

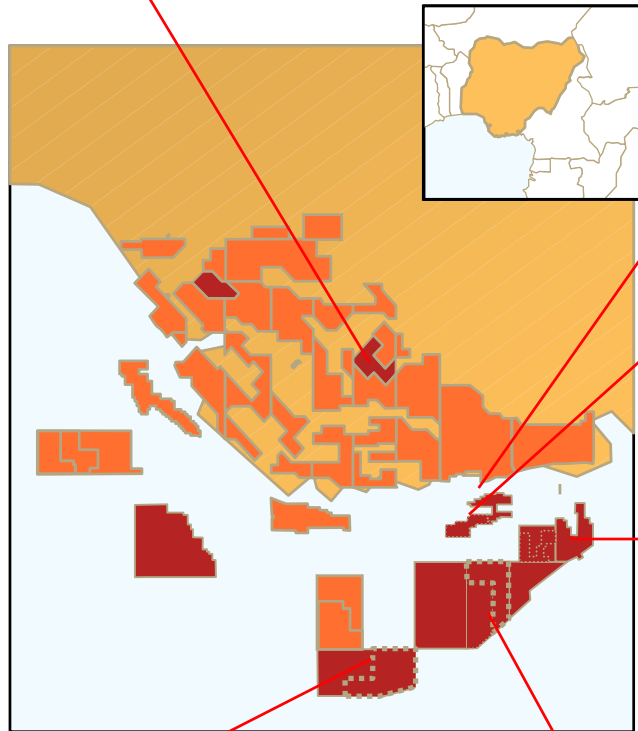


Major Upstream Projects in Nigeria

November 10, 2005

Nigeria : well-diversified portfolio of Total-operated projects

OML 58 (40%, op.)
Upgrade start-up : 2008(e)



NLNG (15%)

Amenam (30.4%, op.)
Oil phase start-up : 2003
Gas phase start-up : 2007(e)

Ofon Ph. II (40%, op.)
Start-up : 2009(e)

Akpo (24%, op.)
Start-up : 2008(e)

Usan (20%, op.)
Start-up : 2010(e)

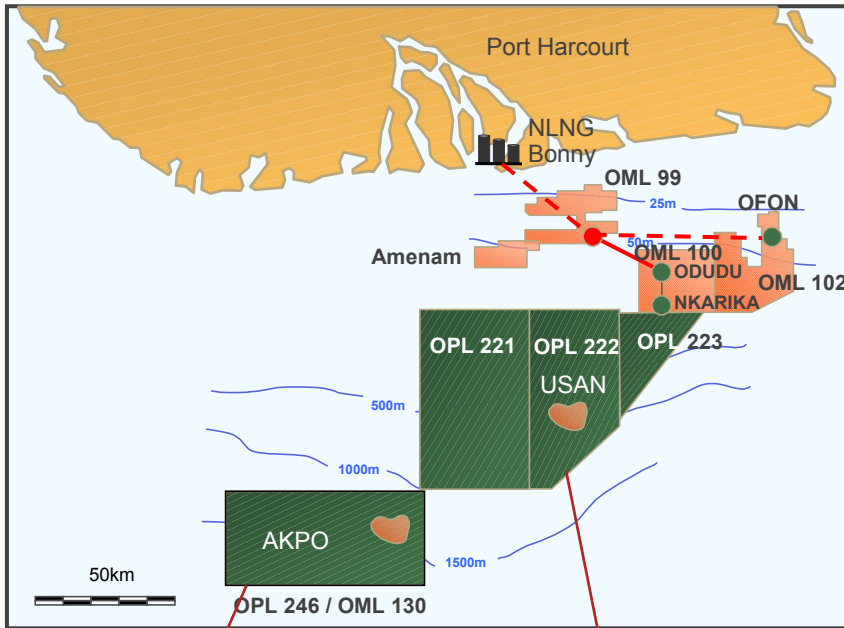
■ *Total-operated*
■ *Participation*

- Expanding from onshore to offshore and deep-offshore
- Operations concentrated in eastern area
- Rapid build up of gas and LNG activities
- New phases on existing projects



TOTAL

Growing with deep-offshore operated projects



- Akpo and Usan : two giant field developments operated by Total
- Resulting from successful exploration between 2000 and 2005
 - Successful appraisal on Usan in 2005
- Very concentrated area of operations
- High level of local content

Akpo FPSO (24%, op.)

