Universal Health Coverage for Vulnerable Populations Through Strategic Humanitarian Partnerships

King Saud University Medical City (KSUMC), in collaboration with the **King Salman Humanitarian Aid & Relief Centre (KSrelief)**, is revolutionizing access to auditory healthcare worldwide. **Our Saudi Hearing Program** delivers life-changing interventions to underserved populations, directly advancing UN SDG 3.8 (Universal Health Coverage) through:

1. **Surgical Excellence & Large-Scale Impact**
500+ cochlear implant surgeries performed across low-resource regions.

92% success rate
in restoring functional hearing

Zero-cost interventions
eliminating financial barriers to care.

2. **Comprehensive, Multidisciplinary Care Model**
Our specialized teams provide end-to-end auditory rehabilitation:

Audiological Medicine Specialists
Advanced diagnostics & device programming.

Neurotology Surgeons
Precision implant procedures

Rehabilitation Experts
Postoperative speech & hearing therapy.

#نسمعهم

الملك سلمان
KING SALMAN
HUMANITARIAN AID



بسم السعودية
ابطال مشروع زراعة القوقعة
الجمهورية التركية

تعاون مركز الملك عبد الله التخصصي للأذن في المشروع الطبي التطوعي "سمع السعودية" لزراعة القوقعة لمتضرري
الزلازل في سوريا وتركيا مع مركز الملك سلمان للإغاثة والأعمال الإنسانية





رؤية
VISION
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

- Higher global university rankings for Saudi institutions.
- Reduced youth unemployment through better skills alignment.
- More Saudi graduates in high-demand fields (AI, engineering, healthcare).
- A digitally fluent workforce ready for Industry 4.0.



A Pioneering Approach to Healthcare Education and Life-long Learning

King Saud University Medical City (KSUMC) serves as a national leader in medical education, directly contributing to the achievement of United Nations Sustainable Development Goal 4 (SDG 4): Quality Education. Our comprehensive educational ecosystem integrates world-class training, cutting-edge research, and professional development to cultivate Saudi Arabia's healthcare leaders while addressing global education targets.

1.

Global Standard Accreditation Framework (SDG 4.3, 4.4)

Ensuring Technical and Vocational Education Quality

KSUMC maintains an unparalleled portfolio of prestigious international accreditations, including:



These credentials establish KSUMC as **Saudi Arabia's premier internationally-recognized medical training institution**, ensuring our programs meet the highest global standards.

2.

Transformative Postgraduate Medical Education (SDG 4.3)
Developing Saudi Arabia's Healthcare Human Capital

As the largest medical training hub in the Kingdom, KSUMC delivers:

126 Accredited Programs
across all medical specialties

8,050+ Postgraduate Trainees
(30% growth since 2020)

Pioneering Initiatives

1984

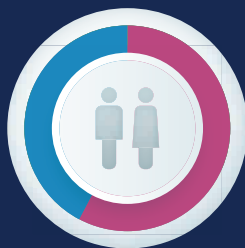
First postgraduate medical program in Saudi Arabia

7 surgical disciplines

Exclusive sub-specialty fellowships



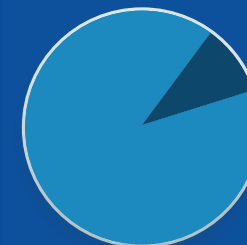
Male Trainees
49.00%



Female Trainees
51.00%

Trainees at KSUMC

Physicians
1,200



Non Physicians
6,850

Postgraduate Trainees 2024

18

3.

Internationally Recognized Excellence (SDG 4.b)
Global Standing in Medical Education

KSUMC's educational leadership is validated through:

**Top 250 Academic Medical
Centers Worldwide**
(Brand Finance)

Brand Finance



**Among Healthcare
Organization in Saudi Arabia**
(Newsweek)

Newsweek

**Leading Middle Eastern
Institution for Medical
Research**
(SCImago)



SCIMAGO
INSTITUTIONS
RANKINGS

These achievements reflect our **research-led teaching methodology & integration of clinical practice with academic rigor.**

19

**The University Medical City in the
global ranking of academic
healthcare institutions (SICMGO)
specializing in health research**

3rd



Kingdom of
Saudi Arabia

7th



Arab
countries

14th



Middle
East



**Gastroenterology
2025**

1st



Kingdom of
Saudi Arabia

1st



Arab
countries

10th



Middle East



**Otorhinolaryngology
2025**

1st



Kingdom of
Saudi Arabia

2nd



Arab
countries

9th



Middle East



**Pediatric
2025**

1st



Kingdom of
Saudi Arabia

3rd



Arab
countries

17th



Middle East

4.

Public Health Research Initiative (SDG 4.7) Bridging Education and National Development

In collaboration with the Saudi Public Health Authority, KSUMC has established a Public Health Research Initiative to:

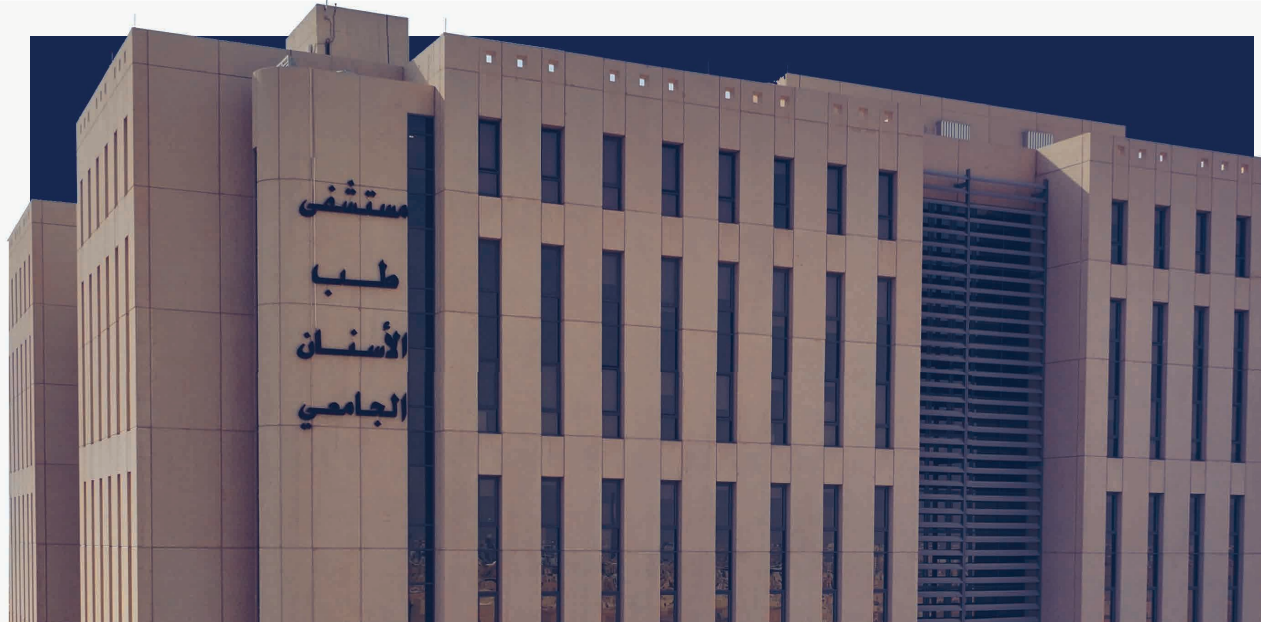
Measure and
enhance
quality of life
indicators



