



MINISTÈRE DU PÉTROLE ET DES ÉNERGIES



WEBINAR – OPPORTUNITIES IN SENEGAL: ENERGY & RELATED SECTORS

OVERVIEW OF SENEGALESE ENERGY SECTOR

21 sept 2023



Energy context in Senegal

Upstream

- **31 petroleum blocks** : 07 onshore + 13 offshore + 09 ultra deep ;
- Gas Production : DiamNiadio (EOL) & Gadiaga

Downstream

- SENELEC (+IPPs) - total installed generation capacity : **1499 MW**
- Refinery SAR : **30,000 b/j** <>>1,5mpta (40% of total demand)
- Storage capacity: **500,000m3** (liquids)
- Fuel distribution stations : **+1150** (land & marine)



Oil Ressources

- **Proven and recoverable : +600 MM barils** spread into several blocks : RSSD, ROP, SOSP

Gas Ressources

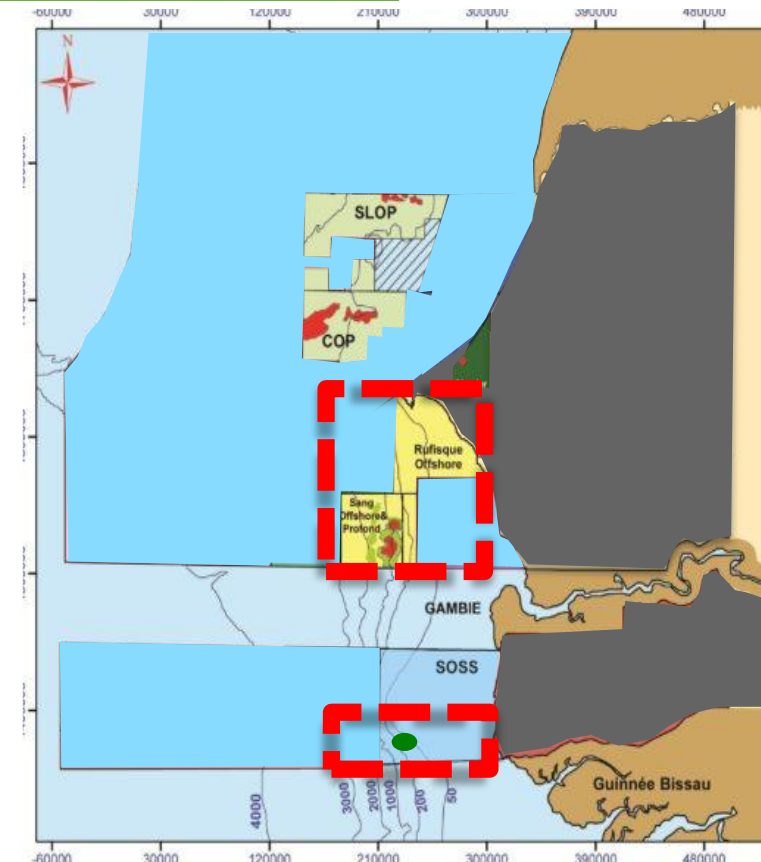
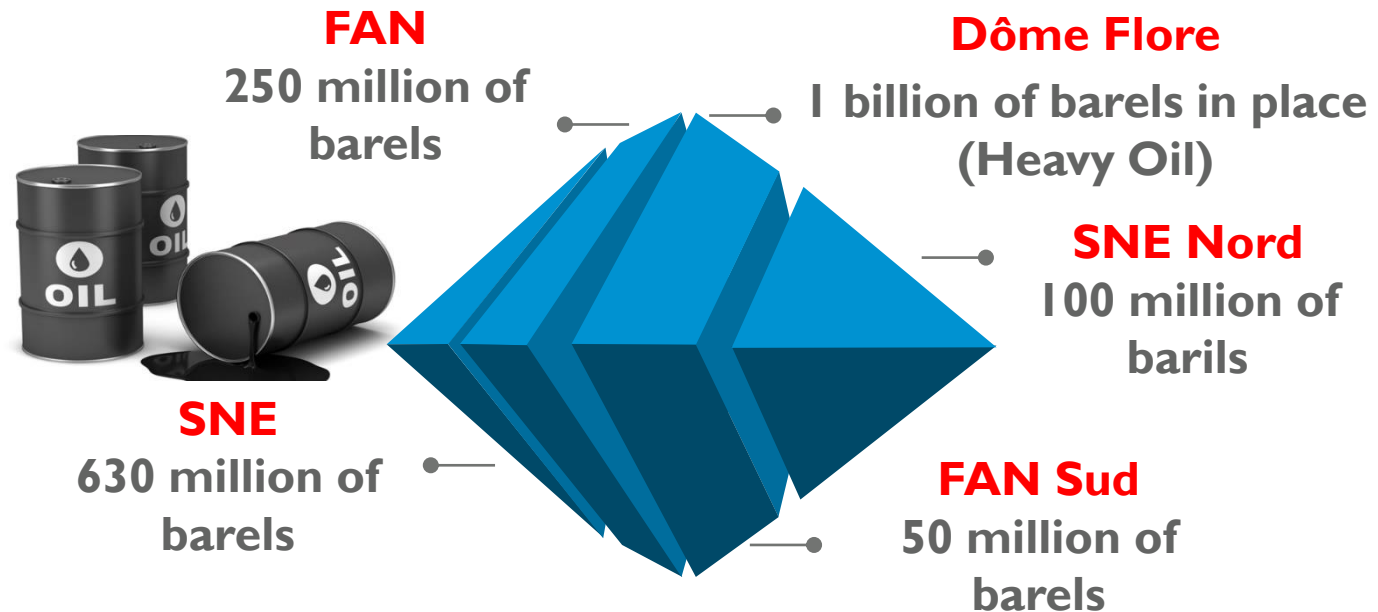
- **Estimated and recoverable :+32 TCF** of associated and non associated gas, spread into several blocks RSSD, COP and SLOP,