Start-up : 2008(e)
Peak production : 225 kboe/d

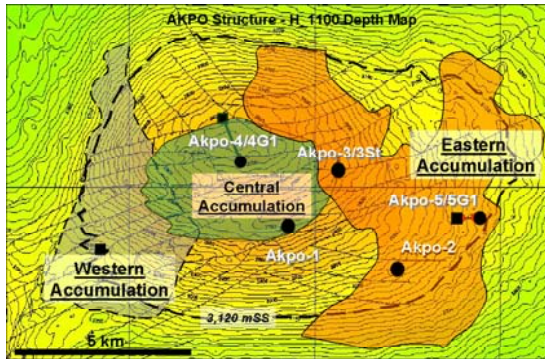
Usan FPSO (20%, op.)

Start-up : 2010(e)
Peak production : > 150 kboe/d

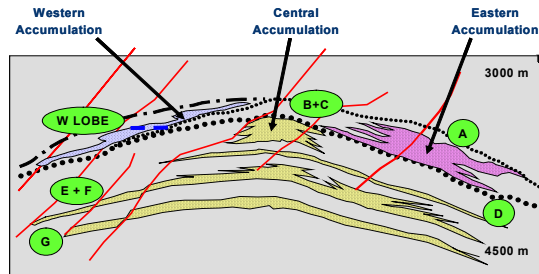


TOTAL

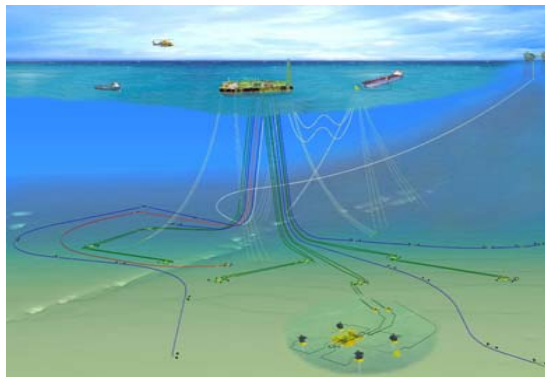
Akpo development launched in 2005



- Total operator, 24%
- 5 exploration/appraisal wells on Akpo field (100 km²)
- Approx. 600 Mb of condensate + 1 Tcf of gas* to supply NLNG



- 44 producing wells on 5 reservoirs (lobes and channels)
- Production capacities :
 - 175 kb/d of condensates
 - 300 Mcfd gas export
 - 200 Mcfd re-injected
 - 2 Mb storage capacity, offloading every 5 days



