Southern Technical University - SDG 6 Benchmarking Report

This report provides an in-depth analysis of Southern Technical University's (STU) performance in relation to SDG 6: Clean Water and Sanitation. By comparing STU's performance on a global, regional, and national level, this report offers insights and strategic recommendations for improvement. Key metrics, action plans, and KPIs are also included to assist STU in aligning with SDG 6 objectives.

1. Benchmark Analysis

The following analysis compares STU's performance with institutions on a global scale, within the Arab region, and within Iraq. This benchmarking provides a perspective on STU's standing and areas for potential improvement.

2. Descriptive Statistics Overview

The table below summarizes key descriptive statistics for SDG 6 scores. STU's performance is contextualized against global averages, Arab region institutions, and universities in Iraq, providing a foundation for targeted improvements.
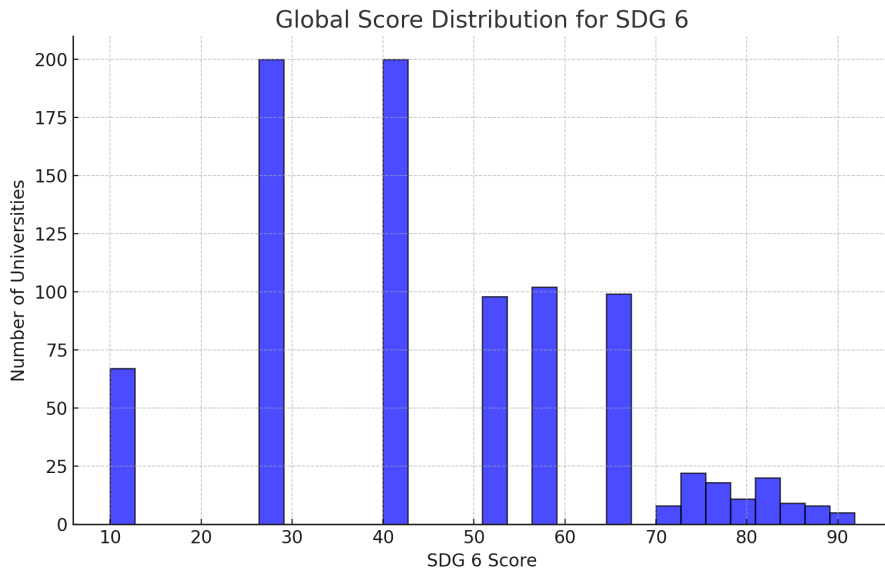
Statistic	Global Average	Arab Region Average	Iraq Average
Count	867.00	134.00	25.00
Mean	46.51	44.00	39.92
Std	19.86	18.03	16.28
Min	10.00	10.00	10.00
25%	27.15	27.15	27.15
50%	42.25	42.25	42.25
75%	58.90	58.90	51.85
Max	91.80	87.70	67.10

3. Visualizations

The following histograms illustrate the distribution of SDG 6 scores across various institutions globally, within the Arab region, and specifically within Iraq. These visualizations highlight STU's relative position and provide insights into common performance levels.
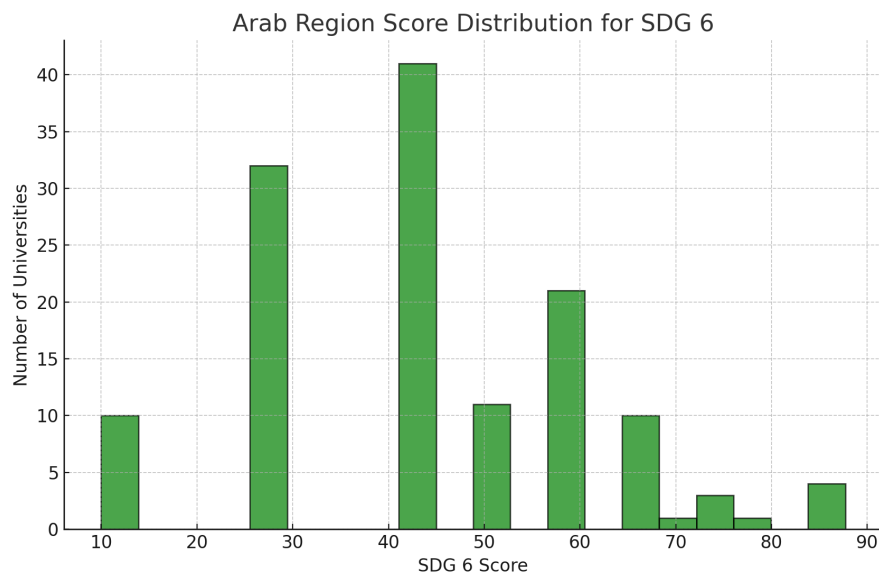
3.1 Global SDG 6 Score Distribution