Senegalese oil resources

Senegal oil reserves

- West African crude type
- Low sulphur crudes with associated gas

- Around 930 millions barrels estimated
- 1 world-class oil field under development
- Production partly valorized locally

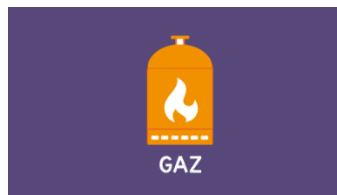


Senegalese gas resources

Sénégal gas reserves

- Africa Top 10
- Global Top 30

- Around 30 TCF estimated
- 3 world-class LNG fields
- Potential for a dynamic local and regional gas market

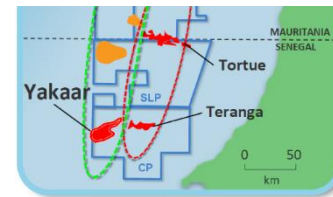


SNE

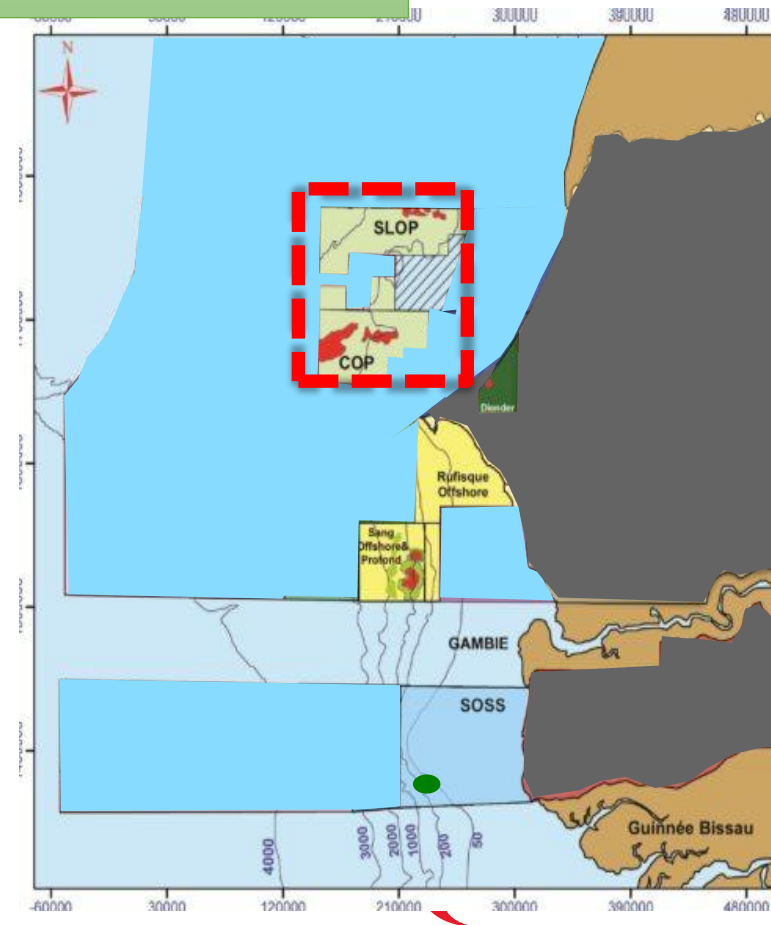
Téranga



Yakaar



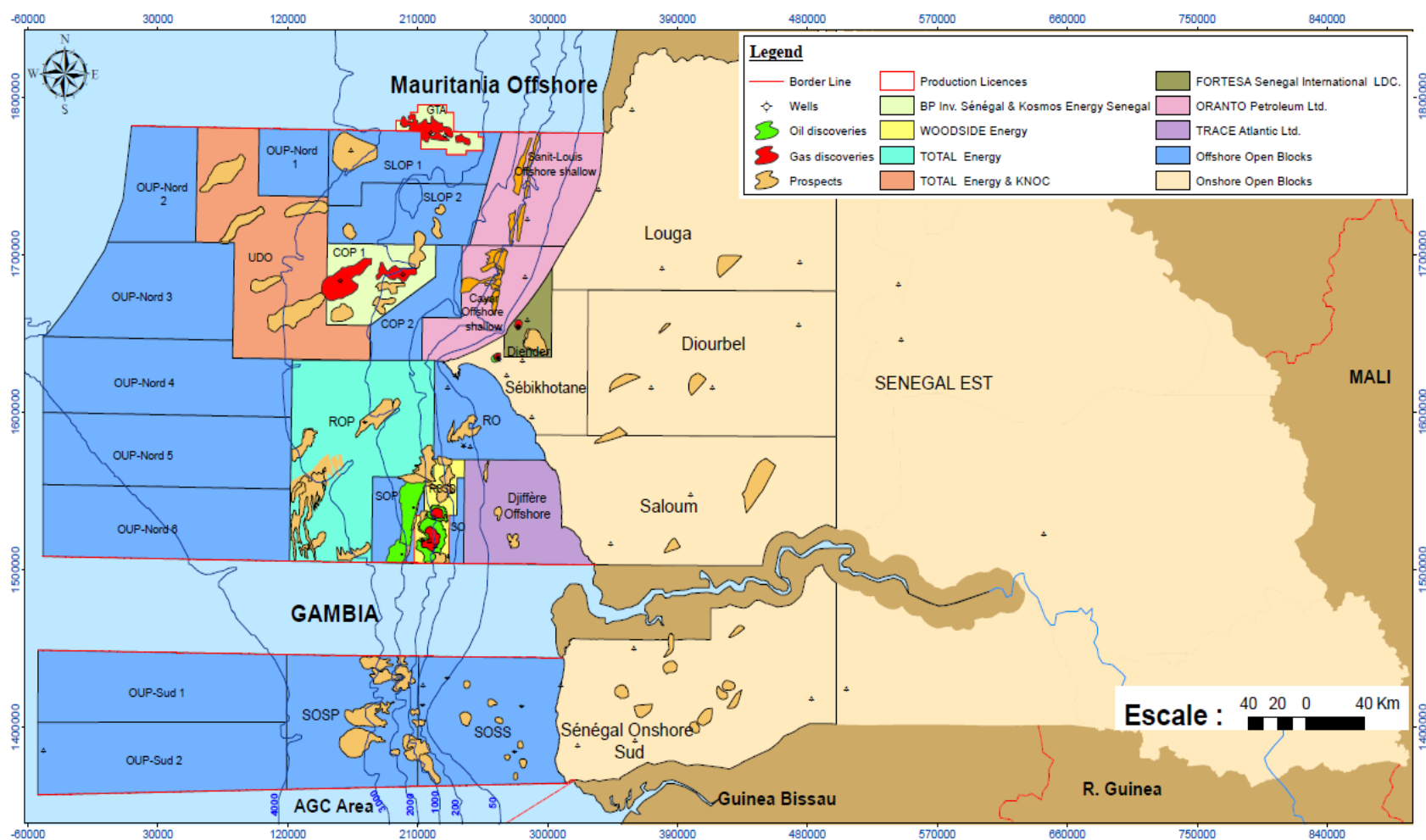
Grand Tortue/Ahmeyim (GTA)



