









#### **Contents:**

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Due to the challenges faced by the country which reflect negatively on MoE' activities for recovering the energy shortage and electricity' supply to consumers, MoE prepares a different scenarios for a quick action plans to be adopted in accordance to the finance which can be allocated.

## These planes divided to:

- 1. Critical Plan.
- 2. Strategic Plan



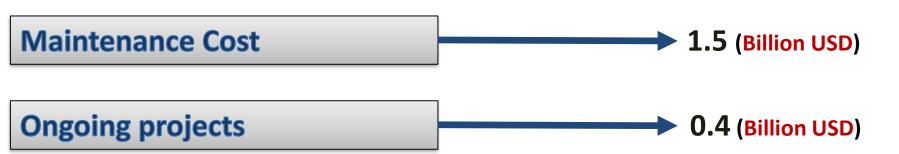


## 1. Critical Recovering Plan for 2016.

This plan is prepared to recover & supply a total generation of (19000 MW) in June-2016 with a total cost around (4 Billion USD) as the following:

#### a. Generation Sector:

#### **Total finance needed 1.9 Billion USD**







## 1. Critical Recovering Plan for year 2016.

#### **b.** Transmission Sector:

Estimated Cost 

0.65 (Billion USD)

#### c. Distribution Sector:

Estimated Cost 1.5 (Billion USD)





## 2. Strategic Plan till the year 2018

This plan is prepared to cover the estimated load demand for 2018, This plan focused on both **Distribution** and **Transmission** sectors.

As for Generation Sector, MOE established a future plan depending on the investments with the private sector, The initiation for this plan is started with a contracts to generate more than (5000 MW).

The Generation Plan is aiming to:

- 1. Satisfy unmet electricity demand.
- 2. Provide reliable continuous power supply to consumers.



