



Provision of Basic Utilities

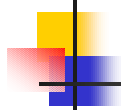
The Way Forward

*Khalid Iqbal
Divisional Director (Engineering)
August 29, 2006*



Present Position

- ⌘ Shortage of Generation*
- ⌘ Transmission and Distribution Network Saturated*
- ⌘ Load Extension by Customers*
- ⌘ Illegal Connections*
- ⌘ Pilferage of Electricity*
- ⌘ High T & D Losses*

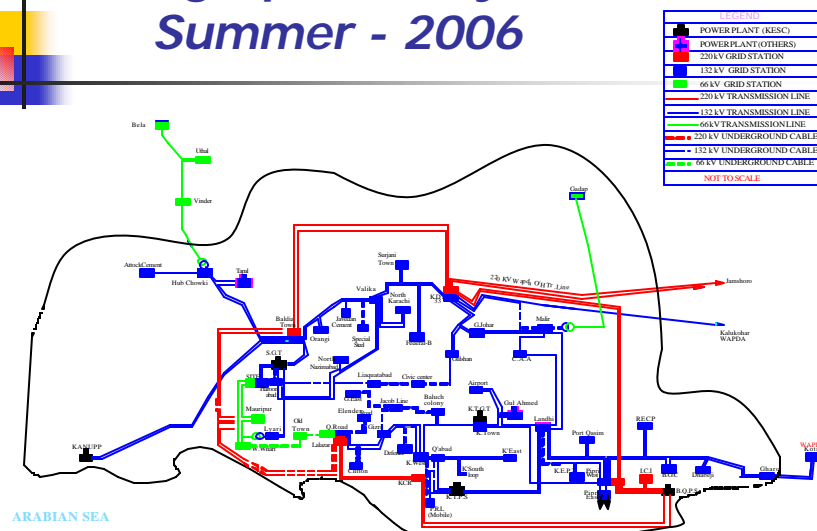


Vision of KESC

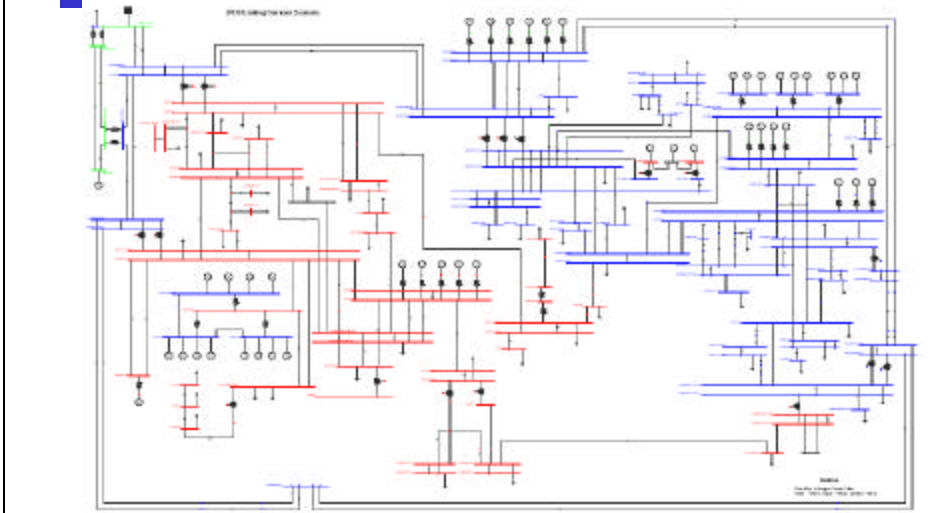
- *Stable and Uninterrupted Power Supply to Consumers*
- *Turn over of KESC in Two Years as Profitable setup.*
- *Trust of our Customers with an excellent Service and best supply of energy.*
- *Successful Implementation of Government Policy for Privatization of KESC.*