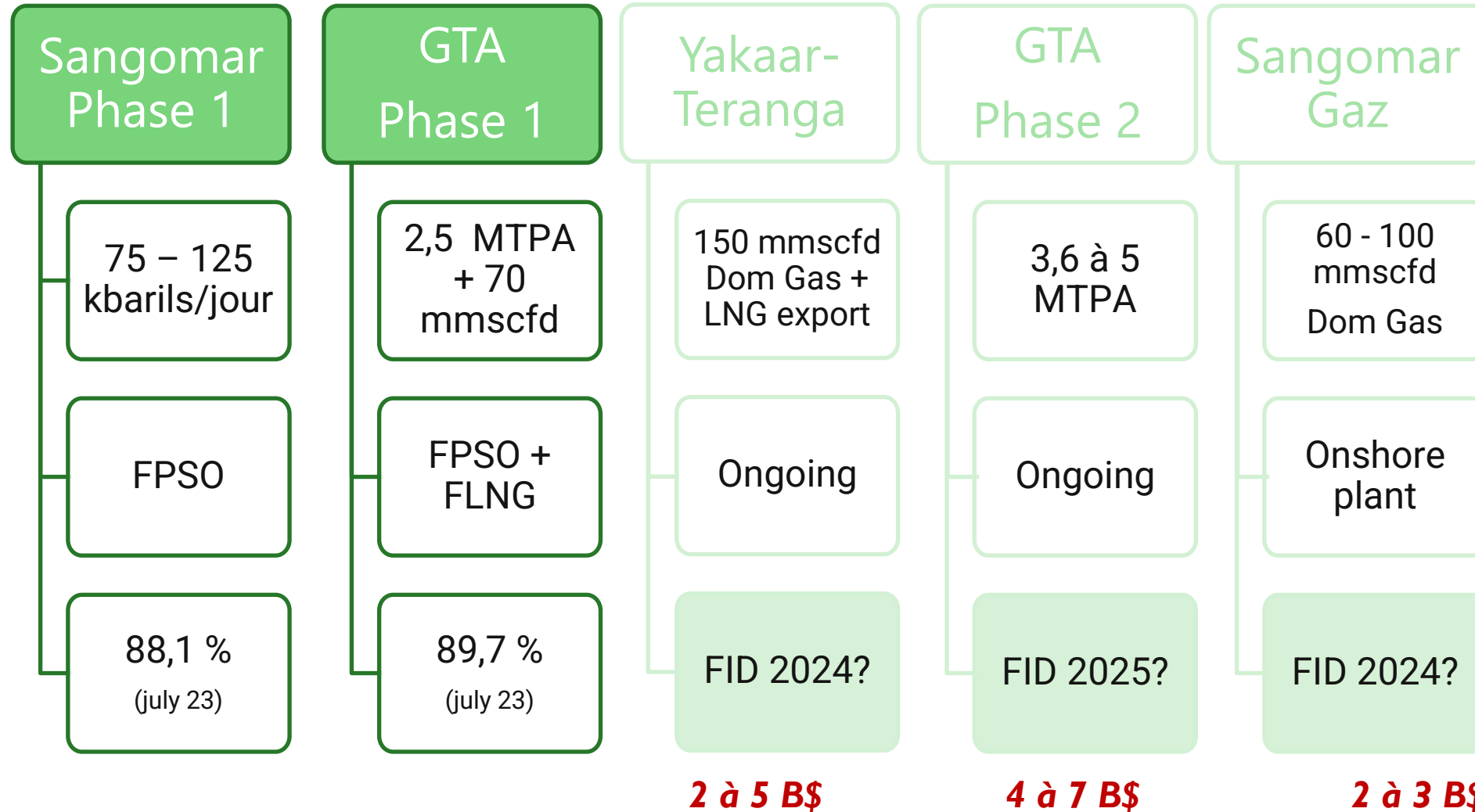
Phases	Production start-up	Resources (TCF)	Targeted destination	Status
GTA phase 1	2024	10*	International market	Development ongoing
GTA phase 2	2027/28		To define	Studies ongoing
GTA phase 3	2030+		To define	Studies ongoing
Yakaar - Teranga	2024/25	15 + 5	Local & international market	Studies ongoing
Sangomar gas	2025+	2,4	Local Market	Studies ongoing
Total		32,4		

