

Amreya LPG Recovery Plant





The Egyptian Natural Gas Company's profile



The Egyptian Natural Gas Company (GASCO)

The Egyptian natural gas company (GASCO) was established on 17th March 1997 in accordance with the provisions of the Law of investment number 230 for the year 1989, which was amended by law number 72 for the year 2017, and started the operation of transmitting, distributing, supply, processing and manufacture of natural gas on that date.

The Company's vision

Gasco looks forward to being a pioneer as a regional operator to Gas transmission and transportation system and natural gas derivatives separation plants, as well as taking the advantage of the hydrogen techniques, also capturing and using Carbon dioxide, which enhances Egypt's vision as a power regional center.

The Company's mission

- Managing, operating and developing of the gas transmission and distribution system from the local & regional entry points to secure the local supply and export.
- Establishing integrated projects for the natural Gas Pipelines Grids & their facilities.
- Managing, operating and developing of natural gas derivatives extraction plants.
- Supplying the Petrochemical plants with the raw materials needed for industry.
- Utilizing the sustainable solutions through the integrated strategy of Hydrogen and Carbon Dioxide in The company businesses driving the transition towards a decarbonized economy.



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Designing power

The feed gas 300 MMSCFD.

Products

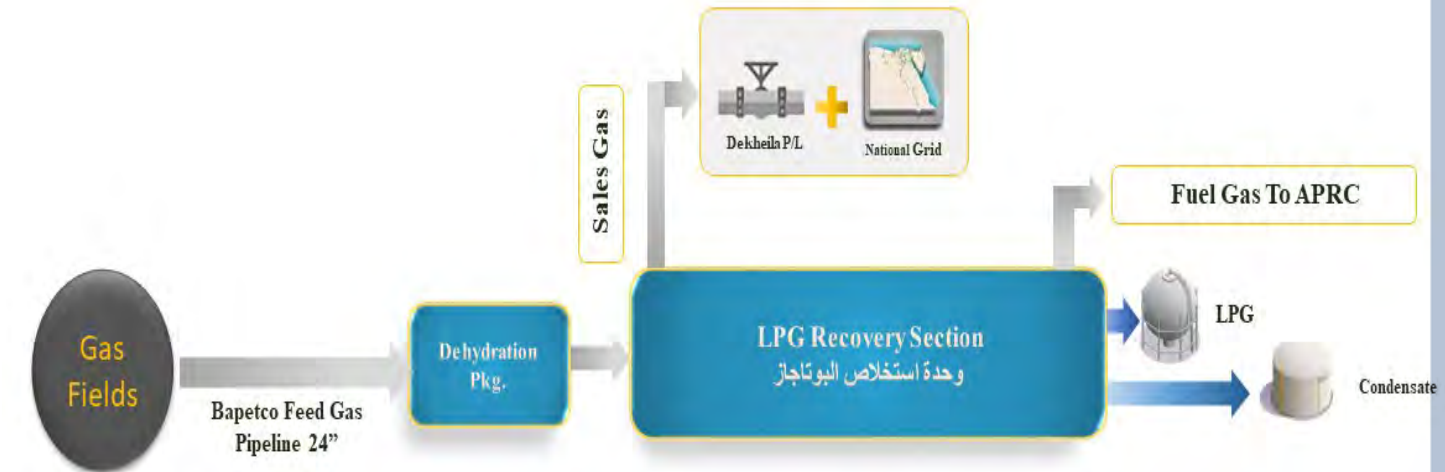
- LPG product to fulfil the local market needs.
- Condensates products ate supplied to Alexandria region.
- Sales gas to Dekhela iron & steel company.

The total amounts

The total of LPG products since The Egyptian Natural Gas Company GASCO took over managing & operating it starting from August 2000 to December 2023 reached **5.15** Million Ton of LPG and condensates.