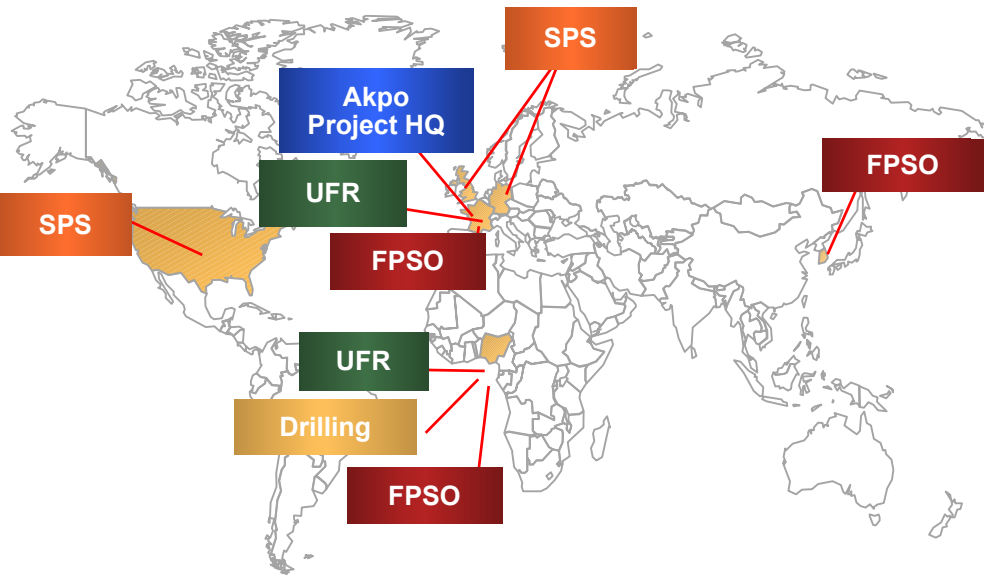
- Main milestones :
 - Discovery in 2000
 - Project sanctioning : 2005
 - Drilling spud : 2006(e)
 - First condensates : end-2008(e)
 - First gas : 2009(e)

* proved and probable reserves



Akpo : managing a worldwide-based project

Location



- | Location | Activities |
|-----------|---|
| ▪ Nigeria | Asset management, fabrication and installation of Umbilical Flowlines and Riser (UFR), Subsea Production Systems (SPS) and installation of FPSO Drilling and Operations |
| ▪ France | Engineering & Management |
| ▪ Korea | FPSO |
| ▪ UK | Wellheads |
| ▪ USA | Subsea manifolds |
| ▪ Germany | Control systems |

