

Southern Technical University - SDG 7 Benchmarking Report

This report provides an in-depth benchmarking analysis of Southern Technical University's (STU) alignment with SDG 7: Affordable and Clean Energy. Through comparisons at global, regional, and national levels, this report identifies areas for improvement and strategic opportunities. The document includes an action plan, key activities, key metrics, and suggested KPIs for sustainable energy goals.

1. Benchmark Analysis

This section compares STU's performance with other institutions globally, within the Arab region, and within Iraq. Benchmarking offers insights into STU's position and areas where it can improve its SDG 7 alignment.

2. Descriptive Statistics Overview

The following table summarizes key descriptive statistics for SDG 7 scores at global, Arab region, and Iraq levels. These statistics provide a baseline for STU to assess its relative standing and identify targets for improvement.

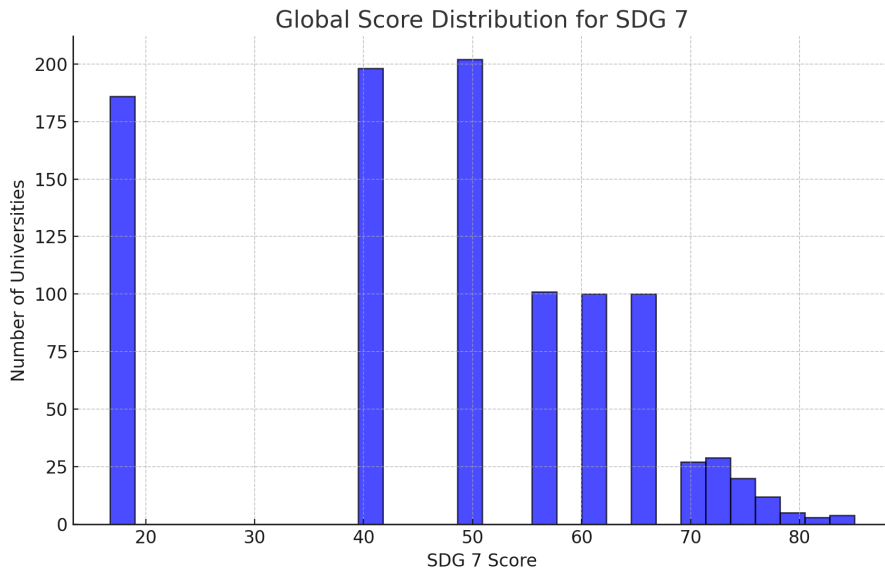
Statistic	Global	Arab Region	Iraq
Count	987.00	143.00	33.00
Mean	47.86	46.32	41.83
Std	18.15	19.22	18.36
Min	16.75	16.75	16.75
25%	39.90	39.90	16.75
50%	50.80	50.80	50.80
75%	61.45	61.45	57.50
Max	85.00	81.10	66.25

3. Visualizations

The following visualizations show the distribution of SDG 7 scores at global, Arab region, and Iraq levels, illustrating STU's position.

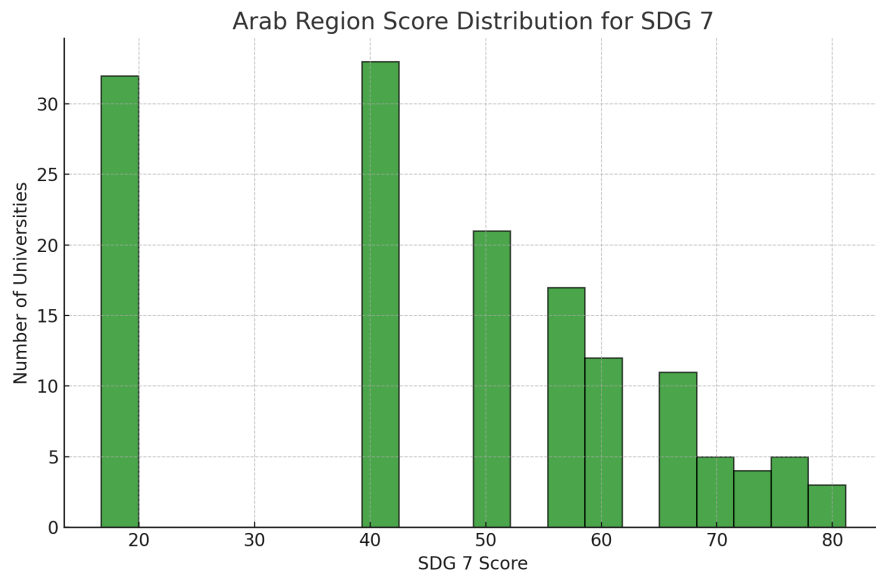
3.1 Global SDG 7 Score Distribution

This histogram shows the distribution of SDG 7 scores among universities worldwide.