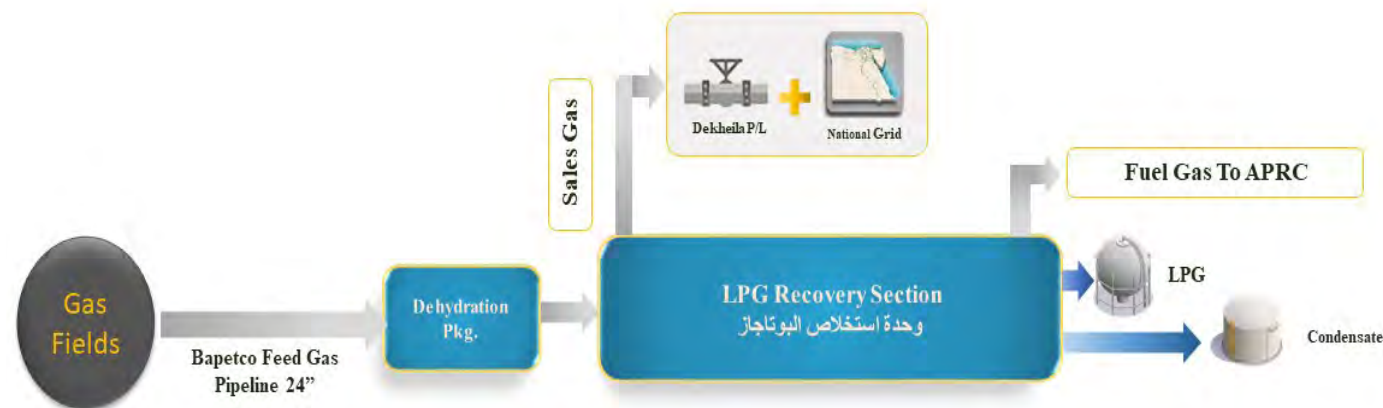
Stages of development & optimizing benefits of feed gases

In pursuit of achieving the company's objectives in optimizing the benefits of feeding gases for its gas plants facilities, the technical departments managed these facilities by doing several technical studies in the cooperation & coordination with the different departments. The main target was to implement several stages of developing & modernize the operation systems with main goal raising the operational efficiency of the plant & increase its flexibility that helps to meet the growing needs of the strategic products LPG, condensates and increasing of Ethan/Propane mixture production. The most important stages of development that are done in Amereya LPG facilities as follows:



FIRST: The operation startup

LPG facilities operation started up in November 1995 under The Western Desert Petroleum Company WEPCO management.



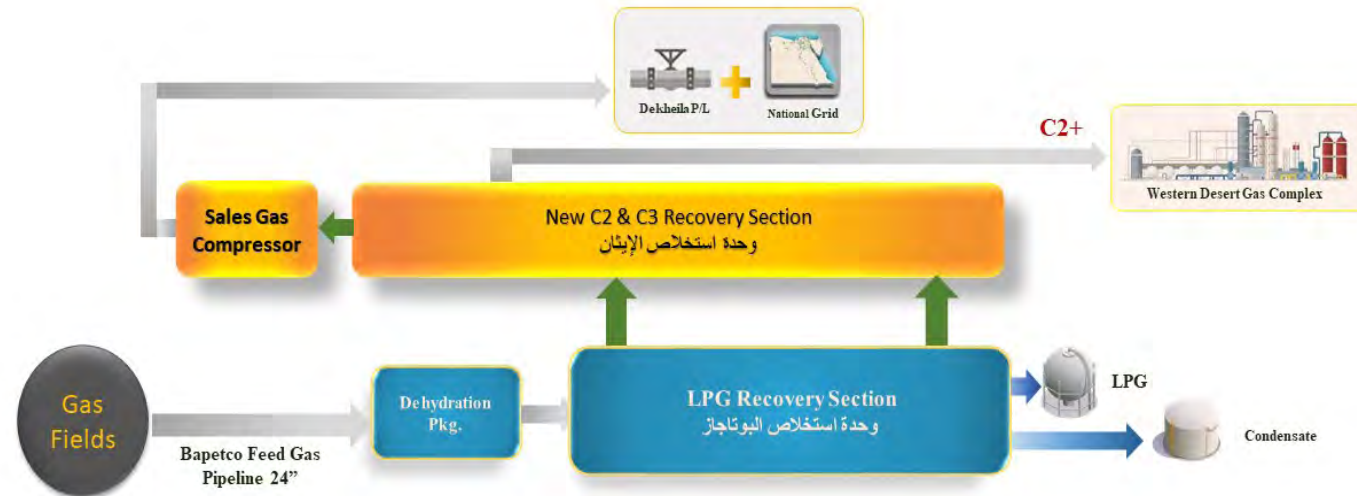
SECOND: GASCO took over the management & operation of the plant