Align with
**Saudi Vision
2030's** well-be-
ing objectives



Promote
data-driven
health policies



5.

Training Program (SDG 4.5) Fostering Inclusive Educational Opportunities

KSUMC invests significantly in
workforce development:

Support Mechanisms

Flexible
scheduling



Clinical duty
adjustments



Tuition
reimbursement



Research
Leave
Provisions



International
scholarships



Degree Level

Enrolled Staff (2024)

Diploma

25

Bachelor's

26

Specialization

6

Master's

29

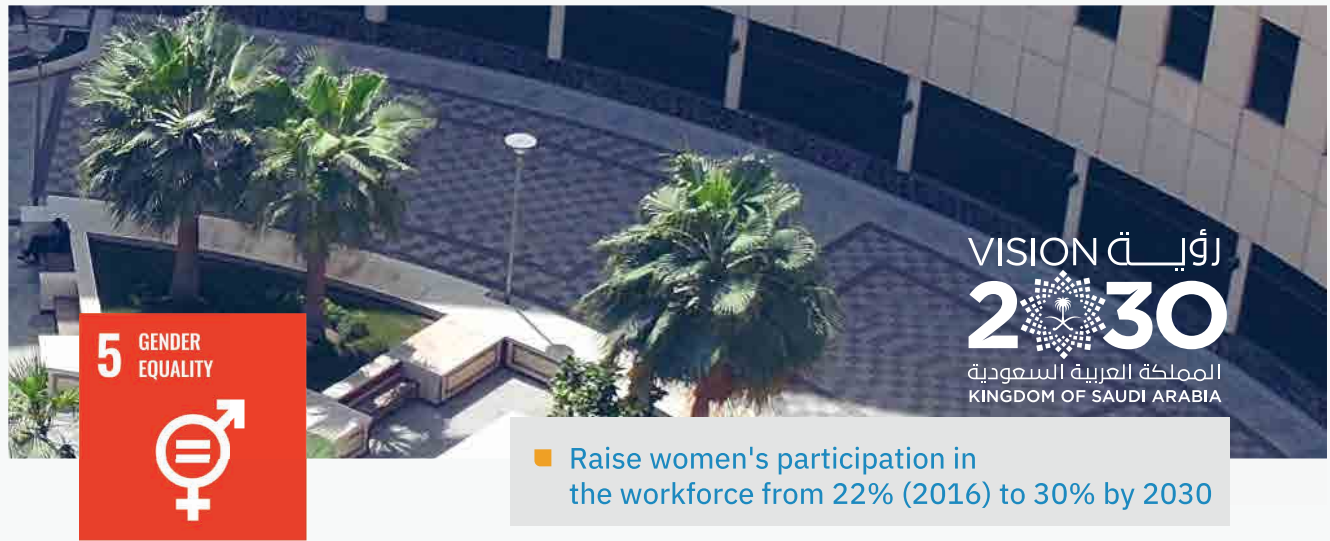
PhD

1

20

Strategic Commitment to Gender Parity in Healthcare Leadership

King Saud University Medical City (KSUMC) stands at the forefront of Saudi Arabia's gender equality transformation, actively supporting **UN Sustainable Development Goal 5 (SDG 5)** to "achieve gender equality and empower all women and girls." Our institutional reforms mirror the Kingdom's Vision 2030 priorities, creating systematic pathways for women's advancement in healthcare professions and leadership.



■ Raise women's participation in the workforce from 22% (2016) to 30% by 2030

1.

Legal Framework for Equal Opportunity (SDG 5.1, 5.c)
Institutionalizing Gender-Neutral Policies.
KSUMC operationalizes:

Article 3 of Saudi Labor Law
Prohibiting gender discrimination in:

- o Recruitment processes
- o Career advancement
- o Compensation structures

KSUMC Gender Equity Policy
Exceeding national requirements through:

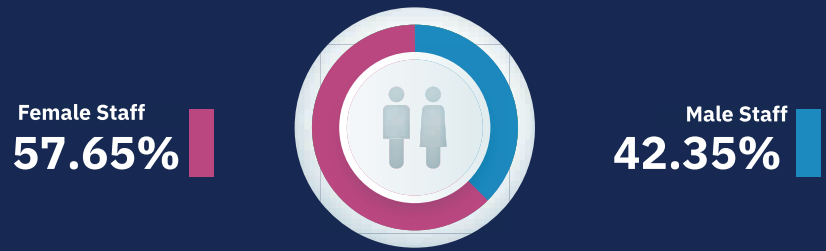
- o Blind recruitment protocols
- o Equal pay



Furthermore, KSUMC actively contributes to Saudi Vision 2030's objectives on women's empowerment by increasing female representation in leadership roles. Notably, women now occupy 31% of leadership positions within the institution, reflecting a progressive alignment with national goals for gender inclusivity and professional advancement.

This strategic focus underscores KSUMC's role as a model for institutional reform, driving sustainable change in line with the Kingdom's broader socio-economic transformation.