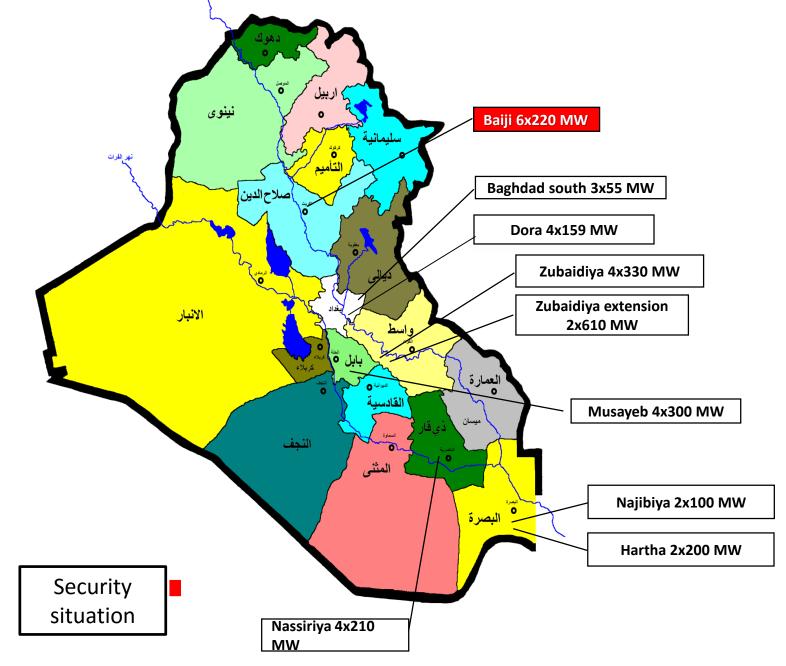


## 2. Strategic Plan till the year 2018

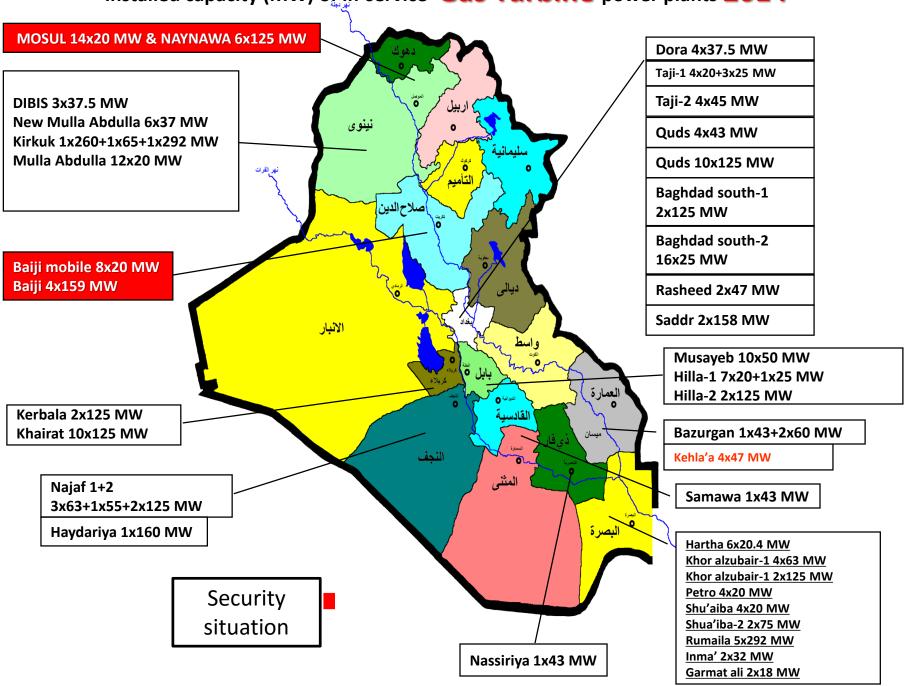


Total: 30685 (without Existing generation).

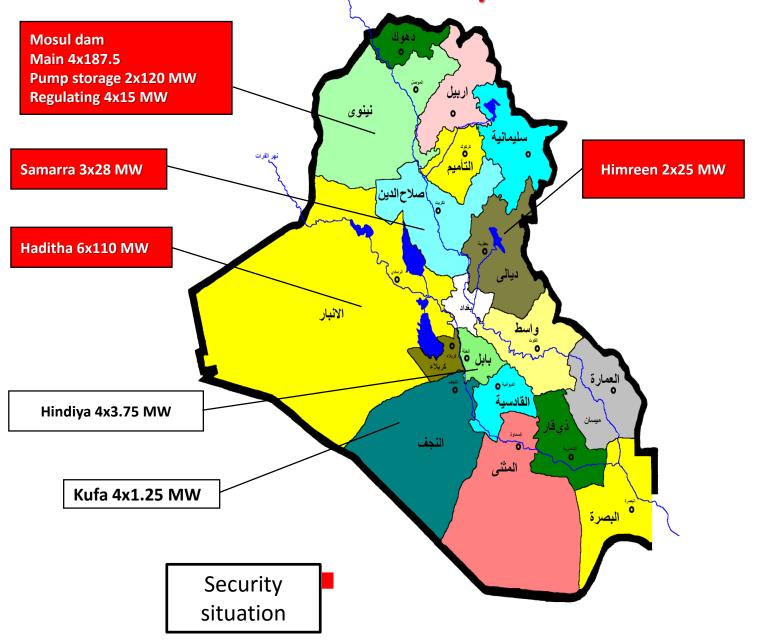
Installed capacity (MW) of in-service Steam Turbine power plants 2014

