



Development Projects in Liquefaction, Refining and Petrochemical

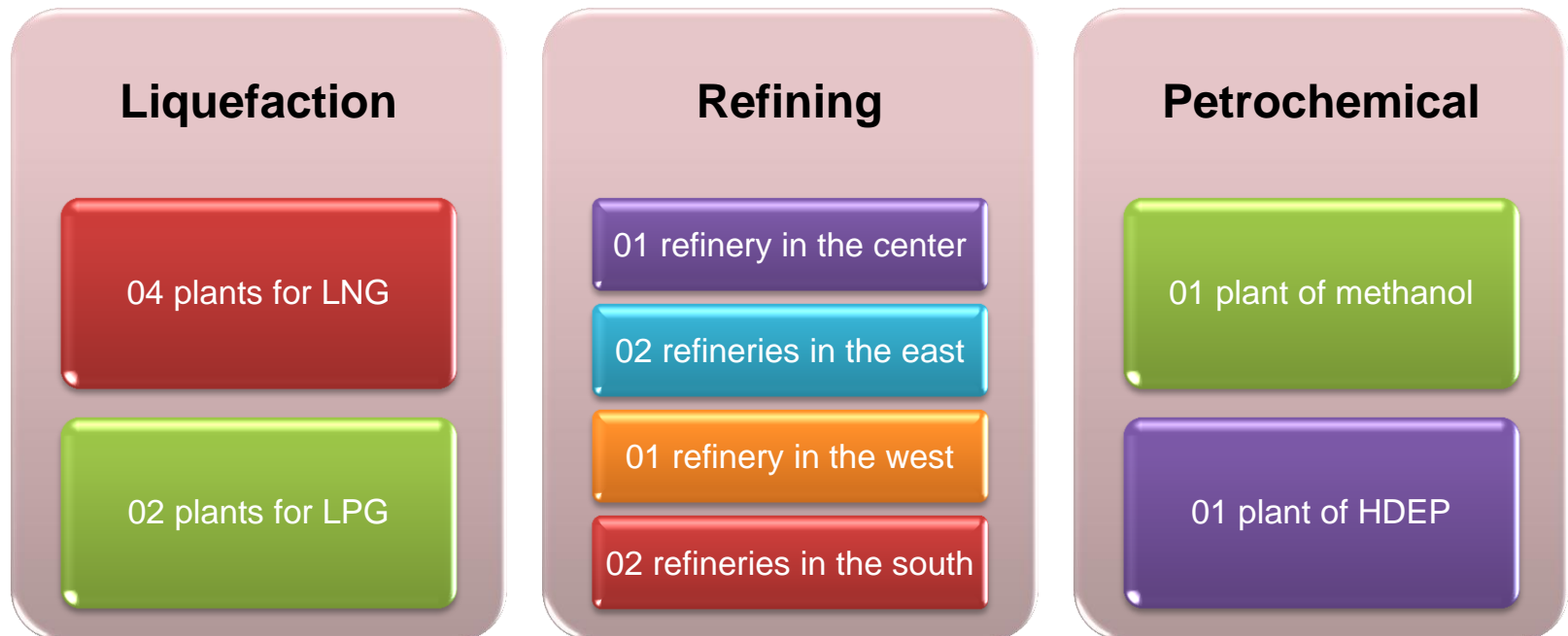
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Activité Liquéfaction, Raffinage et Pétrochimie

To enhance the country's natural resources, the Algerian Government, undertook, through SONATRACH, a huge development program in the downstream Activity.

SONATRACH Downstream Activity is divided into three fields:

- Gas liquefaction and separation;
- Refining;
- And petrochemical.



1.Liquefaction & Gas Separation

Liquefaction and Gas Separation

Current capacity

Liquefaction of Natural Gas - LNG

GL1Z



17.5 millions m³/y

GL2Z



17.8 millions m³/y

GL3Z



10.6 millions m³/y

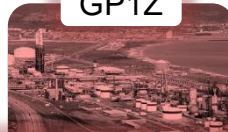
GL1K



10 millions m³/y

Gas Separation - LPG

GP1Z



09 millions tons/y

GP2Z



1.4 millions tons/y

The current capacity for GNL, coming from the 04 plants is **56 millions m³/y**.