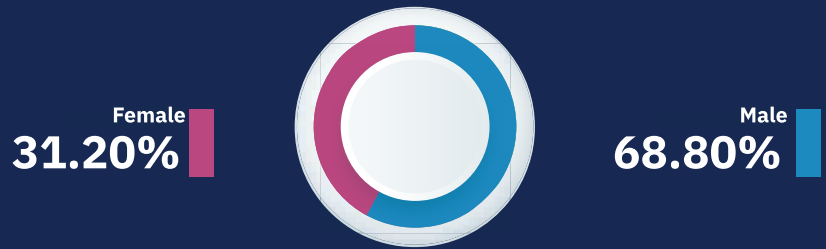
21



KSUMC Manpower



Trainees at KSUMC



Leadership at KSUMC



KSUMC Saudi Staff



Medical Directors

**Women
empowerment
at KSUMC**



- Expand wastewater treatment to reuse 100% of treated water (from 50% in 2023)
- Reduce per capita water consumption by 43% (from 263 liters/day in 2016 to 150 liters/day by 2030)
- Reduce water pollution by improving industrial and agricultural wastewater treatment.

As part of its commitment to environmental sustainability and healthcare excellence, King Saud University Medical City (KSUMC) has implemented a comprehensive water management strategy that aligns with UN Sustainable Development Goal 6 (SDG 6)—ensuring availability and sustainable management of water and sanitation for all. By prioritizing water efficiency, quality assurance, and long-term water security, KSUMC contributes to both Saudi Vision 2030's sustainability targets and global SDG 6 objectives.

* Impact

- ✓ Safe and clean water access for patients, staff, and visitors, fulfilling SDG 6.1 (universal drinking water access).
- ✓ Prevention of waterborne diseases, supporting SDG 6.3 (improved water quality).

1

Water Efficiency & Consumption Reduction (SDG 6.4 – Increase Water-Use Efficiency)

KSUMC has adopted cutting-edge water-saving technologies to minimize consumption while maintaining operational efficiency:

- Low-flow fixtures (faucets, aerators, dual-flush systems) in patient and staff facilities to reduce wastage.
- Smart irrigation systems with soil moisture sensors and native drought-resistant landscaping, significantly lowering outdoor water demand.
- Automated Building Management System (BMS) for real-time monitoring and leak detection, ensuring optimal water use.

* Impact

- ✓ Reduction in per capita water consumption, supporting SDG 6.4 (water-use efficiency).
- ✓ Alignment with Saudi Vision 2030's Qatrah Program, which aims to cut water usage by 43% by 2030.

2

KSUMC ensures high-quality water through rigorous testing and compliance:

- Monthly microbiological testing and biannual chemical analysis adhering to CBAHI, MOH, and WHO standards.
- Continuous BMS tracking for early detection of contamination or system failures.

Water Quality Monitoring & Safety (SDG 6.1 & 6.3 – Safe Water & Reduced Contamination)

* Impact

- ✓ Enhanced infection control, reducing healthcare-associated infections (HAIs).
- ✓ Compliance with SDG 6.3 (reducing water pollution in specialized settings).

3

Specialized Water Treatment for Critical Healthcare Needs (SDG 6.3 – Water Quality & Safety)

KSUMC employs advanced water purification systems in high-risk medical areas:

- Ultra-pure water treatment in Renal Dialysis Units (RDU) to ensure patient safety.
- Dental clinic water purification systems to prevent infections and maintain sterile conditions.
- Regular maintenance and monitoring to meet clinical-grade safety standards.

* Impact

- ✓ Improved infrastructure resilience, aligning with SDG 6.5 (sustainable water management).
- ✓ Supports Saudi Vision 2030's goal of 100% treated wastewater reuse by reducing dependency on potable water.

4

- KSUMC's dual-feed water supply system ensures uninterrupted water access, crucial for healthcare continuity.

Sustainable Water Supply & Resilience (SDG 6.5 – Integrated Water Resource Management)

* Impact

- ✓ Improved sanitation and hygiene, critical for SDG 6.2 (sanitation and hygiene for all).

5

Hygiene & Sanitation Standards (SDG 6.2 – Adequate Sanitation for All)

KSUMC maintains high sanitation standards through:

- Water-efficient and hygienic sanitation systems across all facilities.
- Regular audits to ensure compliance with infection control protocols.

Future Plan: Treated Sewage Effluent (TSE) Reuse
(SDG 6.4 & 6.6 – Efficiency & Ecosystem Protection)

KSUMC plans to integrate TSE reuse for landscape irrigation, reducing reliance on potable water.

* Impact

- ✓ Reduced water footprint, supporting SDG 6.4 (sustainable water use).
- ✓ Resource conservation, contributing to SDG 6.6 (protecting water-related ecosystems).
- ✓ Alignment with Saudi Vision 2030's goal of maximizing treated wastewater reuse.

- 50% of electricity from renewables by 2030.
- Reduce carbon emissions by 278 million tons annually by 2030.
- Cut domestic oil and gas consumption by 2 million barrels per day (equivalent) by 2030.

As part of Saudi Arabia's ambitious **Vision 2030** and its commitment to **50% renewable energy by 2030** and **net-zero emissions by 2060**, **King Saud University Medical City (KSUMC)** has implemented a **comprehensive sustainability** strategy to energy conservation, minimize carbon emissions, and promote clean energy adoption. These efforts directly support **UN Sustainable Development Goal (SDG) 7**, which seeks to "ensure access to **affordable, reliable, sustainable, and modern energy for all**."

1.

Energy Efficiency & Smart Infrastructure (SDG 7.3)

LED Lighting & Smart HVAC Systems:

- Transitioned to energy-efficient LED lighting across all medical and administrative facilities, reducing lighting-related electricity demand.
- Deployed automated and intelligent HVAC controls to optimize temperature based on occupancy, weather, and usage patterns.
- Installed VFDs for CO ventilation fans to reduce energy use by modulating motor speed based on real-time CO levels.
- Replaced outdated refrigerants with low-global warming potential (GWP) alternatives, aligning with international protocols on phasing out ozone-depleting substances.



Impact

- ✓ 31% reduction in energy consumption (saving 41,550,989 kWh/year).
- ✓ 31,900 tons of CO₂ emissions avoided annually.
- ✓ Improved indoor air quality and reduced HVAC operational load.

2.

Renewable Energy Integration (SDG 7.2)

SDG Target: Increase the share of renewable energy in the energy mix.

- On-site solar panel installations in 3 KCUH, 3 KAUH buildings to supplement grid power.