In August 2000, The Egyptian Natural Gas Company GASCO took over the plants management and since then the production of LPG was developed and raised. This was achieved by developing the operational process & improving the separation efficiency in addition to several projects were implemented.



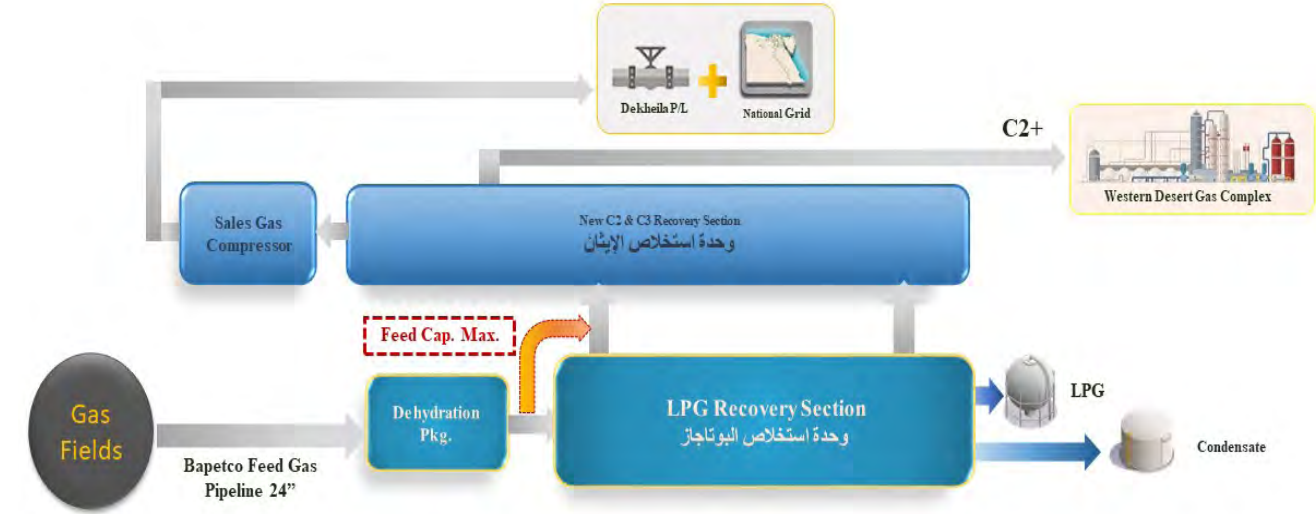
THIRD: The integration between LPG & WDGC project

In 2005, GASCO implemented a project to connect Amerya LPG & WDGC through establishing a pipeline with 13 KM length & 12 Inch diameter. The pipeline connects between the two plants and aims to optimize the utilization of the produced gases from the top of the Propane separation tower in Amerya LPG that was used as a fuel gas even in plant or in the iron & steel company in Alexandria which was rich in Ethane/Propane mixture. Hence, using these gases to maximize which are rich in. The off gases are then recycled to the WDGC to be used in producing extra amounts of the mixture.