Several blocks available

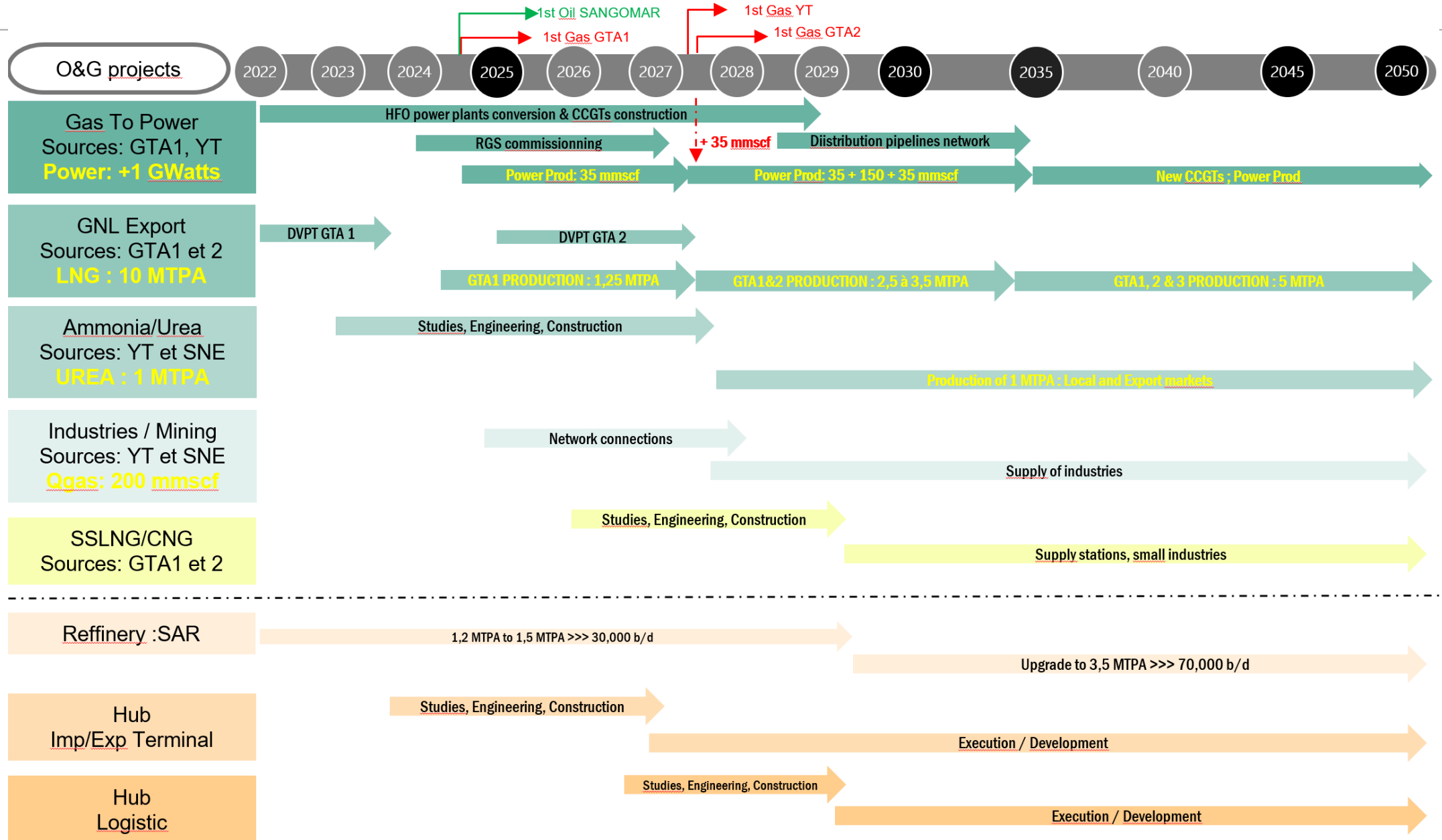
16 offshore blocks and 6 onshore blocks available



Upstream projects updates



O&G Roadmap



Partnership between Senegal & Japan

Chiyoda Corporation // Mitsubishi Corporation

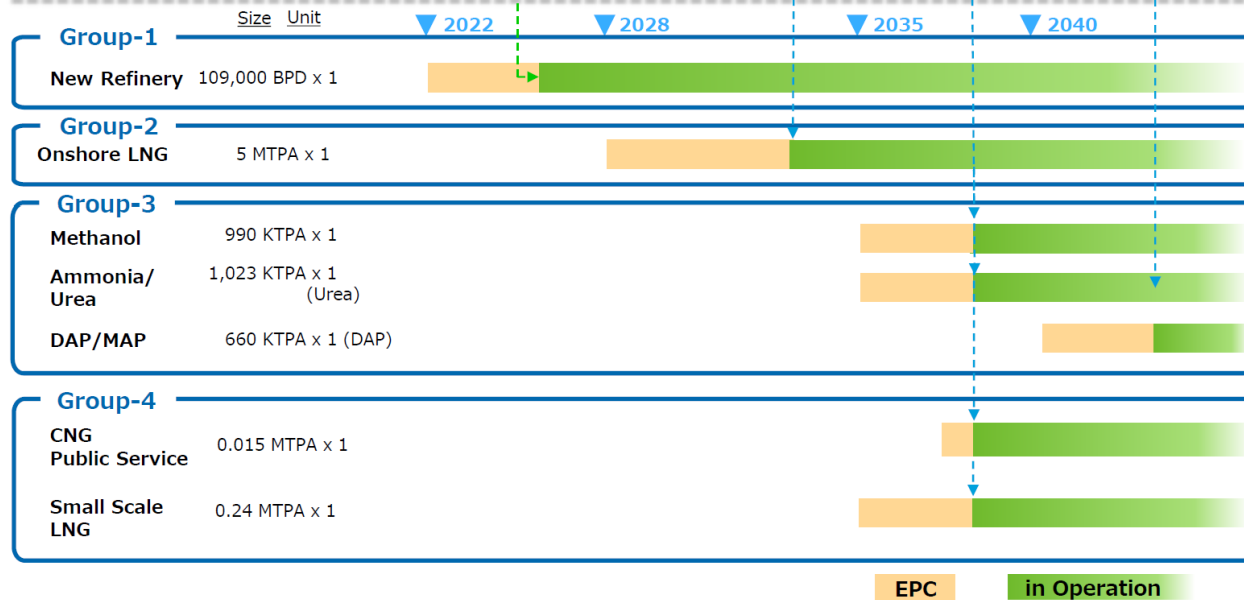
2018-2019 - Senegal Oil & Gas Master Plan No.SNG-CD-20180322-01 presented on March 2018 and updated on January 2019

