



شركة تقنيات المستقبل المحدودة  
Future Technologies Ltd.



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## Our Vision

We strive to be one of the leading national companies specialized in modeling, simulation, and integration of engineering system.

## Our Mission

We invest our human and financial resources and our specialized experience to actively contribute to the development of Saudi engineering and technical expertise.



## Company Introduction

Future Technology L.t.d. (FTL) was established in 1993 in Al- Khobar, Saudi Arabia. The company started its business as a reseller, offering off the shelf scientific, CAD and engineering software, then developed its business to be a distributor for a number of professional CAD and engineering solutions including hardware, software sales and services.

FTL got privilege and the experience with major technical hardware and software installations among reputed government and industrial organizations.

To meet the growing challenges FTL provides a wide range of Consulting Services related to the power system services.

FTL has conducted numerous power system studies in Saudi Arabia and Gulf countries on new and existing electrical systems to enable its clients to build or expand their electrical power distribution systems to improve efficiency, reliability and safety in operations.

Power systems engineering services starts by considering current design environment, operating constraints and design goals.

Customer satisfaction is FTL prime goal, working closely with clients, FTL identify the most effective ways to overcome any obstacles to client success.

To analyze various design possibilities, FTL perform a full spectrum of power systems analysis.

## Our Services

Design, modelling and simulation in all stages of power system life-cycle from original concept through specification, integration, testing, commission and in-house service support.



# Power System analysis Services

- System modelling & field data collection.
- Power system design and verification.
- Load flow studies.
- Power factor correction studies.
- Short circuit studies.
- Protective device coordination studies.
- AC & DC Arc flash assessment.
- Motor starting studies. (Static & Dynamic)
- Load shedding analysis.
- Transient & dynamic stability analysis.
- Harmonic analysis & filter design studies.
- Generator start-up analysis.
- Underground cable raceway studies.
- Cable pulling studies.
- Substation grounding.
- Ground grid studies (IEEE & Finite Element Method).
- Cable ampacity calculation.
- Equipment sizing.
- Renewable power systems studies.



## Automation

- Power Management System including electrical SCADA.
- Intelligent monitoring.
- Energy accounting.
- Real-time predictive simulation and Control.
- Energy Management.
- Distribution Management.
- Outage Management.
- Intelligent Load Shedding.
- Generation Management.
- Smart Grid & Micro grid.

## Energy Saving Services

- Energy Audit and consultation.
- Energy saving implementation.
- Efficiency- conservation studies.

## Measurements Services

- Power measurements.
- Harmonic Measurement.
- Calibration.
- High voltage test.
- Transformer testing.
- Equipment testing.

## Design Services

Infrastructure design and Engineering Services for industrial and residential projects:

- Review, design and prepare construction drawing.
- Shop drawing and As-built construction drawings.
- Transformer and Cable sizing.
- Electrical shop drawing and as built drawing for cable route (MV and LV systems).
- Ring Main Unit Selection.
- Circuit Breaker Selection.
- Load calculations as per SEC DPS.

## ETAP Software Solutions & Training

FTL is the sole distributor of the professional engineering software ETAP on Saudi Arabia, Bahrain and Lebanon, the most comprehensive electrical engineering software platform for the design, simulation, operation, and automation of generation, transmission, distribution, and industrial systems.

ETAP offers a real time power management system technology that allows you to predict, control, visualize, optimize, summarize and automate your power system.

Distributed and web-based technologies provide the tools to make informative decisions based on planned or unplanned events from any location.

FTL provide ETAP professional training courses in many forms:

public, in-house and distance certified training courses with different categories: basic courses, advanced courses and onsite courses.




## Our Distinguished Customers

 <p>أرامكو السعودية Saudi Aramco</p>	 <p>الشركة السعودية للكهرباء Saudi Electricity Company طاقة مثمرة</p>	 <p>سابك عناك</p>	 <p>الوزارة العامة للتعليم KINGDOM OF SAUDI ARABIA</p>
 <p>جامعة البترول والمعادن UNIVERSITY OF PETROLEUM &amp; MINERALS</p>	 <p>مدينة الملك عبدالعزيز لِلعلوم والتقنية KACST</p>	 <p>جامعة الملك سعود King Saud University</p>	 <p>Schlumberger</p>
 <p>صدف أفدك</p>	 <p>جيبيك GPIC</p>	 <p>سعود كونسولت SAUDCONSULT</p>	 <p>AJEC</p>
 <p>كيان السعودية Saudi Kayan</p>	 <p>SOFCON Your Partner Of Choice In Building The Future</p>	 <p>غاز كاسكو</p>	 <p>amcde</p>
 <p>صدارة Sadara</p>	 <p>ينساب انساب</p>	 <p>ABB</p>	 <p>Schneider Electric</p>
 <p>COSMA</p>	 <p>كيميا kemya</p>	 <p>EPC</p>	 <p>FLUOR</p>

## Our Projects

FTL has done power system studies to a wide range of different organizations in Saudi Arabia and has worked with many engineering firms as subcontractor for the power system modelling and studies, enclosed partial list of clients.

Project Name	Saudi Kayan power system study	
Client Name	Saudi Kayan petrochemical Company	
Location / Project Size	Jubail City, Saudi Arabia / 22 Substations, 400 MVA	
Performed Studies	Data collection, Power System Modelling & Integration, Load Flow, Short Circuit, Static & Dynamic Motor Starting, motor group re-starting, Cable Sizing, Relay Coordination and Harmonic Analysis & Transient Stability Analysis.	





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