





دور المختبر الخليجي في تعزيز السلامة والجودة للربط الكهربائي The Role of GCC Lab in Enhancing Safety & Quality for Electric Interconnection



GCC Lab's Major Highlights



10 Shareholders-Market Leaders







Total Budget for Power Scope: \$ 192 MM

Total Budget for Strategic Growth: \$ 95 MM

Outlines



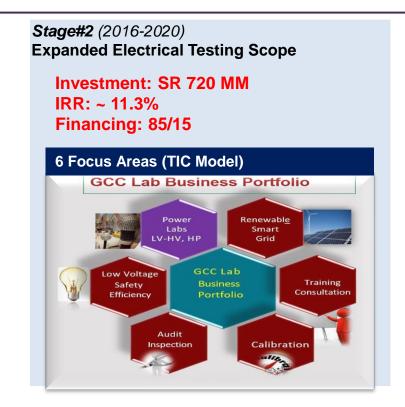
- Highlights on GCC Lab Initiative
- Safety & Quality Enhancement
- Conclusion



GCC Lab Strategic Growth (2 Staged)



Growing the GCC Lab to its Potential towards Sustainable Business and creating a One-Stop-Shop

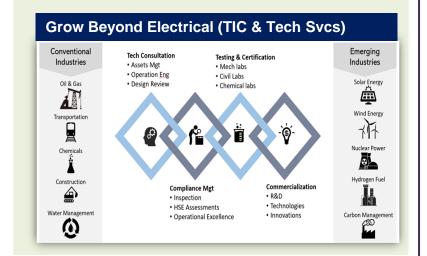


Stage#3: (2020- onwards)

One-Stop-Shop Model (triggered by Aramco):

Investment: SR 356 MM

IRR: ~ 31%

























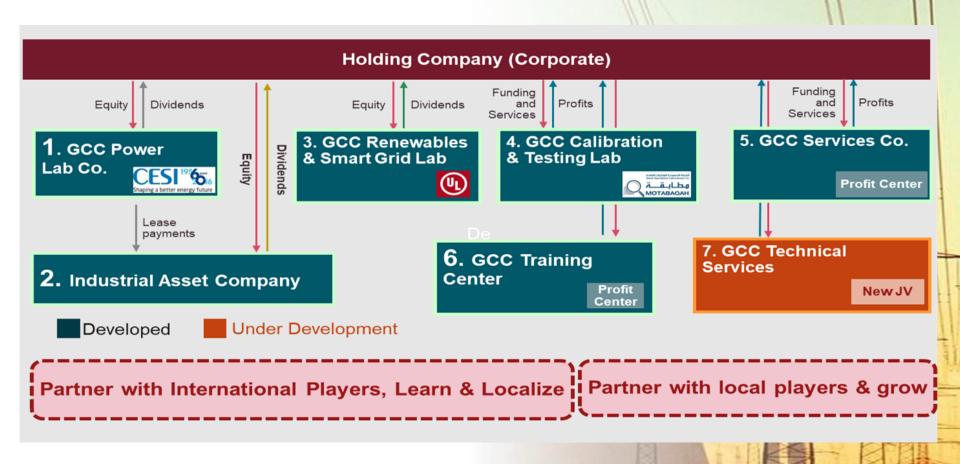




GCC Lab's Operating Model



7 Affiliates; more than 200 Employees, ~80% Nationals



GCC Lab's Major Highlights



GCC Lab's Facilities

GCC Lab has 6 Operational Locations to get closer to its customer



GCC Calibration & Testing Lab GCC Lab Building - Riyadh



Head Office GCCIA Building -Dammam



GCC Service Offices Manamah, Masqat

Electrical Testing Labs

Saudi Aramco – Dhahran



Gulf Calibration Labs Dammam Port



Saudi Industrial Inspection Co. Riyadh Jeddah



Microwave Lab Dammam Port



Modon 3 – Dammam

Gulf Renewables Lab LV & HV Labs



Advancement of Capabilities Building



GCC Lab had an advance Go-to-Market Strategy, although Testing Facilities are still under construction

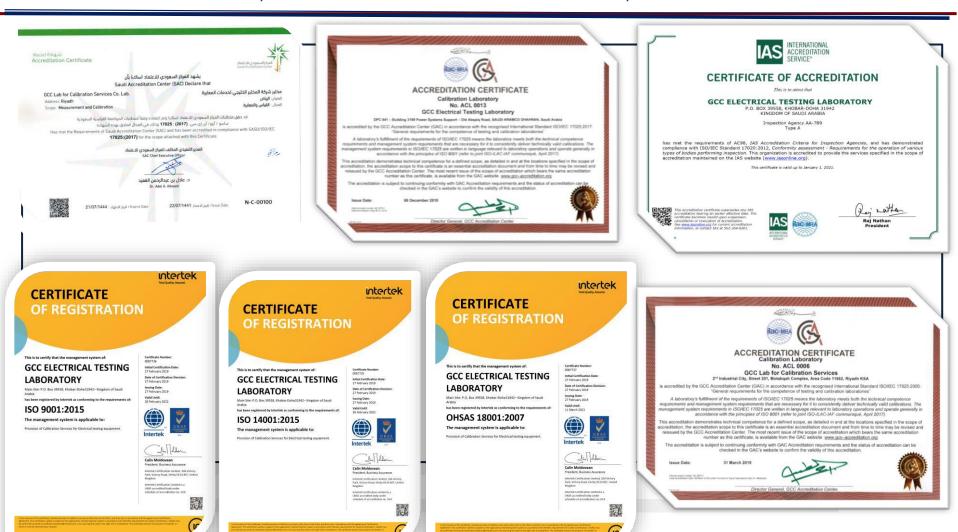


GCC Lab Update

Advancement of Capabilities Building

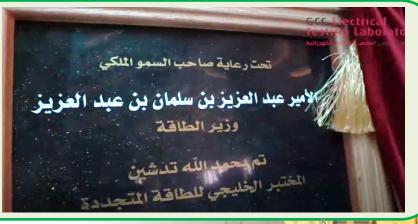


GCC Lab had achieved all required international & national certifications to provide world-class services