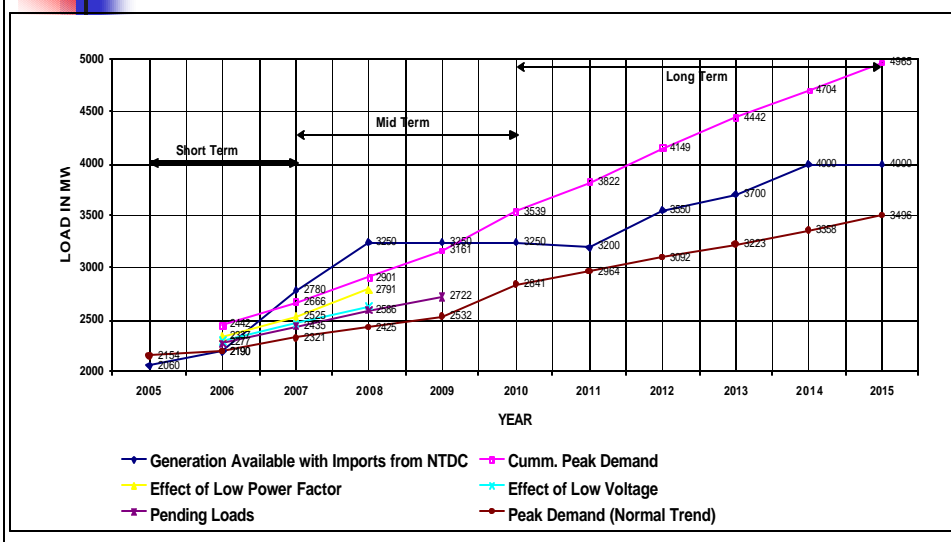
Geographical Layout Summer - 2006

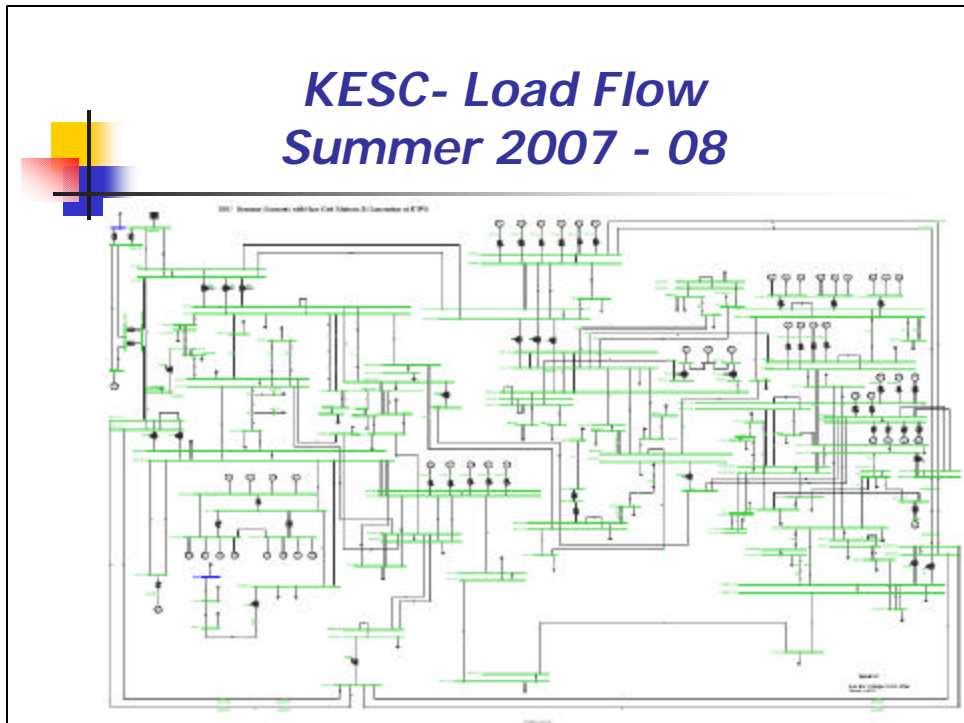
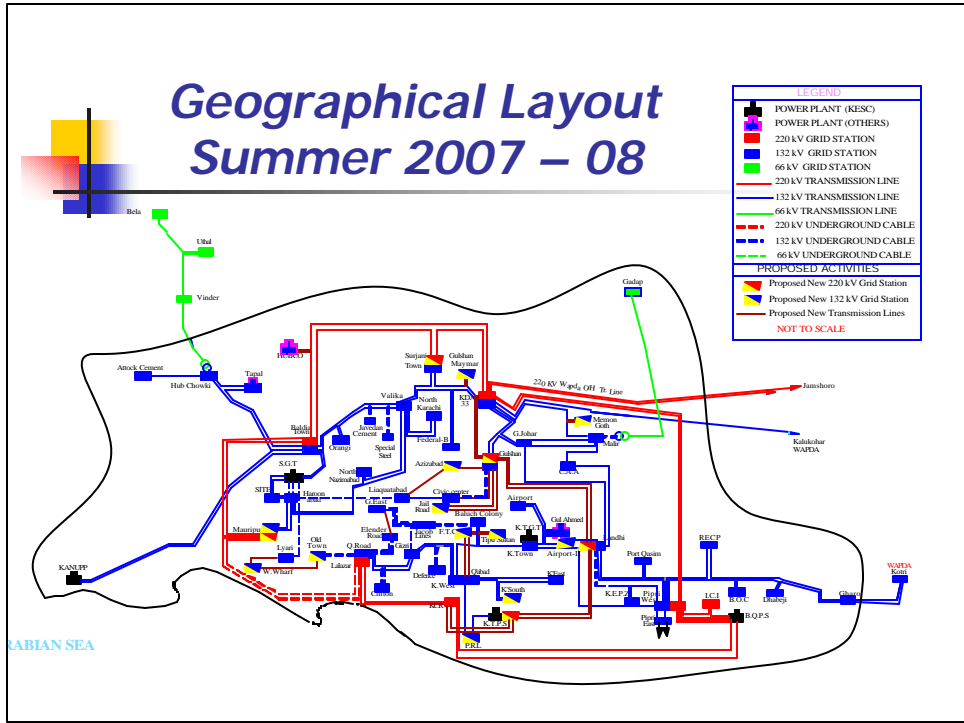