The **LPG** production is **10.4 millions tons/y**

Development Project

Rehabilitation

GL1Z



17.5 millions m³/y

GL2Z



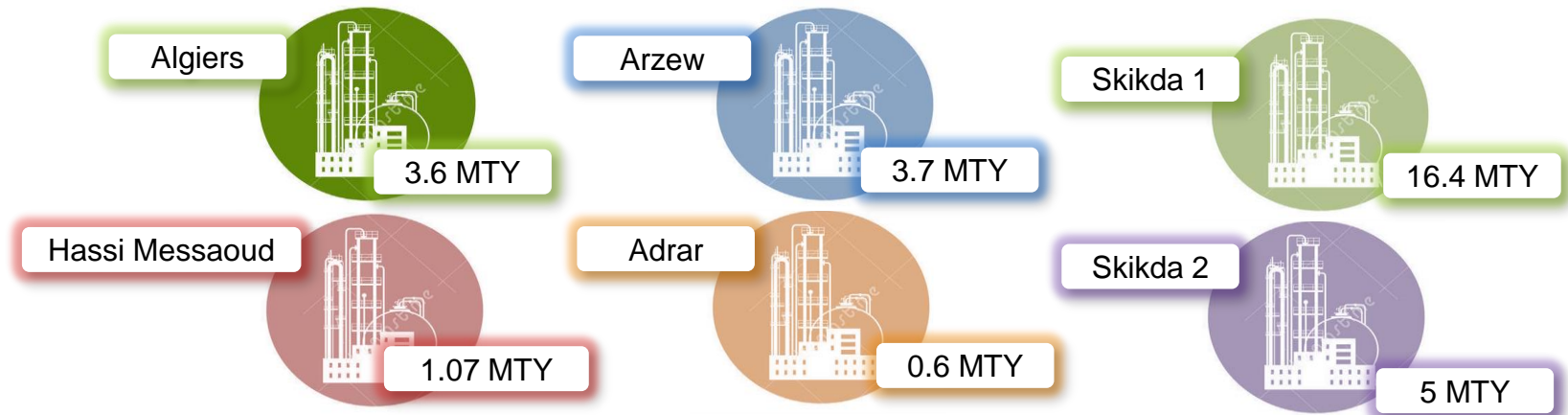
17.8 millions m³/y

In the LNG, the Development project is about two LNG plants **rehabilitation**, the **GL1Z** and the **GL2Z**, for a total capacity of **35.5 millions m³/y**

2. Refining

Current capacity in Refining

Current configuration : 06 refineries



The current capacity of refining is about **30 Millions tons/y, through 06 refineries:**

- 01 refinery in the center
- 01 refinery in the west
- 02 refineries in the east
- And 02 refineries in the south of the country

Refining development program

04 new refineries

Tiaret



5 MTY

Hassi Messaoud



5 MTY

Arzew



5 MTY

Biskra



5 MTY



Skikda



Fuel cracking – 4,5 MT



Reforming 1



1.7 MTA

Reforming 2



1.7 MTA

04 new refineries, for a total capacity of **20 MT/y**, are being launched.

The additional production capacities, coming from the new refineries, will bear the national refining capacity to 50 MTY and move from a hydroskimming refining system to a Deep Conversion scheme

To optimize and enhance the existing charges (Fuel & naphtha) at the Skikda refinery, two projects are planned:

- One (01) Fuel Cracking plant with a capacity of **4.5 MTY** to maximize the diesel production,
- Two (02) Reforming plants with a total capacity of **3.4 MTT** for maximizing gasoline production.

3. Petrochemical

Petrochemical

Current capacity

Methanol -
Arzew



112 000 tons/y

HDEP -
Skikda



130 000 tons/y

Ethane Steam
cracking - Skikda



120 000 tons/y

The petrochemical activity owns 2 petrochemical plants, one for **methanol** production, with a capacity of **112 000 Tons/y** and the other for the **HDEP** production, with a capacity of **130 000 Tons/y**, **added to** a third plant under rehabilitation to produce Ethylene, with a capacity of **120 000 Tons/y**, for the HDEP Plant. .

Projets de développement

Ethylene



1 million tons/y

PDH/PP



600 000 tons/y

Methanol



1 million tons/y

Tires



05 millions units/y

These projects will be done through partnerships with leaders.

Opportunités d'investissement

- For the mentioned projects realization, SONATRACH has initiated discussions with leading companies and invite the American companies wishing to invest in downstream, in Algeria, to express their interest, in order to initiate discussions and examine together the opportunities for a successful partnership.
- Algeria has incentives strengths for investment, through :
 - An investments code advantageous for investors (eg tax exemption for 10 years) ;
 - competitive price of production costs ;
 - Availability of utilities and energy sources : natural gas, water ; electricity;
 - Low cost and availability of the local workforce ;
 - Access to land;
 - Export possibility, after satisfaction of national demand.

Thank you for your attention