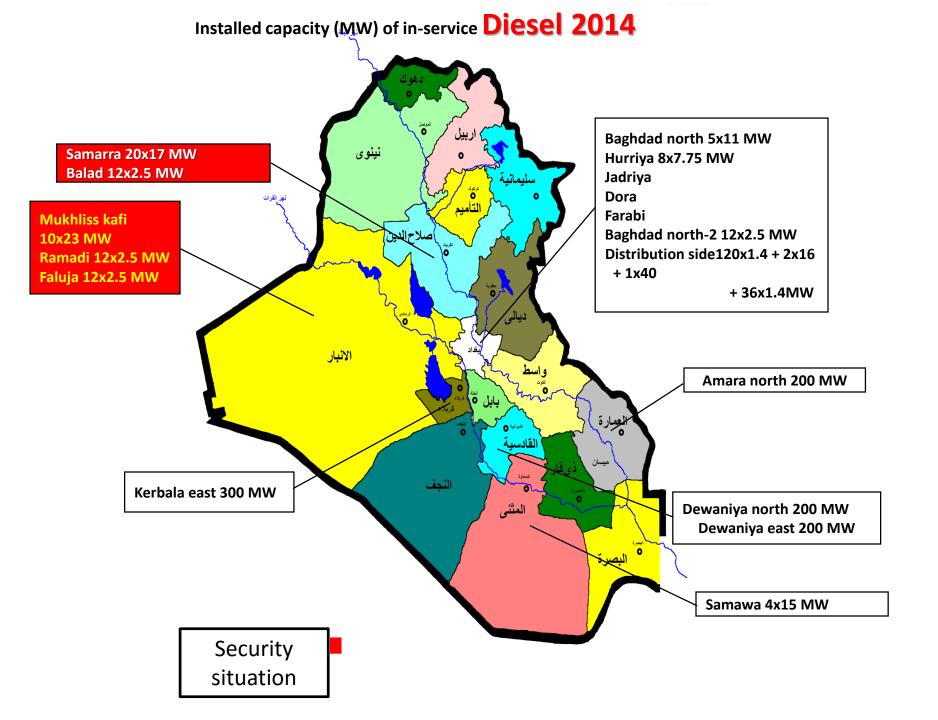


Installed capacity (MW) of in-service Gas Turbine power plants 2014



#### Installed capacity (MW) of in-service Hydro Power Plants 2014









## 2. Strategic Plan till the year 2018

## a. Transmission sector projects requirements:

Estimated Cost 5.8 (Billion USD)

## b. Distribution sector projects requirements:

Estimated Cost 8.2 (Billion USD)





#### c.1. Irregular slums:

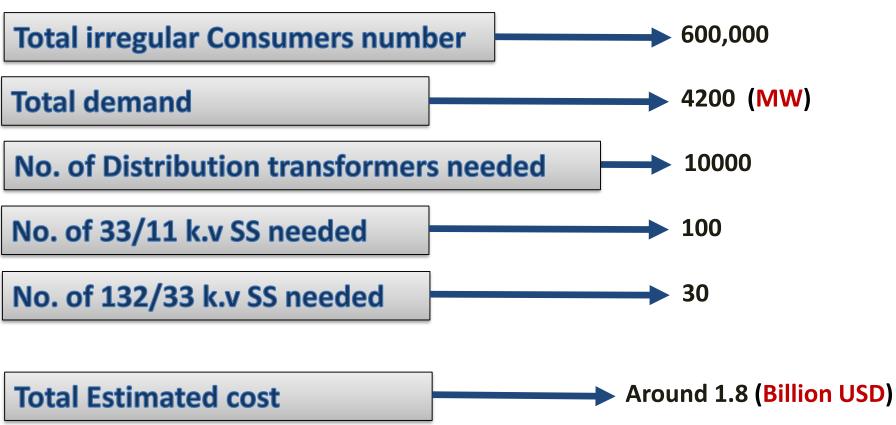
Which should be changed to regular consumers by a proper connections to regular grid. Accordingly, MOE will have the ability to collect energy consumption fees from them.

These new consumers require an expansion in 11,33 and 132 K.V grids.





#### c.1. Irregular slums:







## c.2. Continuous Power Supply Contracts:

MOE start a new policy for supplying a 24/7 power supply to high consumption consumers, according to an official request from the consumer himself.

This policy based on delivering 24/7 power supply with a special commercial tariff without subsidy.

MOE intend to expand with applying this policy to respond for any such requests, wherever the technical conditions could be met.





#### c.3. Reducing Power Losses:

- Technical Losses (Cables, Wires, Transformers..., etc.).
- Stealing losses (meters by-passing, direct connection, Non-Working meters,... etc.).
- Transferring from the traditional meters system to the smart meter system.
- Rules Legislation for importing High efficiency electrical appliance.