■ Capex : approx. 5 B\$

■ EPC contracts signed in May 2005

■ Drilling rigs secured

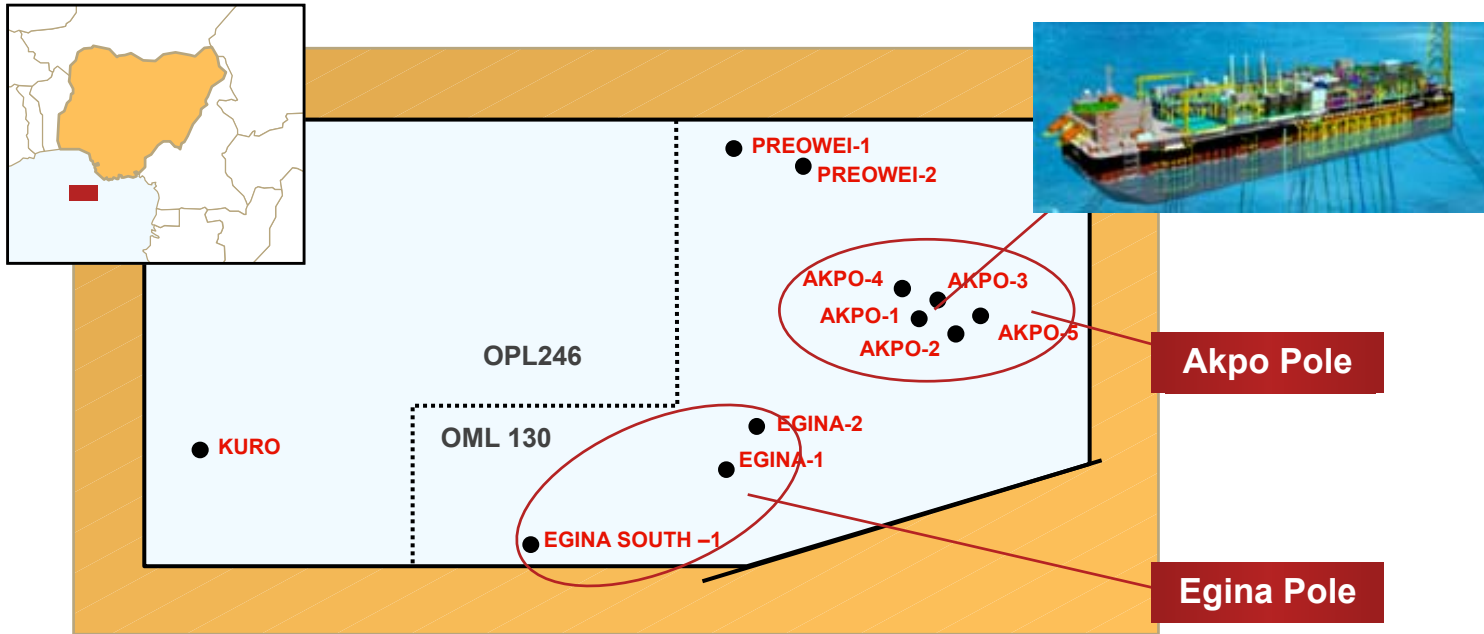
■ Nigerian content

- Approx. 30%
- 7.5 million manhours



TOTAL

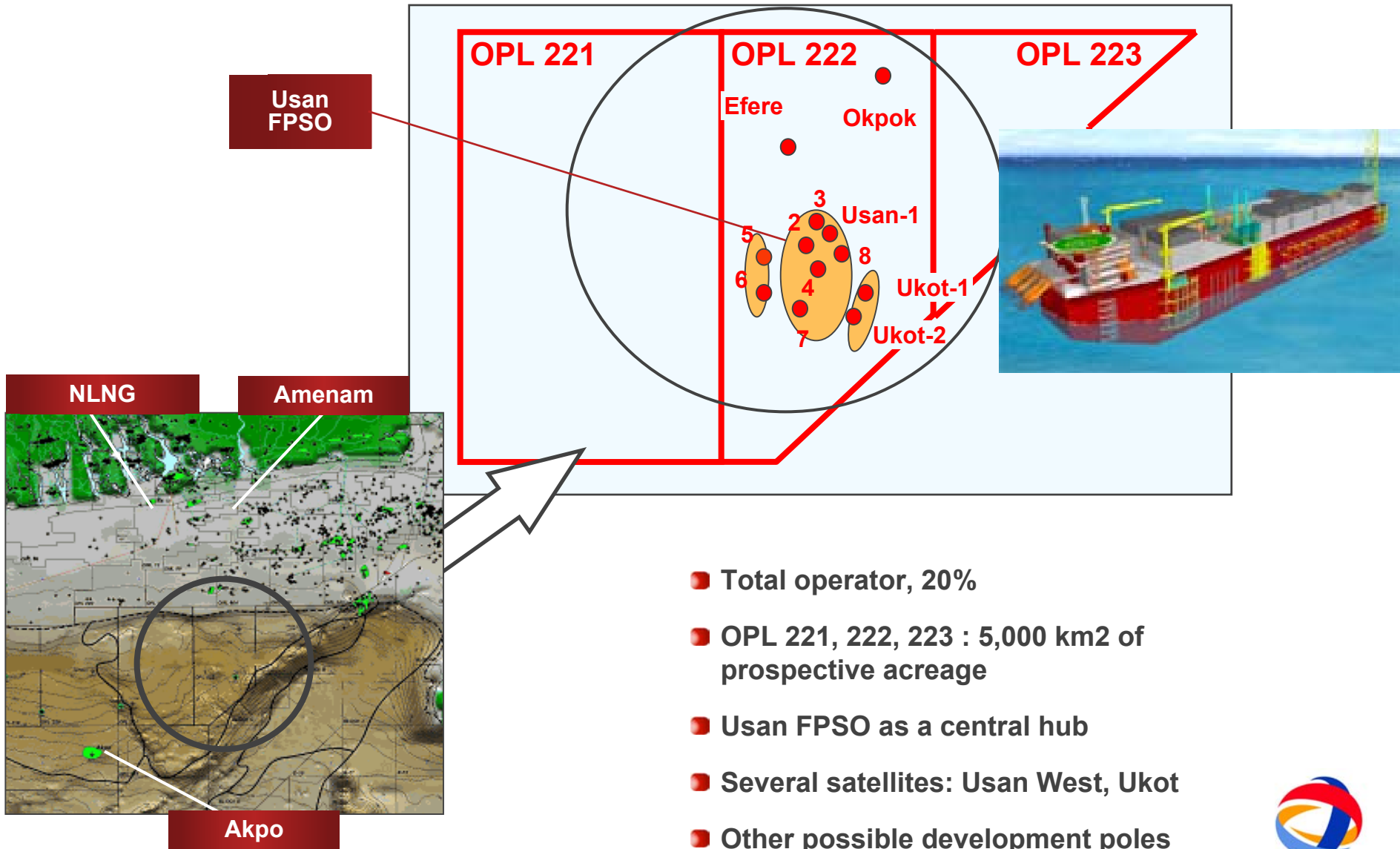
OML 130 : new potential poles of development for the next decade



