

13th Arab-Hellenic Economic Forum

Saudi Electricity Company

Waleed Al-Saadi
CEO - National Grid SA

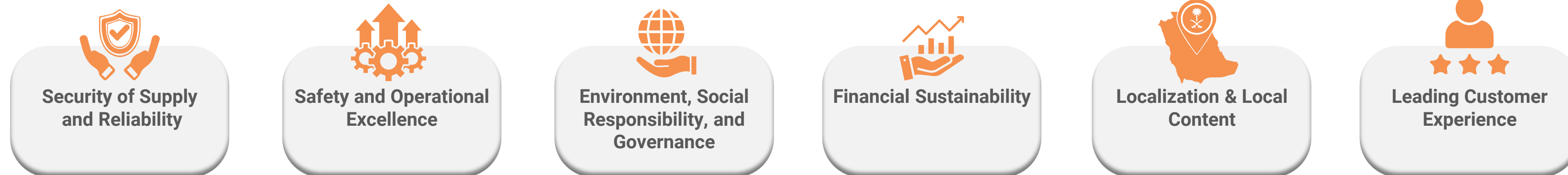


Introduction

Saudi Electricity Company plays a vital role by supplying the Kingdom with energy according to the highest reliability standards. The company is considered the primary source of electricity in the Kingdom by producing, transmitting, and distributing electricity through an extensive network covering all parts of the country. The company also provides services to all consumer segments, whether individuals, enterprises, or government sectors, contributing to Saudi Arabia's development and renaissance.

Introduction

Strategic goals

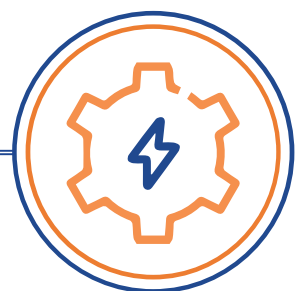


Strategic Programs



	Outside Investment Sector scope	Investment Sector Focus
100% Subsidiary	 Saudi Energy Production Company  نقل الكهرباء National Grid SA	 ضوئيات dawiyat  ضوئيات المتكاملة INTEGRATED DAWIYAT للاتصالات وتقنية المعلومات For Telecom & Information Technology   PDC شركة كهرباء السعودية لتطوير المشاريع SE Projects Development Company  Solutions Valley
50% to 100%		 SGGS  المرجان ALMOURJAN  Hajr شركة هجر لإنتاج الكهرباء HAJR ELECTRICITY PRODUCTION COMPANY  شركة ضرماء للكهرباء dhuruma electricity company
< 50%		 هيئة الربط الكهربائي لدول مجلس التعاون لدول الخليج العربية GCC Interconnection Authority  FPCC شركة محطة الفضيعة لتوليد الطاقة المتجددة FADHIL PLANT COGENERATION COMPANY  RAWEC WE ALWAYS DELIVER  SWEC  SQWEC شركة الشقيق للمياه والكهرباء SHUQAQI WATER AND ELECTRICITY COMPANY  جواب JWAP  SEPCO EVIC

Our Assets



Generation
capacity

56.9 (GW)



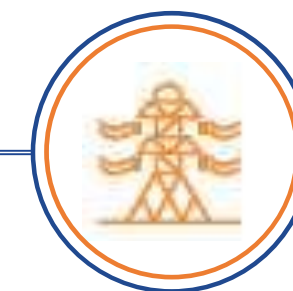
Number of power generating
plants \ Total power
generating units

**38 generating plants \
509 generating units**



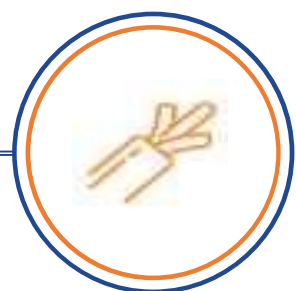
KSA MAX PEAK (GW)

74.7 (GW)



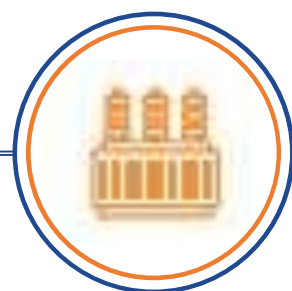
Lengths of
transmission network
lines

**99,676
km-circular**



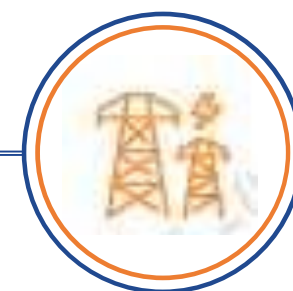
Total of fiber optic
network lengths

94,425 Km



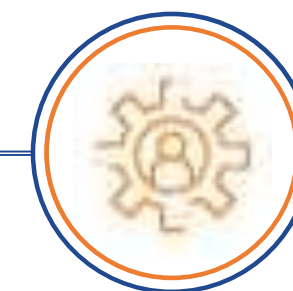
Number of transmission
substations

**1,249
Substations**



Distribution network lengths

**794,328 km-
circular**



Number of employees

**Employee
30,546**

NG | Projects CAPEX Budget & Number of projects by sub-category (2024- 2030)