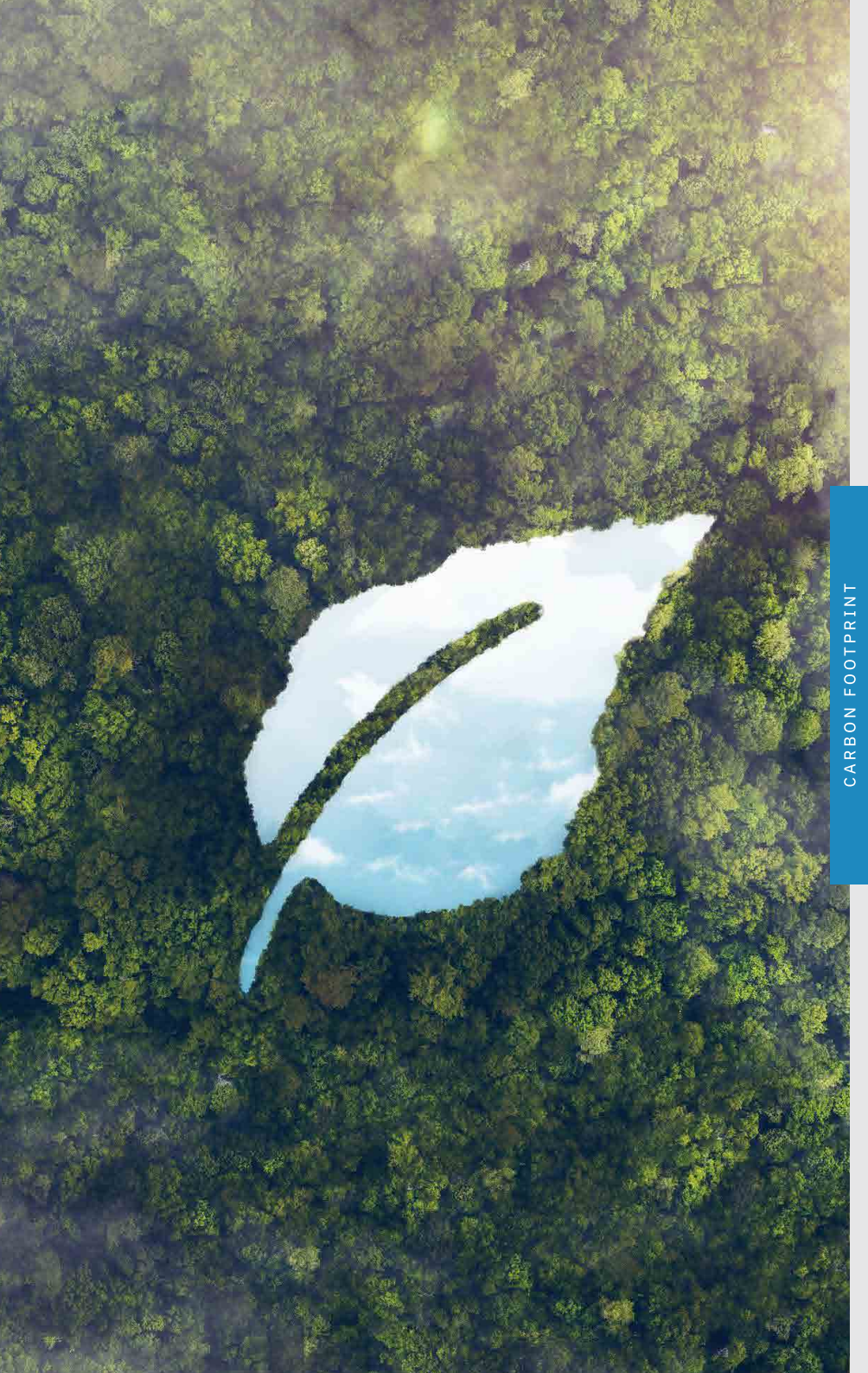


Impact

- ✓ 2,746 tons of CO₂ emissions prevented annually through solar energy.
- ✓ Supports Saudi Arabia's National Renewable Energy Program (NREP).



SOLAR PANEL



3.

Carbon Footprint Tracking & Transparency (SDG 7.a & SDG 13)

SDG Target: Increase reliance on clean energy, boost energy conservation, and implement a climate mitigation strategy.

KSUMC's Carbon Accounting:

- **Real-time energy monitoring systems** to track emissions.
- **Annual sustainability reporting** aligned with **global ESG standards**.

Impact



✓ Total emissions reduced to 34,646 tons/year (equivalent to 519,703 trees sequestering carbon for 10 years).

✓ Supports Saudi Arabia's Net-Zero by 2060 pledge.

4.

Electric Vehicle (EV) Infrastructure (SDG 7.1 & SDG 11)

SDG Target: Promote clean and modern energy for transport.

KSUMC's EV Charging Stations:

Installed EV charging ports to encourage electric mobility.

Aligns with Saudi Arabia's EV adoption goals (e.g., 30% EVs in Riyadh by 2030).

Impact



✓ Reduces fossil fuel dependency in transportation.

✓ Supports national carbon reduction targets.

شحن سيارات كهربائية Electrical Car Charging

جامعة
الملك سعود
King Saud University
المدينة الطبية الجامعية



EV INFRASTRUCTURE



- Reduce unemployment from 11.6% (2016) to 7% by 2030.
- Increase women's participation in the workforce to 30% (achieved early, now aiming higher).
- Increase Saudi employment in high-skilled jobs (especially in tech and healthcare).
- Increase tourism's contribution to GDP from 3% to 10% by 2030
- Train 20,000+ data and AI specialists by 2030

Driving Decent Work and Sustainable Economic Development in Healthcare

King Saud University Medical City (KSUMC) serves as a catalyst for Saudi Arabia's economic transformation, directly advancing **UN Sustainable Development Goal 8 (SDG 8)** to "promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all." Our multi-dimensional approach combines workforce development, technological innovation, and strategic infrastructure projects to support both national economic priorities and global development targets.

1. Workforce Development & National Capacity Building (SDG 8.5, 8.6)

Creating a World-Class Healthcare Workforce

- 8,000+ healthcare professionals trained annually
- 126 accredited programs (diplomas, residencies, fellowships)
- 55% Saudization rate (exceeding healthcare sector average)
- 57.65% female workforce participation
- 31% female leadership representation

"Our training programs supply 18% of Saudi Arabia's specialist physicians annually, reducing reliance on foreign expertise."

