



MINISTRY of PETROLEUM
and MINERAL RESOURCES



Program 4:

**DOWNSTREAM PERFORMANCE
AND ENERGY EFFICIENCY**

● MAIN OBJECTIVES

● Increase asset utilization and to achieve globally competitive cost performance and energy efficiency.



The program is covering two main topics



A

Program-4A: optimization of downstream sector including oil refining, gas processing, petrochemical manufacturing, and logistics and distribution of products throughout:

- Optimization of asset usage**
- Increase integration among petroleum sector**
- Reduce operational cost**

B

Improving Energy Efficiency in the Petroleum Sector.

● P-4A Achievements



- **Implement downstream sector data base, to assess current situation for downstream companies which will enhance and improve strategic decisions.**
- **Utilization of EPC Platform to import Ethane and supply ETHYDCO, SIDPEC with sufficient quantities to increase production capacity of Polyethylene**

● P-4A Achievements

○ Applying Linear Programming technology on eight state own refineries to develop efficient production planning models, and to minimize losses. (expected Annual Profit of **100 MMUSD**)

○ LPG recovery from Fuel Gas of Matrouh Power Station to avail 40% of Matrouh City demand, achieving best Asset Utilization and Reduce Imports. (**6 MMUSD annual saving**).

○ Contract between EGPC/SIDPEC to blend un-utilized **600 T/Y** of butane column product with Gasoline pool in APC.

○ Increase integration among petroleum sector workshops by transferring the excess capacities in PETROJET to other qualified workshops such as CORC and EPC, which will reduce delay in static equipment delivery in sector projects

○ Forward integration of MOPCO produced UREA by producing NPK Fertilizers which will penetrate the market locally and exporting surplus production, will reduce imports, add value to the fertilizers industry, and save foreign currency .

P-4B OBJECTIVES

B

Program 4-B set specific short-term and long-term objectives to improve energy efficiency (EE) in the petroleum Sector.

Short-term:

- Establishing overall EE framework for the petroleum sector.
- Implementing No/Low cost EE measures.

Long-term:

- Implementing large scale EE projects.
- Developing legal and administrative EE framework.

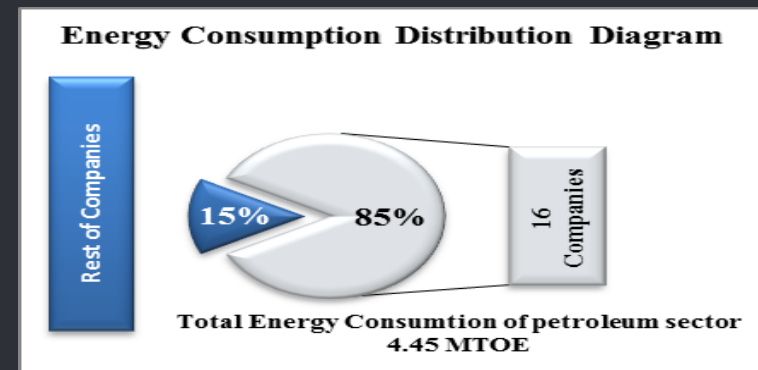
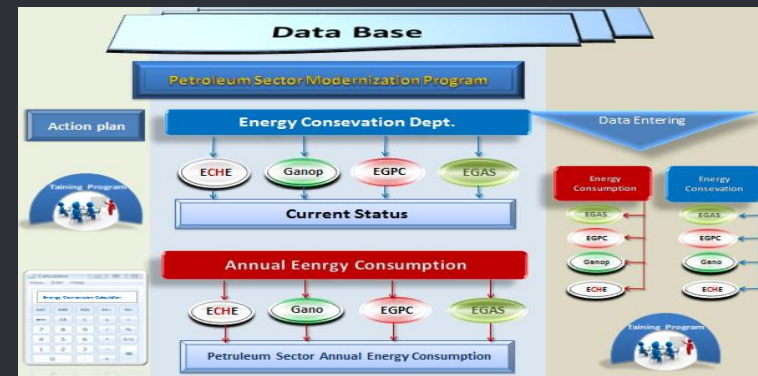
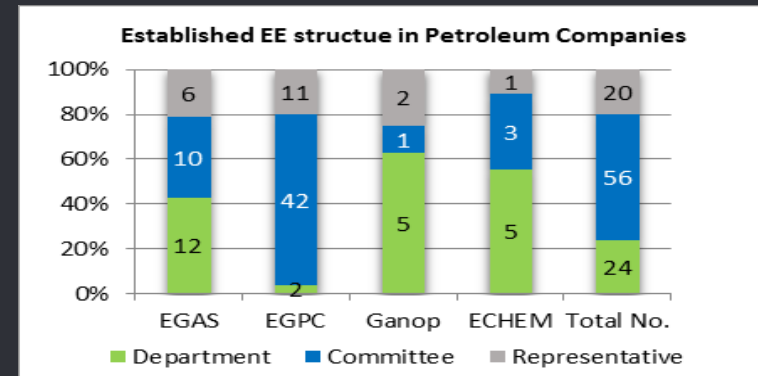
P-4B Achievements

Establishment of sustainable energy management system in the petroleum sector through:

- Assignment of energy staff in 100 companies.
- Conducting 8 Energy Efficiency (EE) awareness sessions covering 85 companies.
- Development of detailed EE database for controlling and monitoring EE activities in sector companies and recording energy consumption, energy saving & rate of GHG emissions reduction.

Achievement of energy saving of **“279 Million EGP/Year”** through the implementation of No/Low cost EE improvement measures.

SHORT-TERM ACHIEVEMENTS



P-4B Achievements

LONG-TERM ACHIEVEMENTS

Secure MMUSD 200,000 for EE improvement projects at GASCO e.g. Waste Heat Recovery Project at Dahshour.

Working on another MMUSD 200 for EE improvement projects at SOPC.

Developed Energy Efficiency and Climate Unit (EECU) at the MoP.

Energy Efficiency Capacity Building Plan to cover 1115 trainees in petroleum sector companies.