KESC Load Flow Summer 2006



CUMULATIVE PEAK DEMAND/ SUPPLY Year 2006 - 2015





Network Improvement Projects

1 Center for Surveillance, Control and Data Acquisition

54 km High Tension Overhead Lines 220 kV
5 Grid Stations 220 kV

300 km Single Core Cable Lines 132 kV
6 km Overhead Lines 132 kV
12 Grid Stations 132 kV

9 Auto Transformers
2000 Capacitors

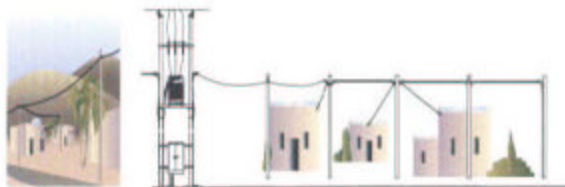
180 Feeders 11 kV

250 Substations
2155 Pole Mounted Transformers 400 V
100 km Lines with Aerial Bundled Cables 400 V

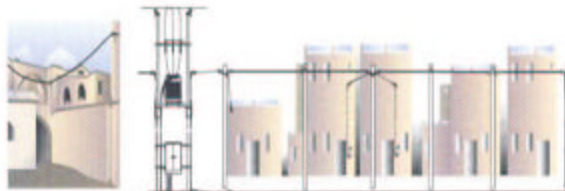
less losses
higher voltage
stable frequency
less breakdowns
less load shedding !

Concept of Installation of Aerial Bundle Conductor

Village
Main Line
parallel to a road



Town
Main Line
parallel to a street





Huge Investment for Improvement

in new Generation

- Gas Turbines in Open Cycle 500MW on Gas / Furnace Oil
- Combined Cycle in 2008 up to 830 MW additional

in Rehabilitation

- Improvement of Generation Capacity up to 228 MW
- Grid Stations, Lines, SCADA, Transformers, ABC, Capacitors

in Network Expansion

- Transformers, Capacitors, Substations, new Connections
- Improvement in all 100 Customer Service Centers, 1 Call Center
- New and more Data Processing Tools at all Levels, SAP