2. Mega Projects Stimulating Economic Growth (SDG 8.1, 8.9)

Transformative Infrastructure Development

- A. University Family Medicine Center (2025 Completion)
9,227 sqm facility with 66 clinics
- B. King Fahad Cardiology Center (Q4 2025)
120-bed specialized facility

3. Digital Transformation & AI Integration

- Mandating **AI foundation courses** for all staff, ensuring readiness for future healthcare innovations.
- Enhancing efficiency and service quality through cutting-edge technology

**B. King Fahad
Cardiology Center**
(Expected in Q4 2025)



**A. University
Family Medicine
Center**
(Expected Completion in 2025)



- Raise Saudi Arabia's ranking in the Global Innovation Index (GII) (aiming for top 20 by 2030)

- Carbon emissions reduction – 278M tons/year → 130M tons by 2030 (via Circular Carbon Economy).

- Energy efficiency programs – 30% reduction in industrial energy waste by 2030

King Saud University Medical City (KSUMC) is dedicated to providing world-class **physical and digital infrastructure** in alignment with **Saudi Arabia's Vision 2030** and **UN Sustainable Development Goal 9 (Industry, Innovation, and Infrastructure)**.

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



- Increase R&D Spending to 2.5% of GDP by 2040
- Increase number of Patents & IP filings

1. Robust Infrastructure Compliance (SDG 9.1, 9.4)

KSUMC ensures all facilities adhere to the highest national and international standards, including:

- **MOMRA** (Ministry of Municipal & Rural Affairs)
- **SBC** (Saudi Building Code)
- **Civil Defense** (Fire & Safety Compliance)
- **CBAHI** (Central Board for Accreditation of Healthcare Institutions)

Physical Infrastructure Regulations

Data Protection & Privacy Laws

- **Digital Government Authority (DGA) Regulations**
- **Cybersecurity Compliance** (National Cybersecurity Authority - NCA)
- **Anti-Cybercrime Law & Digital Content Regulations**
- **Health Data Governance** (MOH & CBAHI)

Digital Infrastructure & Cybersecurity

2. Advancing Research & Development (R&D) (SDG 9.5, 9.b)

KSUMC fosters innovation through specialized research centers and publications:

32

2024 Research Contributions

Department	Research Output
Prince Naif bin Abdul-Aziz Health Research	19
University Sleep Disorders Center	38
King Abdullah Ear Specialist Center (KAESC)	32
University Diabetes Center	27
King Fahad Cardiac Center	101
Clinical Trial Section	34
Other Research Publications	10
TOTAL	261

Patents & Medical Innovations

KSUMC has developed groundbreaking medical devices, including:

01

Orthopedics Department

Surgical Retractor.

Retractor with suction for Orthopedic Surgery.

HIP Spica Cast Application Stand.

HIP Spica Cast Application Device.

Method and system for treatment of early onset scoliosis.

02

ENT Surgery

A post-nasal suction device.

A surgical instrument for the removal of frontal nasal recess cells.

03

Cardiac Surgery

Cardiac Surgical Forceps.

A surgical instrument used in cardiac and thoracic surgeries.

Digital Health Innovation: "Healthon" Hackathon (SDG 9.c)

In 2025, KSUMC launched "Healthon", a **600,000 SAR** prize-awarding hackathon to drive digital health innovation. Key focus areas include:

AI-Powered
Predictive
Healthcare

IoT for Chronic
Disease
Management

Smart Health-
care Solutions

Big Data in
Healthcare
Analytics

Cybersecurity
in Healthcare

User Experi-
ence (UX) in
Health Tech

KSUMC is a leader in **sustainable infrastructure, cutting-edge research, and digital transformation**, reinforcing its commitment to **UN SDG 9** and positioning Saudi Arabia at the forefront of **medical innovation**.

Healthon

by Numbers

Impact & Participation



People Power



Opportunities & Engagement





- Increase Femal Workforce Participation to 30%+.

In alignment with United Nations Sustainable Development Goal (SDG) 10—Reduced Inequalities—our organization upholds a steadfast commitment to equitable access, non-discrimination, and inclusive policies across healthcare services, employment practices, and workplace ethics.



1

Universal Access to Healthcare (SDG 10.2, 10.3)

In compliance with Saudi Arabia’s national healthcare laws and regulations, we ensure that all citizens and residents have equal access to medical services, without discrimination based on gender, nationality, disability, or socioeconomic status. Our policies are designed to:

- Guarantee fair and impartial treatment in healthcare delivery.
- Eliminate barriers to access for vulnerable and marginalized groups.
- Promote health equity through inclusive service design.

2

Equal Employment Opportunities in Compliance with Saudi Labor Law (SDG 10.4)

In adherence to Article (3) of the Saudi Labor Law, which mandates non-discrimination in employment, our institutional policies enforce:

- Merit-based hiring, prohibiting bias in recruitment, promotions, or workplace evaluations.
- Zero tolerance for discrimination based on gender, age, disability, ethnicity, or any other protected characteristic.
- Inclusive workforce development programs, ensuring equal opportunities for career advancement.

3

Protection of Patient Rights & Dignity (SDG 10.3)

Our Patients’ Rights and Responsibilities Policy safeguards the fundamental rights of all individuals under our care by:

- Ensuring confidentiality, informed consent, and respectful treatment.
- Providing transparent grievance mechanisms for any violations.
- Upholding ethical medical practices in line with international human rights standards.

4. Safeguarding Staff Rights Through Ethical Workplace Policies (SDG 10.2, 10.3)

To foster a fair and respectful work environment, we enforce:

- A Grievance and Ethical Conduct Committee to address workplace concerns impartially.
- Anti-harassment and anti-retaliation policies, protecting employees who report misconduct.
- Regular training on workplace equality, diversity, and inclusion.

KSUMC Manpower



Female Staff **57.65%** Male Staff **42.35%**

Trainees at KSUMC



Male Trainees **49.00%** Female Trainees **51.00%**



- EV infrastructure – 30% of cars in Riyadh to be electric by 2030.
- Plant 10 billion trees under the Saudi Green Initiative.
- Increase urban green cover (e.g., Riyadh's 9% green space target).
- Cut carbon emissions by 278 million tons/year via renewable energy.
- 50% renewable energy target by 2030 and net-zero by 2060.