- 11 wells drilled end-2005
- OML130 conversion (50% of OPL 246) in 2005
- 5 discoveries : Akpo, Egina, Preowei, Egina South, Kuro
- Additional recoverable oil > 500 Mb
 - Gas reserves under evaluation
- Further exploration & appraisal underway
 - 3 wells planned for 2006
- Main challenges :
 - Reservoir complexity
 - Spread of oil fields



Usan : Total operator of the “triangular bulge”



- Total operator, 20%
- OPL 221, 222, 223 : 5,000 km2 of prospective acreage
- Usan FPSO as a central hub
- Several satellites: Usan West, Ukot
- Other possible development poles



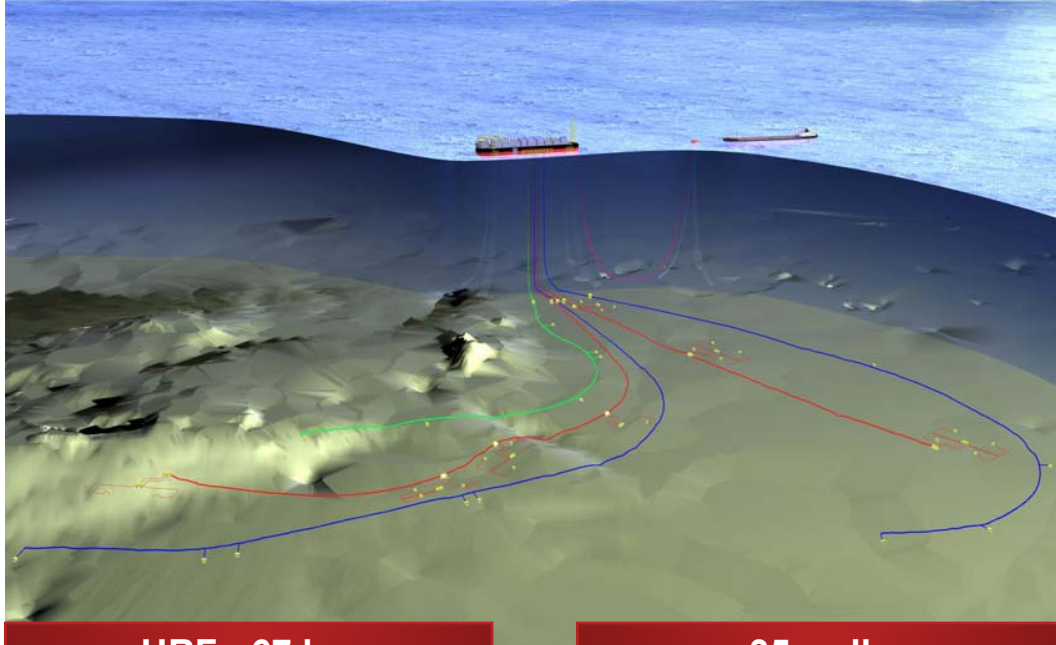
Usan : development studies underway

Spread moored FPSO

- 2 Mbbls hull
- >150 kboe/d

SPS

- 7 manifolds
- 35 vertical trees



URF : 67 km

- 2 x 10" production loops
- 3 x 8" injection lines
- Flexible or riser towers

35 wells

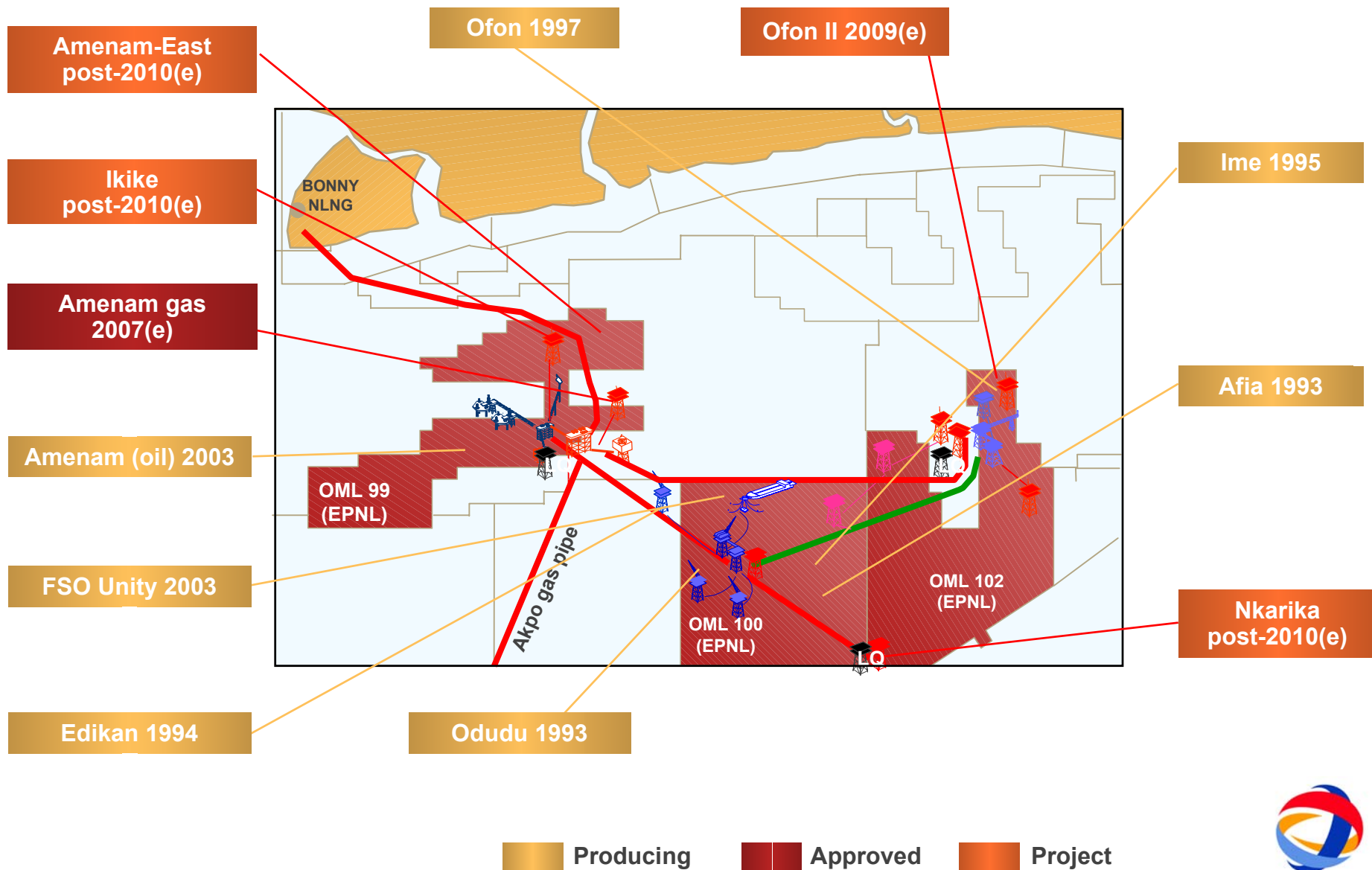
- 20 producers, 15 injectors
- 20 intelligent completions