GRAND TORTUE

FLNG

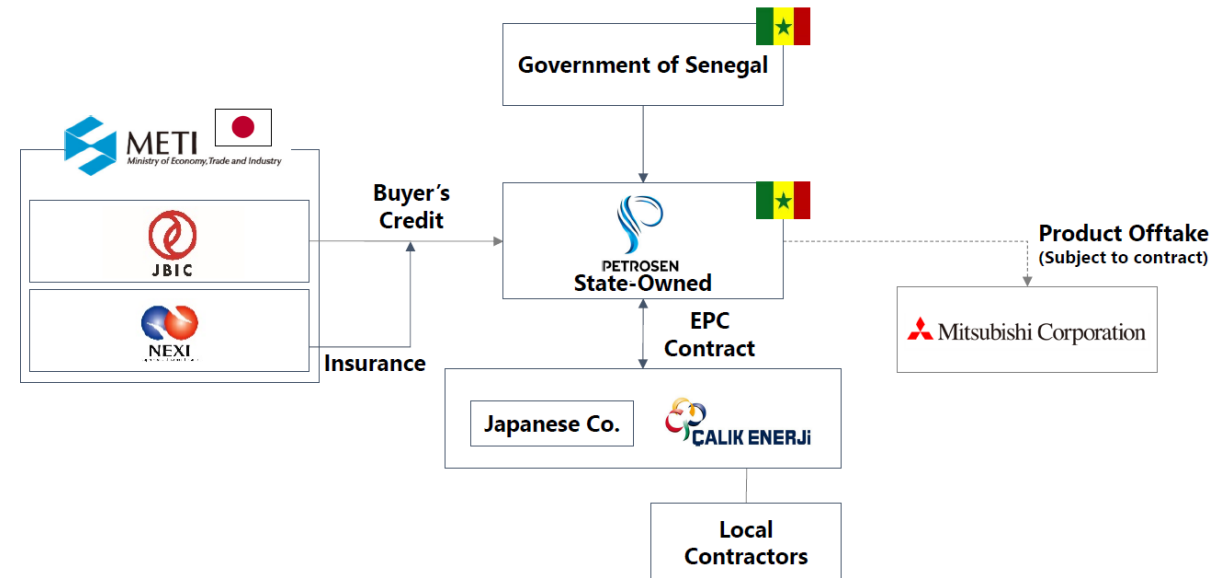
CAYAR

SANGOMAR

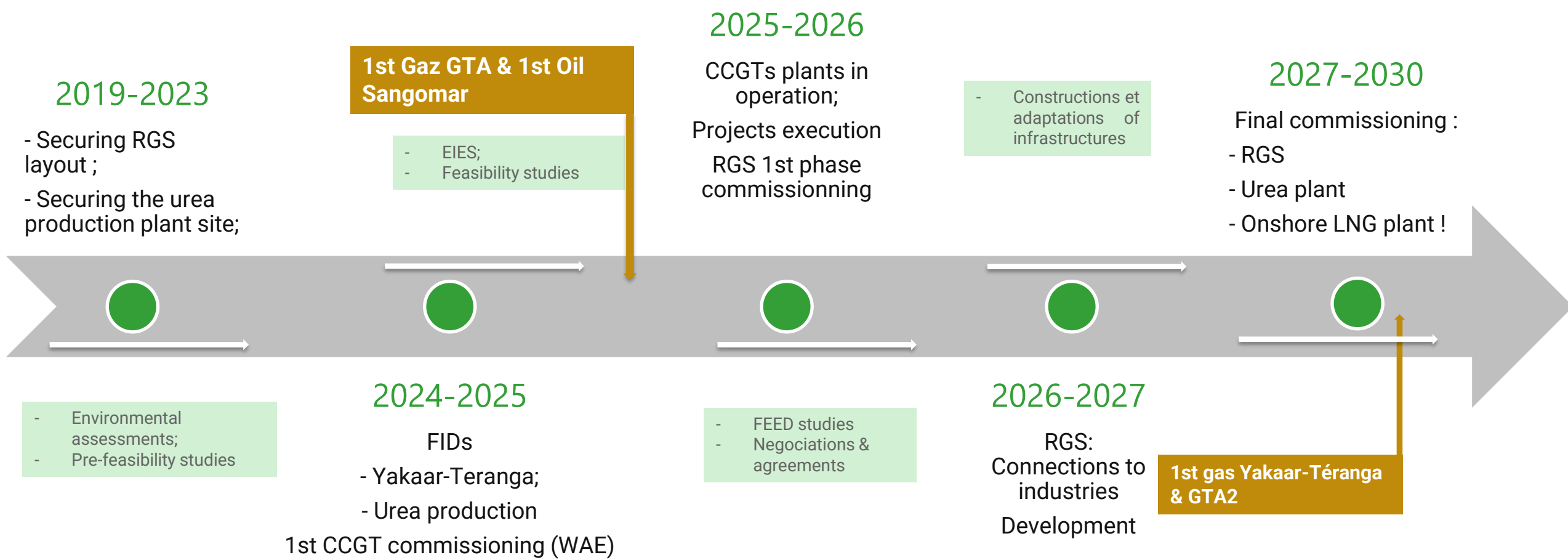


Nippon Koei // Mitsubishi Corporation & METI