As a leader in healthcare innovation, King Saud University Medical City (KSUMC) has implemented comprehensive sustainability initiatives that directly support **UN Sustainable Development Goal 11 (Sustainable Cities and Communities)** while contributing to **Saudi Vision 2030's environmental and social objectives**. Our integrated approach combines **green infrastructure, resilient health-care systems, and sustainable urban mobility** to create a model for future-ready medical facilities.

1. Sustainable Infrastructure & Energy Efficiency Supporting SDG 11.6 (Reducing Urban Environmental Impact)

Aligned with Saudi Arabia's 50% renewable energy target by 2030 and net-zero commitment by 2060, KSUMC has implemented:

Energy-efficient LED lighting and smart HVAC systems, reducing energy consumption by

20%

Hospital-wide waste reduction and recycling programs, diverting 30% of operational waste from landfills

30%

Carbon footprint tracking and reporting systems to monitor progress toward decarbonization.

These measures demonstrate our commitment to SDG 11.6 by minimizing the environmental footprint of our healthcare operations in an urban setting.

2. Sustainable Urban Mobility Solutions

Advancing SDG 11.2 (Safe, Affordable Transport Systems)

KSUMC enhances accessibility while reducing traffic congestion and emissions through:

Strategic metro station integration with direct campus access, encouraging public transport use among

1000+

daily staff and patients.

Dedicated shuttle services operating every

3-5 minutes

between medical facilities and transit hubs.

KSUMC transportation (buses) go from and to KSUMC.

15%

of our staff uses it.

EV charging infrastructure supporting the transition

EV CHARGING

to electric mobility in line with national targets

This urban mobility strategy directly contributes to SDG 11.2 by providing equitable, low-carbon transportation options.

METRO STATION



3. Pandemic-Resilient Healthcare Infrastructure

Addressing SDG 11.5 (Reducing Disaster Impacts)
As a pandemic-ready hospital, KSUMC has developed comprehensive crisis response systems:



DEDICATED DISASTER AND EMERGENCY UNIT WITH:

- Real-time outbreak monitoring capabilities
- Regular emergency preparedness drills
- Scenario-based response protocols



DIGITAL HEALTH INTEGRATION FEATURING:

- Telemedicine platforms handling 1,200+ e-visits weekly
- E-prescription systems reducing physical contact



WORKFORCE RESILIENCE PROGRAMS INCLUDING:

- Quarterly pandemic response training
- Community health education initiatives

4. URBAN GREENING & BIODIVERSITY ENHANCEMENT

Contributing to SDG 11.7 (Inclusive Green Spaces)

This urban greening initiative directly advances SDG 11.7 by creating healthier, more sustainable healthcare environments.



KSUMC ACTIVELY SUPPORTS SAUDI ARABIA'S **10 BILLION TREES INITIATIVE** THROUGH:

12% expansion of green spaces across medical campus

47,000+ TREES PLANTED COVERING 1 MILLION M², IMPROVING:

- Urban air quality.
- Heat island mitigation.
- Patient and staff wellbeing.

Biodiversity corridors integrating native plant species



5.

Having a pandemic-ready hospital designed to prevent, detect, respond to, and recover from large-scale health crises (like COVID-19 or future pandemics) with minimal disruption by the following



DIESTER AND EMERGENCY UNIT

where they build policies, strategies and drills for diester cases such as pandemics.



TELEMEDICINE & DIGITAL HEALTH

such as e- visits and E-prescriptions.



WORKFORCE TRAINING & PUBLIC AWARENESS



"PANDEMIC RESPONSE RILLS"

for medical staff and Community education (e.g., mask use, outbreak reporting).

6.

One of the university Goals is to do 12% green space expansion (47,000+ trees planted across 1M m²), by 2027 supporting Saudi Arabia's 10 billion trees initiative by 2050.

- Saudi Green Initiative (SGI) – targeting 50% renewable energy by 2030.
- National Waste Management Strategy (NWMS) – targeting 81% landfill waste diversion by 2035.
- Reduce water usage by 43% by 2030.
- Increase digital economy contribution to GDP – Target: 19.2% by 2030.
- 70% of patients using digital health services (telemedicine, e-prescriptions).
- 100% electronic health records (EHR) adoption in hospitals.



King Saud University Medical City (KSUMC) is committed to promoting sustainable consumption and production in alignment with **UN Sustainable Development Goal (SDG) 12, Saudi Vision 2030**, and the Kingdom's **net-zero emissions targets**. Through strategic initiatives in waste management, food waste reduction, sustainable mobility, renewable energy adoption, and digital transformation, KSUMC is driving environmental stewardship while enhancing operational efficiency.

RESPONSIBLE WASTE
MANAGEMENT



KSUMC adheres to GCC and Saudi MOH regulations, ensuring safe and compliant waste disposal. In 2022-2023, the medical city generated 1,379 tons of hospital waste, 50% of which was hazardous. To mitigate this, KSUMC’s Environmental Policy sets an ambitious target:

10% annual reduction in hazardous medical waste.

Enhanced waste segregation and recycling programs.

SUSTAINABLE WATER
MANAGEMENT



Water is critical for medical operations, sanitation, and facility maintenance. Key achievements include:

2023 total water consumption: 22,296 m³

2024 reduction: 3,344.4 m³ (15% decrease), saving 20,066.4 SAR annually

2026 target: 267,180 m³ annual reduction with an investment of 2,765,240 SAR, projected to yield 2,785,306.4 SAR in annual savings

RENEWABLE ENERGY & CARBON
FOOTPRINT REDUCTION



Aligned with Saudi Arabia’s 50% renewable energy target by 2030 and net-zero by 2060, KSUMC has implemented:

Energy-efficient LED lighting & smart HVAC systems

Waste reduction & recycling programs

LEED-compliant green building standards

Carbon footprint tracking & reporting
Key Achievements:

31% energy reduction (41,550,989 kWh/year)

31,900 tons of CO₂ reduced annually

Solar installations preventing 2,746 tons of CO₂/-year

Total emissions reduced to 34,646 tons (equivalent to 519,703 trees sequestering carbon for 10 years)

MINIMIZING
FOOD WASTE



KSUMC has implemented an electronic Nutrition Services System to optimize food resource management, featuring:

Precision-based food quantity calculations

Efficient inventory management

Real-time meal distribution monitoring
This initiative has significantly reduced food waste while improving cost efficiency.