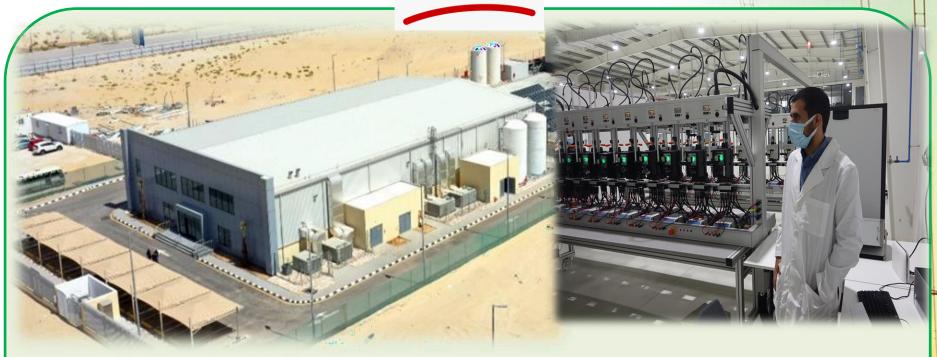
Renewable Lab

100%



GCC Renewable & Environmental Lab - Fully Operational





Advanced Testing Laboratory (Smart Meters, EMC, Fiber Optics, Efficiency)

Low Voltage Lab





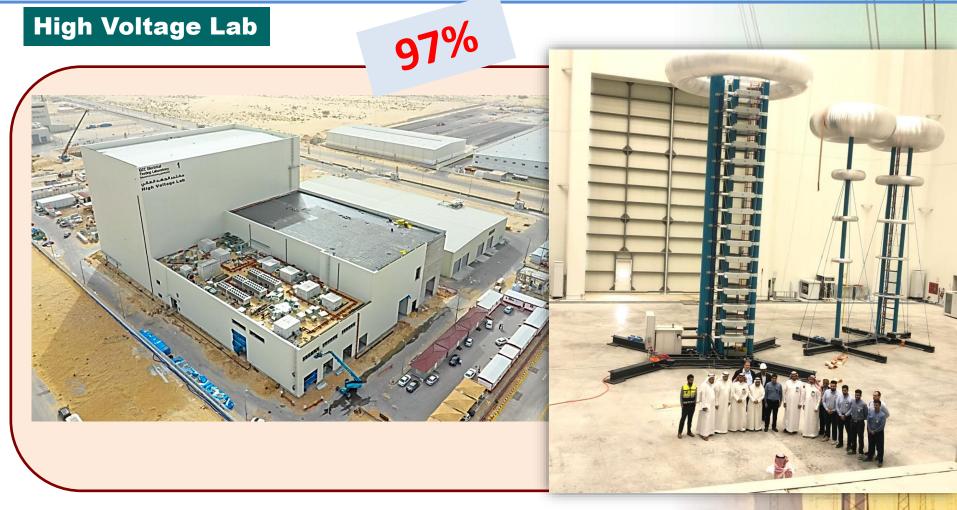
LV Lab(Operational- Q4 2021)

High Voltage Cable Lab

100%



HV Cable Testing Lab - (Operational Q4 2021)



HV Testing Lab - (Project Completion Q4 2022)

GCC Safety & Fire lab

85%





Safety & Fire Testing Lab - (Operational Q1 2023)

Calibration & Inspection Services 100%





Three GCC Calibration & Inspection Labs - Fully Operational

GCC Lab Update

Onsite HV Testing Services







Onsite HV Testing Services - Fully Operational

GCC Training Center







Hands-On Training & Certifications for Engineers & Technicians

Main Supply Substation

65%





Dedicated Power Supply to the GCC Lab Complex

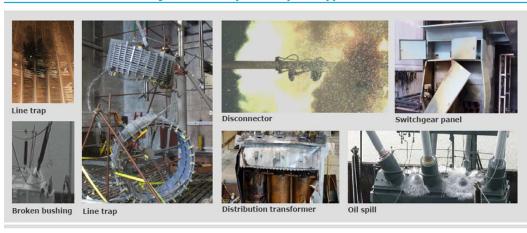
Safety & Quality Enhancement

Challenges:

- Regional Climate
- Corrosion / Humidity
- Temperature/ Dust
- Aging / Obsolescence
- Design / Workmanship



Around 25% of test-objects initially fail to pass type-tests



GCC Lab's Success Factors



Conclusion

- Synergy with Visions Countries in the Region
- Mitigate Challenges (Safety, Quality, Reliability & Cost)
- Create Centers of Excellence (Asset Management, Spare Parts, Retrofits, Condition Assessment)
- Influence Technical Specifications (Life-Cycle Control, Climate)
- R&D and Innovation (Conventional, New Technologies)
- Knowledge Hub for ALL