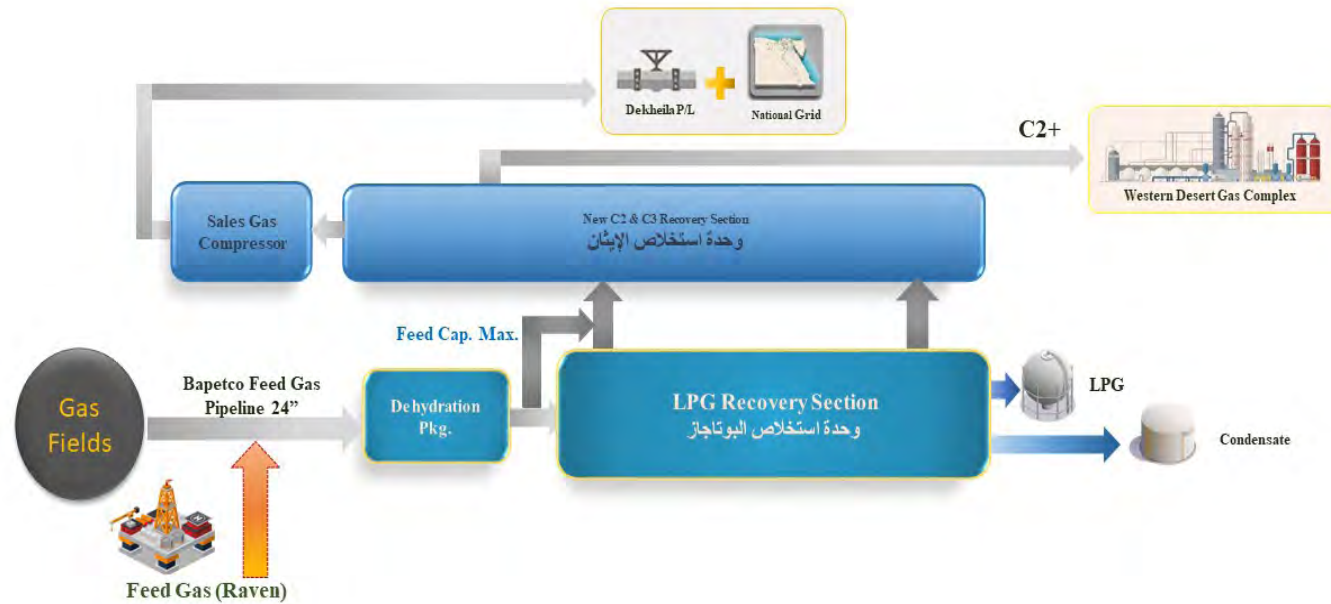
FOURTH: Optimizing Ethane/ Propane mixture project

The maximization of Ethane/Propane mixture project is considered as an extension of the integration between Amreya LPG and WDGC project which intends to optimize Ethane/Propane production in WDGC. As new facilities were added to Amreya LPG to get the Ethane and the heavier then delivering to WDGC to further separate the products. This project was completed in October 2010 to add extra amounts of the mixture to meet the industry needs in Egypt.



FIFTH: Implementation of pipeline towards the new facilities in LPG project

In 2017, a new pipeline was implemented for feed gases after the dryer unit towards Ethane recovery unit which leads to get benefits from the extra amount of feed gases, as well as operating the new facilities in case that the old plant stops for regular or planned maintenance, which helps in the operation continuity and guarantee the production process.



SIXTH: Establishing vessel facilities to receive Raven field gases

In 2022, new facilities were established to receive Raven field gases which comes with lower pressure than the feed gas from the Western Desert fields. In the frame of GASCO keenness to guarantee the operational process & implementing the production plans to fulfil the company's contractual obligations towards sister companies.

Safety & Quality

Amerya LPG is considered as one of the first leading production plants & sites in Safety, Occupational health & Environmental protection, and in order to keep this excellence, it was mandatory to apply the international standards of quality & have the optimal exploitation of materials and different potentials to achieve the goals & the ability of competences.





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