SUSTAINABLE MOBILITY:
EV CHARGING PROJECT



As part of its 2025 sustainability strategy, KSUMC is deploying Electric Vehicle (EV) charging infrastructure, offering:

Reduced CO₂ emissions (6 kg/100 km for EVs vs. 25 kg for fuel vehicles.)

Cost savings (7.5–15 SAR/100 km for EVs vs. 26–56 SAR for fuel vehicles.)

Mitigation of urban heat island effect through lower combustion emissions.

DIGITAL TRANSFORMATION FOR
SUSTAINABILITY



Supporting Saudi Vision 2030’s digital goals, KSUMC has:

Digitized 500+ services, serving 1M+ external & 9,000+ internal users.

Integrated with NPHIES (National Platform for Health Information Exchange.)

Conducted 2,556 virtual visits, reducing paper use and travel emissions.

- Increase the share of renewable energy (solar, wind) in the energy mix to 50% by 2030 (under the Saudi Green Initiative).
- Net-zero emissions by 2060.

Aligned with **Saudi Arabia's Vision 2030** renewable energy and net-zero commitments, **King Saud University Medical City (KSUMC)** has implemented a comprehensive sustainability strategy that directly contributes to **UN Sustainable Development Goal 13** (Climate Action) by reducing carbon emissions, enhancing energy efficiency, and promoting eco-friendly urban mobility.

1.

Aligning with SDG 13 & Saudi Net-Zero Goals

Phase 2: Mitigation & Facility Protection

To safeguard operations, KSUMC implemented:

- Resilient building designs (enhanced insulation, cooling systems).
- Smart monitoring (BMS, Condition-Based Maintenance) for real-time risk management.
- Backup power & cooling to ensure continuity during climate disruptions.

Phase 1:

Climate Risk Assessment

KSUMC conducted a Hazard Vulnerability Assessment (HVA) using the KASIER methodology to identify climate risks (extreme heat, power disruptions, flooding). This data-driven approach ensures proactive resilience planning.

Phase 3:

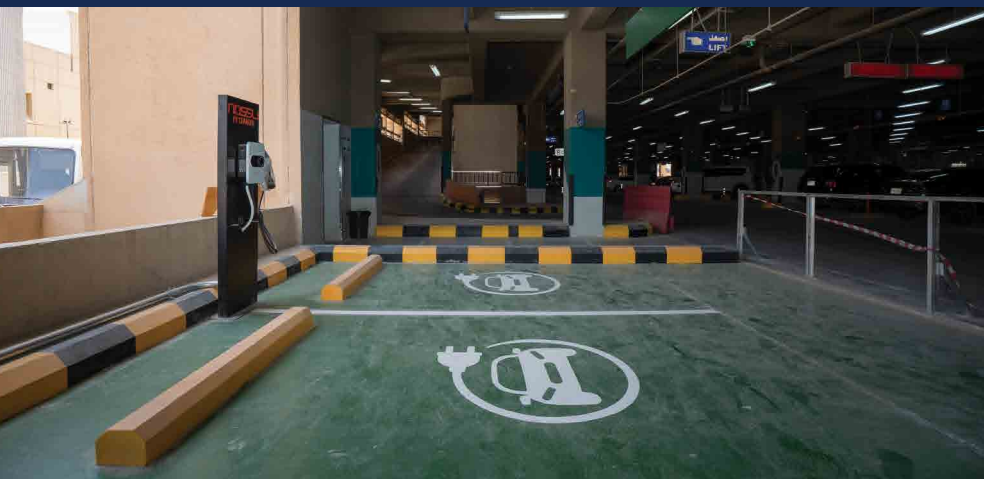
Decarbonization & Emissions Reduction

KSUMC tackles climate change at its source by:

- Energy efficiency upgrades (LED lighting, HVAC optimization).
- Solar energy integration to reduce reliance on fossil fuels.
- EV charging stations to promote low-carbon transport.

* Impact

- ✓ Strengthened healthcare resilience (SDG 13.1, 13.2).
- ✓ Reduced emissions (SDG 13.3), supporting Saudi Arabia's Net-Zero 2060 pledge.



2. Sustainable Urban Mobility

(SDG 13.2, Linked to SDG 11.2 – Sustainable Transport)

To reduce transport-related emissions, KSUMC has implemented:

- **Metro station integration** (1,000+ daily staff/-patients using public transit.)
- **High-frequency shuttle services** (every 10 minutes) reducing private vehicle dependency
- **15% staff adoption** of KSUMC transportation -buses.
- **EV charging infrastructure** accelerating electric mobility adoption.



3. Green Spaces & Biodiversity

(SDG 13.1 – Climate Resilience)

KSUMC enhances climate adaptation and patient well-being through:

- **47,000+ trees planted** (1 million m² coverage) sequestering CO₂ and mitigating urban heat
- **12% expansion of green spaces improving:**
 - **Air quality** (reducing respiratory health risks)
 - **Heat island effect** (lowering cooling energy demands)
 - **Biodiversity corridors** with native species promoting ecological balance.



رؤية
VISION
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

- Develop effective, accountable, and transparent institutions.
- Reduce all forms of violence and related death rates.
- Ensure public access to information and protect fundamental freedoms.
- Substantially reduce corruption and bribery in all forms.

King Saud University Medical City (KSUMC) exemplifies a strong commitment to **UN Sustainable Development Goal (SDG) 16**, which promotes **peaceful, Justice, and inclusive institutions** through **good governance, accountability, transparency, and equitable access to justice**.

1. STRONG GOVERNANCE & INSTITUTIONAL ACCOUNTABILITY (SDG 16.6, 16.7)

SDG Target:

Develop effective, accountable, and transparent institutions at all levels.

KSUMC'S PRACTICES:

Board of Directors Oversight:

Board of Directors Oversight:

Strategic decisions undergo rigorous review by the Board, ensuring alignment with sustainability and ethical healthcare delivery.