2022-2023 - Under METI's contract, Mitsubishi Corporation, Nippon Koei and PETROSEN have been cooperating to examine the pre-feasibility of co-production plant of urea fertilizer and methanol.



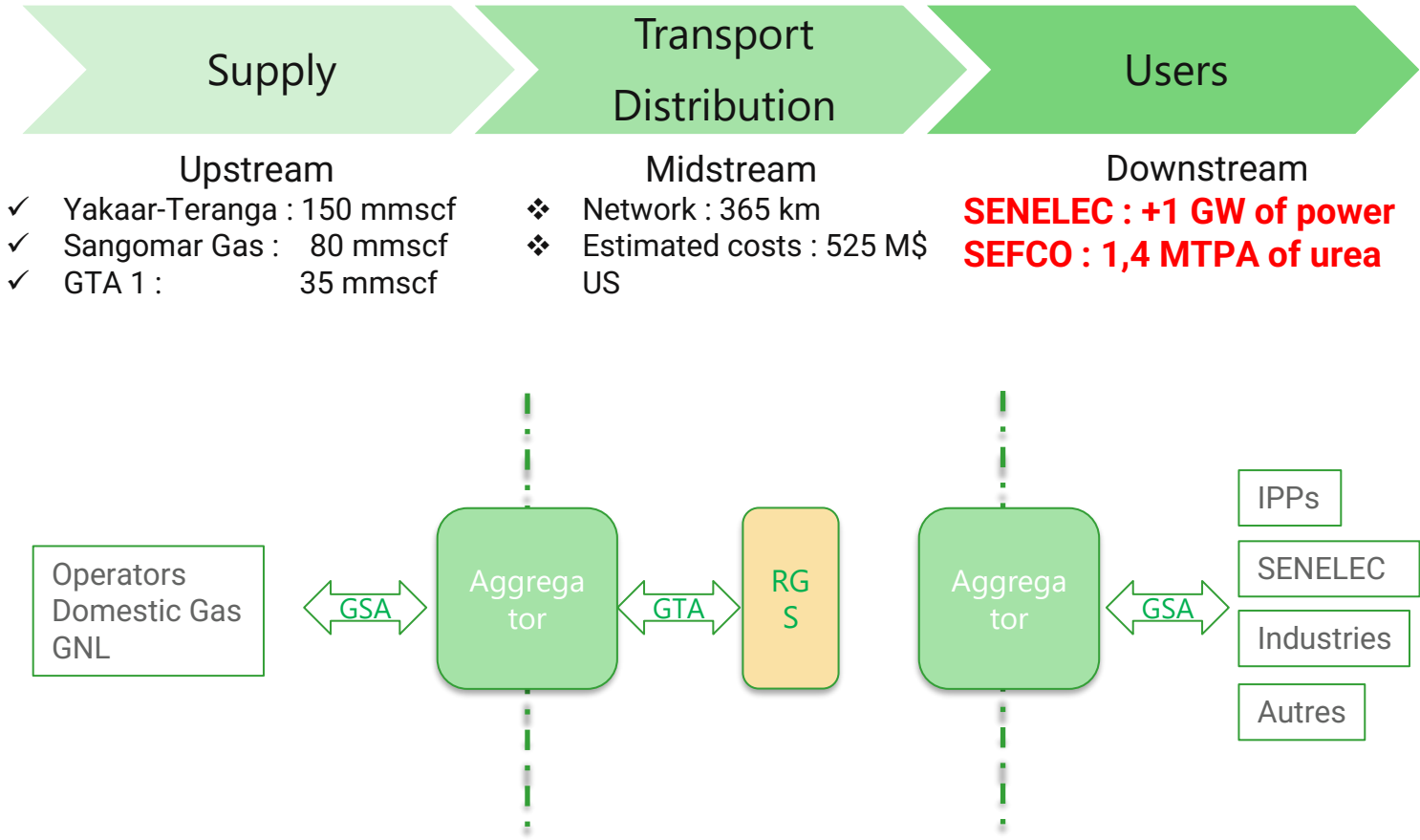
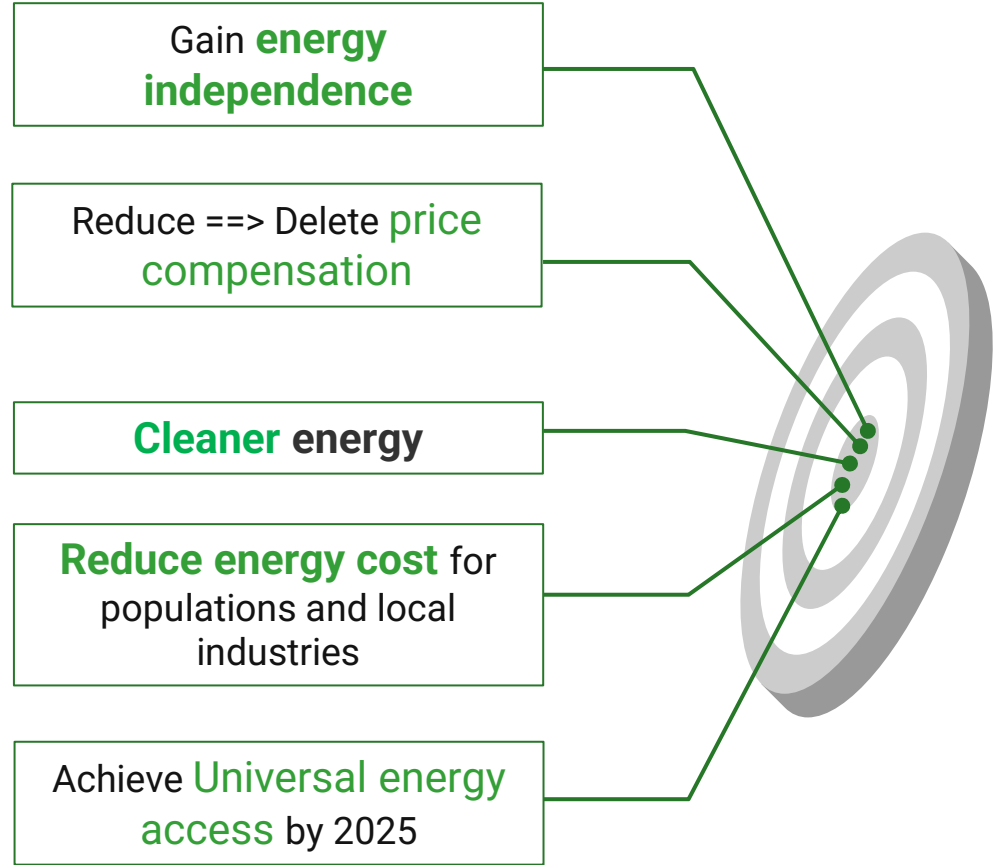
Strategy for industrialisation