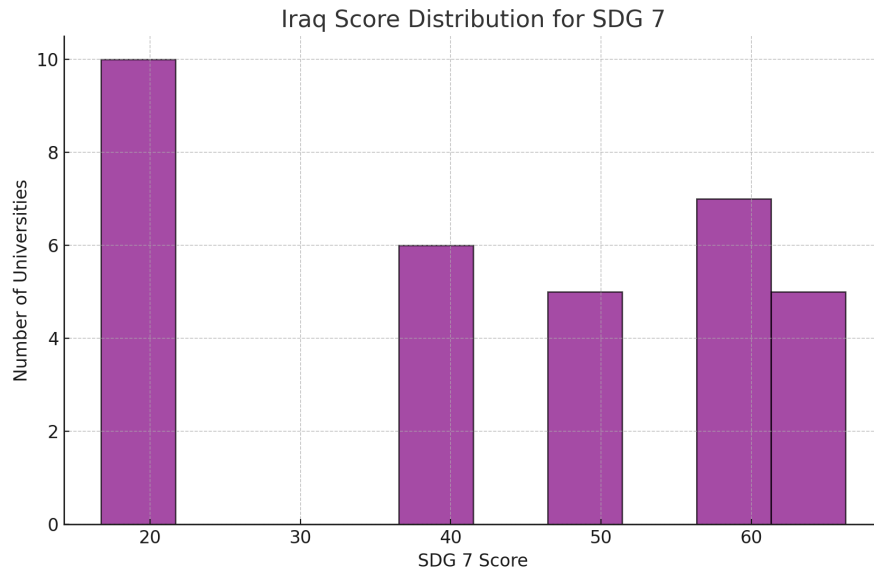
3.2 Arab Region SDG 7 Score Distribution

This histogram illustrates SDG 7 score distribution for universities in the Arab region.



3.3 Iraq SDG 7 Score Distribution

The histogram below presents the SDG 7 score distribution among universities in Iraq, providing national context for STU's position.



4. Action Plan for SDG 7 Alignment

The action plan provides strategic steps STU can implement to enhance its alignment with SDG 7. The initiatives cover energy conservation, partnerships with renewable energy organizations, and efficiency programs.

Action	Responsible Unit	Timeframe	Expected Outcome
Implement campus-wide energy conservation programs.	Facilities Management	Short-term (6 months)	Reduces energy consumption and promotes sustainability campus-wide.
Partner with renewable energy providers for campus energy solutions.	Community Relations Office	Medium-term (1-2 years)	Promotes renewable energy adoption and reduces carbon emissions.
Organize workshops on sustainable energy for students and staff.	Sustainability Office	Ongoing	Increases awareness of sustainable energy practices.
Install solar panels to power select campus facilities.	Facilities and Research Office	Long-term (2-5 years)	Increases reliance on renewable energy and reduces fossil fuel dependency.

5. Key Activities for SDG 7 Alignment

The following key activities help STU align with SDG 7 by encouraging energy conservation, renewable energy use, and efficiency on campus.

Activity	Objective	Expected Impact
Conduct energy-saving campaigns across campus.	To raise awareness on the importance of energy conservation.	Reduces wasteful energy use and fosters a responsible energy culture.
Install energy-saving fixtures in campus buildings.	To improve building energy efficiency.	Lowers overall energy consumption and operational costs.
Monitor real-time energy use to optimize consumption.	To track and reduce unnecessary energy use.	Enables proactive energy management and savings.

6. Suggested KPIs for Monitoring SDG 7

The following Key Performance Indicators (KPIs) provide measurable targets to track STU's progress toward clean energy goals. These KPIs support effective tracking of SDG 7 alignment and energy sustainability objectives.

Metric	KPI	Description
Energy consumption reduction rate.	Year-over-year decrease in campus energy use	Measures reductions in STU's energy consumption.
Training participation in energy-saving practices.	Percentage of campus members trained annually	Monitors awareness and engagement in sustainable energy practices.
Renewable energy adoption rate on campus.	Percentage of total energy from renewable sources	Tracks STU's reliance on renewable versus non-renewable energy.
Compliance rate with energy efficiency standards.	Percentage of buildings meeting energy efficiency criteria	Ensures sustainable energy management and reduces waste.
Greenhouse gas emissions reduction rate.	Annual percentage reduction in emissions	Measures STU's effectiveness in decreasing emissions linked to energy use.