890 Project

~ 427B SAR



Renewable Energy

Integrate ~97 GW of RE into KSA's transmission network & ensuring security and reliability of the grid

132.1
67



Generation Conventional Integration

Integration of conventional energy with the grid to meet growing demand

16.1
16



Area intertie connections

Enhance transfer capabilities to other operating areas (e.g. COA, SOA)

37.1
10



International Interconnections

Develop strategic connections for power trade with adjacent countries

3.4
2



Grid Expansion

Expand transmission lines while enhancing security, reliability and resilience of supply

135.9
392



Asset Replacement

Asset Replacement

59.2
349



Liquid Displacement

Connect ~15 industrial customers with the grid network to reduce consumption of liquid fuel

22.3
52

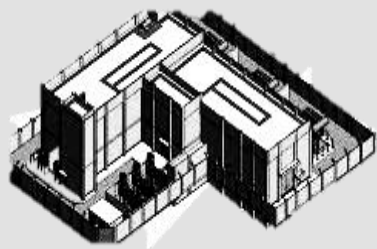


BESS

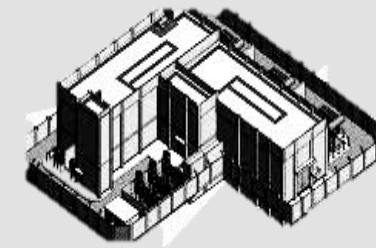
Battery Energy storage system

20.6
2

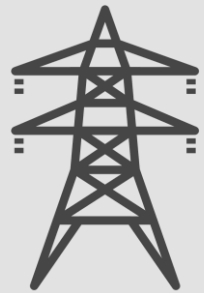
NG - Network growth statistics (2024- 2030)



BSP : # 200



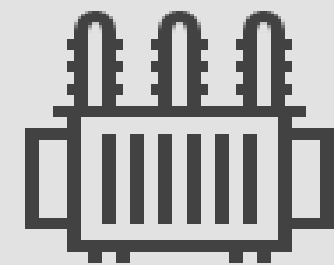
SS : # 513



UGC : 5,409 (km)










OHTL : 41,746 (km)



GIS : # 38,828

International Interconnection

1.2 GW	3 GW	0.5 GW	1 GW	3 GW	3 GW	3 GW
 <p>هيئة الربط الكهربائي لدول مجلس التعاون دول الخليج العربية GCC Interconnection Authority</p>						
<p>GCCIA-Kuwait Interconnection's Expansion</p> <p>Construction began in December 2022, with completion expected by the end of 2026-2027.</p> <p>Interconnecting with the Republic of Iraq is expected to be completed by 2025.</p>	<p>Project works ongoing with 59.3% progress achieved in SEC's side (KSA)</p> <p>58.4% progress achieved from both sides (KSA & Egypt).</p> <p>Energization date by 2026</p>	<p>Tendering is on hold until finalizing Trading agreement.</p>	<p>Draft SoW/TS is completed.</p> <p>SPV</p> <p>The initial structure of the SPV has been finalized and is awaiting legal review.</p> <p>Bank Guarantee is under discussion with Iraq.</p>	<p>Study awarded on 30/10/2024</p> <p>Target completion August 2025</p>	<p>Pre-FS is completed, final presentation after reflecting H.E Eng. Nasser Al-Qhatani comments and the phase -2 proposal are under review by MoE.</p>	<p>RFP, NDA and FS, are signed from both sides on 28 October 2024.</p>
Existing	Ongoing	Design	Plan	Plan	Plan	Plan

International Interconnection – Greece

Strategic cross-border interconnection for availing energy exchange between KSA & Europe



Status

- KSA & Greece governments signed Cooperation MoU
 - NG-SA & Greece signed Shareholder Agreement
 - SPV Establishment
 - Techno-economic Feasibility Study
 - Agreements (IA, OA, TA)
 - Tendering / Bidding
 - Awarding
 - Energization
- Completed
● In-progress
● Not started

Roadmap



Thank You