Notes:

● Key milestones

Gas to Power Strategy



GSA : Gas sale Agreement (Accord de Vente de Gaz)
GTA : Gas Transport Agreement (Accord de Transport de Gaz)



Partnership opportunities in Senegal

Free exploration blocks

- 16 offshore
- 6 onshore

Refinancing of the NOC/PETROSEN interest share in derisked projects

- GTA Phase 1: 500 millions \$US
- Sangomar Phase 1 : 450 millions \$US

Financing Oil and Gas projects under studies

- GTA Phase 2 : 500 millions \$US
- Yakaar-Teranga Phase 1 : 500 to 700 millions \$US

Gas to power

- Gas pipelines network Phase 1 : 100 millions \$US
- Gas pipelines network Overall : 400 millions \$US

Downstream projects

- Refinery upgrade : 500 millions \$US
- CNG & LNG fueling stations : 20 millions \$US
- LPG storage facilities : 48 millions \$US
- Fertilizer plant : 1,455 millions \$US

On the market



1,25 MTPA (2024) to 5 MTPA (2027/30)



100,000 barrels (Sangomar's 1st phase)



1,2 MTPA (+80% for Export)

SENEGAL

Democratic and political stability with **friendly** infrastructures; facilities and **business**

Several world class projects are being successfully executed within a very short term!

Senegalese and MSGBC basins were **one of the most prolific basin in the world** in terms of discovery and resources proven

Investors can credit the **full commitment** of all public entities for further development!





Thank you