The histogram below shows the distribution of SDG 6 scores across universities worldwide.
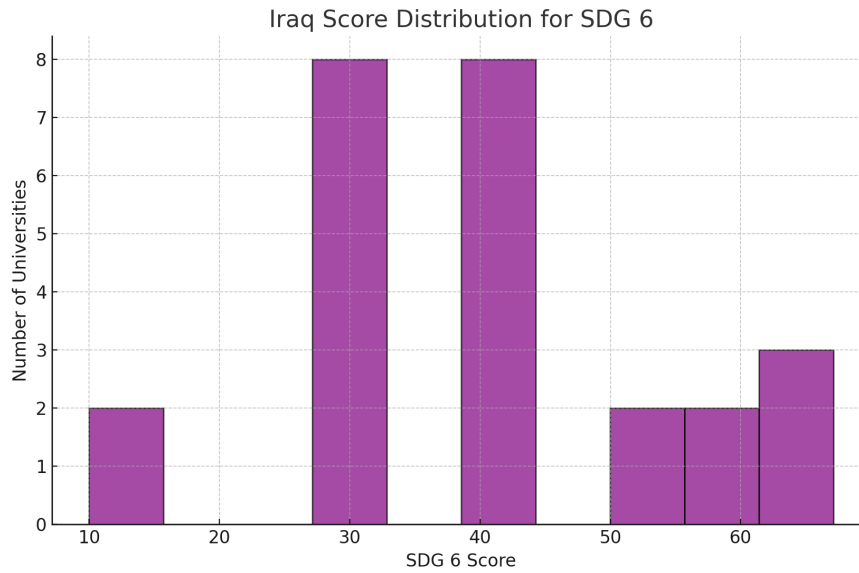
Global Score Distribution for SDG 6

3.2 Arab Region SDG 6 Score Distribution

This histogram presents the SDG 6 score distribution for universities in the Arab region.

Arab Region Score Distribution for SDG 6

3.3 Iraq SDG 6 Score Distribution

The histogram below highlights the SDG 6 score distribution among Iraqi universities, positioning STU's performance within its national context.

Iraq Score Distribution for SDG 6

4. Action Plan for Aligning with SDG 6

The action plan outlines specific strategies STU can implement to improve its alignment with SDG 6. These initiatives cover areas such as sustainable water management, partnerships with water-focused organizations, and campus-wide awareness programs.

Action	Responsible Unit	Timeframe	Expected Outcome
Implement water conservation initiatives campus-wide.	Facilities Management	Short-term (6 months)	Reduces water usage and promotes sustainability on campus.
Collaborate with local authorities to address water-related challenges.	Office of Community Engagement	Medium-term (1-2 years)	Strengthens STU's role in sustainable water solutions and community engagement.
Conduct workshops on water conservation for students and staff.	Sustainability Office	Ongoing	Increases awareness of water issues and encourages sustainable practices among campus members.
Establish a real-time water usage monitoring system.	Institutional Research and Facilities	Short-term (1 year)	Enables data-driven decisions and optimizes water usage management.

5. Key Activities for SDG 6 Alignment

The following activities outline specific steps STU should undertake to support alignment with SDG 6. These initiatives focus on promoting water sustainability, awareness-raising, and efficient water resource management.

Activity	Objective	Expected Impact
Conduct water conservation awareness campaigns.	To educate the STU community on sustainable water use.	Promotes sustainable water practices across campus.
Implement rainwater harvesting systems for non-potable use.	To reduce reliance on external water sources.	Encourages efficient water usage and campus self-sufficiency.
Establish water quality monitoring protocols.	To ensure safe drinking water standards are maintained.	Improves water quality and enhances health outcomes.
Organize training workshops on water conservation.	To raise awareness on sustainable water solutions.	Fosters sustainable behavior among students and staff.

6. Suggested KPIs for Monitoring SDG 6

The following Key Performance Indicators (KPIs) help track progress toward water conservation and sanitation goals, enabling effective monitoring and evaluation of STU's alignment with SDG 6.

Metric	KPI	Description
Water consumption reduction rate.	Year-over-year percentage decrease in water usage	Tracks reductions in overall water consumption.
Training participation rate.	Percentage of staff and students completing water conservation training	Monitors engagement in sustainable water practices.
Implementation of water-saving technologies.	Percentage of campus buildings with water-efficient fixtures	Measures uptake of water-efficient technologies on campus.
Water quality compliance rate.	Annual percentage compliance with water safety standards	Ensures water quality and safety across campus facilities.
Wastewater reuse rate.	Annual increase in treated water reused	Tracks improvements in wastewater treatment and reuse.