A Glimpse at the Water Project
In The Kingdom of Saudi Arabia

A presentation by:

Dr. Ali Al Tukhaise
Deputy Minister for Water Affairs
Ministry of Water & Electricity
Kingdom of Saudi Arabia
Studies of Water Sources Development

Water Planning & Management

Water Supply Provision

Drilling of Wells

Affluent Re-Use Projects

Dams

Projects Under Construction

Desalination of Sea Water

Aqueous (Water) Regulations & Legislations
Studies of Water Sources Development

The objective of those studies is to learn about the properties of geological formations bearing water and the extent of utilizing it for drinking, irrigation and industry.

Ministry of Water & Electricity, Kingdom of Saudi Arabia
Water Planning & Management

The Ministry prepared a national plan through which the water store was counted and its various uses and priority were identified for use and conservation of use.
Water Supply Provision – Projects:

1. Riyadh Water Supply Project – the city is fed by few sources:
   - Surface layers
   - The white layer in Wadi Nissah
   - The wells that derive their water from Al-Manjor layer
   - Salboukh water supply project
   - Al-Buweib water supply project
   - Al-Wasee water supply project
   - Al-Hunnay water supply project
   - Al-Jubail water supply project - desalinated water
Water Supply Provision – Projects:

2. Jeddah Water Supply Project – depends on 3 water sources:
   - Main source (desalination)
   - Wadi Fatima Water
   - Wadi Khuleis Water

Ministry of Water & Electricity, Kingdom of Saudi Arabia
Water Supply Provision – Projects:

3. Comprehensive Regional Water Projects

This type of projects is being carried out to provide water supply for several cities & villages within a definite range covered with the comprehensive project services through its elements that includes a well field. Among the most important projects executed are the following:

- Al Washem Water Supply Project
- Hofouf & Mubarrez Water Supply Project
- Sudayr Water Supply Project
- Water Supply Project of Dharma & Muzahimiyah & the nearby villages
- Water Supply project of Dawadmi & Afif and the nearby villages
- Water Supply Project of Naffi & the nearby villages
- Quwayéiyah Water Supply Project
- Water Supply Project of Labkha & huweitah and the nearby villages
- Al Jubila, Al Uyaynah & Al Ammariyah Water Supply Project

Cont..
3. Comprehensive Regional Water Projects

- Hafr Al Baten & Qaysoumah Water Supply Project
- Taif & Hada Water Supply Project
- Water Supply Project of Al Rass & the nearby villages
- Water Supply Project of Bukeiriyah, Khabraa & Riyadh Khabraa
- Hail Water Supply Project
- Project of water Transmission from Al Aqiq to Al Baha
- Project of water Transmission from Wadi Urdah to Al Baha
- Al Qurrayat Water Project
- Transmission of Desalinated water from Yanbu Al Bahr to Yanbu Al Nakhl
Water Supply Provision – Projects:

4. Medium Size Water Projects in the Cities

5. Provision of drinking Water for Villages:
   More than 1280 water projects have been implemented
Water Supply Provision – Projects:

6. Treatment Plants:
   - Treatment Plants in Zulfi
   - Rafha Treatment Plant
   - Treatment Plant in Al Qurrayat
   - Treatment Plant in Khamis Musheit
   - Treatment Plant in Bureidah
   - Treatment Plant in Uneizah

7. Water Towers
Drilling The Wells:

Total number of wells drilled for provision of drinking water in many villages, populated centers and governorates is 4,455 ones.
Affluent re-Use Projects

Dams:
The number of dams executed in the Kingdom presently exceeds 223 with storage capacity amounting to 835.6 million m². At present, work is underway on executing 17 dams with storage capacity of 979.5 million m², besides 15 other dams that are just about to be executed.
Projects Under Construction (list)

Desalination of Sea Water:
The design production capacity of the desalination plants was in 2005 go more than 3 million m^2 per day, along with generating enormous amount of electrical power.

Aqueous (Water) Regulations & Legislations

Ministry of Water & Electricity, Kingdom of Saudi Arabia
Thank you..