#### c.4. Privatization of Distribution Sector:

In order to privatize the Distribution sector, MOE adopt a well planned roadmap by the guidance of the World BANK, which based on the following:

- Sector restructuring and unbundling
- Establishing sound regulatory systems to regulate and monitor service performance
- Reducing system losses, both technical and non-technical;
- Improving management efficiency and electricity service delivery;
- Improving sector's financial position to create positive cash flows;
   and
- Attracting private capital investment, whenever conditions warrant it, to share fiscal burden and transfer knowledge.





#### c.3. Privatization of Distribution Sector:

These strategic reform actions should reflect the priorities for the sector.

Governments face critical decisions in reforming the electricity supply chain. They must decide the relative roles of public and private sectors in providing power services; the governance and reform of public enterprises operating in the sector; restructuring to introduce competition, including unbundling and the development of power markets; and regulatory reforms under a comprehensive "Roadmap Framework"





#### c.4. Privatization of Distribution Sector:

In order to succeed in the sector reform and create an efficient and revenue generating business model with "positive cash flows" to attract the private sector, the three-phased Roadmap actions should be implemented with the following three phases:

PHASE I: Short Term (1-2 years): Ministry of Electricity will remain vertically integrated with ring fenced business units, including distribution.





#### c.3. Privatization of Distribution Sector:

PHASE II: Medium Term (2-5 years): Reorganization of the market in the medium term aims at creating an enabling environment for the entry of many players into the supply chain. Ministry of Electricity will continue to be fully responsible for transmission while the private sector can be involved in generation and distribution segments.





#### c.4. Privatization of Distribution Sector:

PHASE III: Long Term (5-10 years): Key market change will involve gradual unbundling and (full/partial) privatization of the distribution segment based on the social, economic and financial realities in IRAQ.

The market also comprises a competitive power generation segment with Independent Regulator and Market Operator.





#### c.5. Service Contracts:

As a trigger to privatize the distribution sector, MOE initiated a Service Contract to assign the maintenance & tariff collection services in a single district to a private company.

This experiment had been done through the following Road Map:

- Reviewing/Studying the most successful world' experiments.  $\checkmark$
- Analyzing the local financial and technical situation.  $\sqrt{\phantom{a}}$
- Selecting a suitable one district to apply a pilot project.  $\checkmark$
- Advertising MOE intention to attract investors.  $\sqrt{\phantom{a}}$
- Prequalification.  $\sqrt{\phantom{a}}$
- Requesting for technical and commercial offers.  $\sqrt{\phantom{a}}$
- Qualification and signing contract. (On Going)
- Expansion with this experiment to all IRAQ qualified districts (around 180). (2016)





## c.6. Tariff Gradual Increasing:

- Until now, IRAQI' Tariff is classified as one of the lowest tariffs in the world due to a very high governmental subsidy (around 90%), which leads to a negative flow cash and impedes developing the Electricity sector.
- Tariff increasing is One of the high priority goals for MOE, and began to apply a perfect studied plan to achieve this goal.
- The goal is starting to reduce the subsidy gradually, taking into consideration the current financial situation for both citizens and government at each stage.



# Comparison Between Unit Energy cost & Revenues According to Current Tariff & Proposed Tariff

Year	Revenues according to the current Tariff (Trillion dinars)	Revenues according to the Proposed Tariff (Trillion dinars)	Unit energy cost based on 154 IQD per unit (Trillion dinars)	Unit energy cost based on 139.21 IQD per unit (Trillion dinars)
2012	0.64	4.44	5.17	4.65
2013	0.77	5.95	6.93	6.2
2014	1.26	8.35	9.73	8.75
2015	1.60	11.04	12.32	11.08
2016	2.04	14.05	15.68	14.11
2017	2.42	16.73	18.67	16.8
2018	2.81	19.40	21.65	19.48
2019	3.21	22.15	24.72	22.23
2020	3.64	25.09	28.00	25.2



## Comparison Between Unit Energy cost and Revenues According to Current Tariff & Proposed Tariff