Board of Directors



Prof. Abdullah Al-Salman
President of KSU-Chairman



Prof. Yazeed Al-Ashaikh
Vice-President of KSU for
Graduate Studies and
Scientific Research-
Member



Prof. Ahmad Hersi
CEO of KSUMC-Member and
Board Secretary



Prof. Ghada Bin Saif
College of Medicine Faculty
Member-Member



Prof. Fahad Al-Khudairy
Dean of the College of
Dentistry-Member



Prof. Bandar Al-Jefin
Dean of the College of
Medicine-Member



Dr. Humood Al-Harbi
Dean of the College of
Nursing-Member



Dr. Salah Al-Faqeeh
College of Medicine Faculty
Member-Member



Dr. May Al-Rashid
Dean of the College of
Applied Medical
Sciences-Member



**Dr. Abdulmajeed
Almubrad**
Dean of Prince Sultan bin
Abdulaziz College for
Emergency Medical
Services-Member



Dr. Amer Al-Anzy
Dean of the College of
Pharmacy-Member



Prof. Abdulaziz Al-Salf
College of Medicine Faculty
Member-Member

62

Corporate & Medical Committees: These committees (33 at the corporate level) facilitate unbiased, shared decision-making, reducing conflicts of interest and promoting institutional integrity.

KSUMC Committees

Corporate Level

33



Hospital Level

62

30+

Accreditations & International Rankings: Recognition from Brand Finance, Newsweek, and Scimago reflects adherence to global best practices in governance and healthcare quality.

Brand Finance®



Newsweek



SCIMAGO
INSTITUTIONS
RANKINGS

48

2. PROMOTING JUSTICE, SAFETY, & NON-VIOLENCE (SDG 16.1, 16.3, 16.A)

KSUMC'S POLICIES & PROCEDURES:

CODE WHITE (VIOLENCE PREVENTION):



Protects staff and patients from aggressive behavior, ensuring a **safe healthcare environment**.

WORKPLACE VIOLENCE REPORTING SYSTEM:



Allows employees and patients to report incidents **without fear of retaliation, upholding justice**.

PATIENT PROTECTION TEAM & VULNERABLE PATIENT POLICIES:



Safeguards **high-risk groups** (e.g., abuse victims, pregnant women outside wedlock) through **ethical and legal protections**.

CLINICAL ETHICS GUIDELINES:



Ensures **fair, unbiased treatment** for all patients, aligning with **medical human rights principles**.

3. TRANSPARENCY & PATIENT RIGHTS (SDG 16.6, 16.10)

KSUMC'S INITIATIVES:

PATIENT PORTAL & MEDICAL RECORDS ACCESS



Patients can **view their health data, reports, and treatment plans**, ensuring full transparency.

PATIENT & FAMILY ADVISORY COUNCIL (PFAC):



Engages patients and families in **policy-making and service improvements**, promoting **participatory governance**.

OCCURRENCE VARIANCE REPORTING (OVR):



Tracks medical errors and near-misses, ensuring **accountability and continuous improvement**.

Services



Appointments



Lab



Pharmacy



Radiology



Vaccines



Reports



Family Members



Health Metrics



Education Material



Doctors

4. JUSTICE IN MEDICAL CARE & COMPLAINT RESOLUTION (SDG 16.3, 16.B)

KSUMC'S MECHANISMS:

PATIENT COMPLAINTS POLICY:



A structured grievance system ensures fair investigations and resolutions.

MEDICAL ETHICS COMMITTEES:



Review complex cases (e.g., end-of-life care, consent disputes) to uphold ethical justice.

LEGAL & COMPLIANCE FRAMEWORKS:



Ensures adherence to Saudi healthcare laws and international standards, preventing negligence.



- Become a global tech & AI hub.
- Train 1 million Saudis in digital skills.
- ELead regional sustainability efforts.

King Saud University Medical City (KSUMC) has demonstrated exceptional commitment to fostering strategic partnerships with leading national and international organizations. Through collaborative initiatives, KSUMC aligns its efforts with both the United Nations Sustainable Development Goals (SDGs) and Saudi Vision 2030, driving advancements in healthcare innovation, research, and sustainable development. By engaging in high-impact alliances, KSUMC reinforces its role as a key contributor to national and global health objectives while supporting the Kingdom's transformative vision for a knowledge-based economy and enhanced societal well-being.



PARTNERSHIPS

NO.	KSUMC'S STRATEGIC PARTNERSHIPS	UN SDGS	THE GLOBAL GOALS	NO.	KSUMC'S STRATEGIC PARTNERSHIPS	UN SDGS	THE GLOBAL GOALS
1	 <p>مركز جونز هوبكنز أرامكو الطبي Johns Hopkins Aramco Healthcare</p>	 	<ol style="list-style-type: none"> Decent work and economic growth. Industry innovation and infrastructure. 	7		 	<ol style="list-style-type: none"> Good health and well being.
2	 <p>مستشفى صحة الافتراضي SEHA VIRTUAL HOSPITAL</p>	  	<ol style="list-style-type: none"> Affordable and clean energy. Decent work and economic growth. Industry innovation and infrastructure. 	8	 <p>جمعية السياحة الصحية HEALTH TOURISM ASSOCIATION</p>	   	<ol style="list-style-type: none"> Good health and well-being. Decent work and economic growth. Industry innovation and infrastructure. Life on land.
3	 <p>مركز التأمين الصحي الوطني Center for National Health Insurance</p>	 	<ol style="list-style-type: none"> Decent work and economic growth. Industry innovation and infrastructure. 	9	 <p>غازكو GASCO</p>		<ol style="list-style-type: none"> Decent work and economic growth.
4	 <p>abbvie</p>	  	<ol style="list-style-type: none"> Good health and well-being. Decent work and economic growth. Industry innovation and infrastructure. 	10	 <p>وزارة الثقافة Ministry of Culture</p>	 	<ol style="list-style-type: none"> Good health and well-being. Quality Education.
5	 <p>Takeda</p>	  	<ol style="list-style-type: none"> Good health and well-being. Decent work and economic growth. Industry innovation and infrastructure. 	11	 <p>جمعية زهرة ZAHRA ASSOCIATION</p>	   	<ol style="list-style-type: none"> No poverty Good health and well-being. Decent work and economic growth. Reduced inequalities
6	 <p>وزارة الصحة Ministry of Health</p>	  	<ol style="list-style-type: none"> Good health and well-being. Decent work and economic growth. Industry innovation and infrastructure. 	12	 <p>SAUDI ESPORTS FEDERATION</p>	 	<ol style="list-style-type: none"> Good health and well being Industry innovation and infrastructure.



THANK YOU