- **Discovery in 2002**
- **Basic engineering underway**
- **FID : 2006(e)**
- **Deep-offshore development**
 - Water depth of 730-850 m
 - FPSO: process capacity 150-200 kboe/d
 - Storage capacity 2 Mb
 - 26 km of production lines
 - 24 km of injection lines
 - Offloading buoy
- **First oil target 2010(e)**

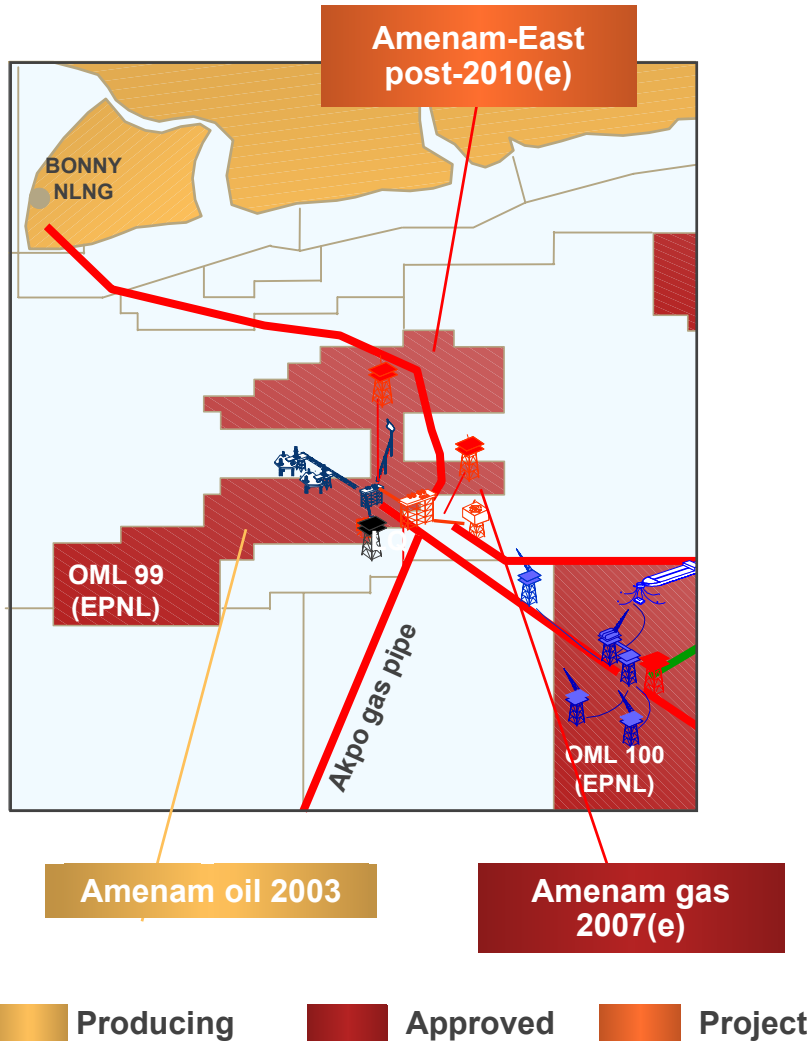


TOTAL

Consolidating conventional offshore positions for both oil and gas projects



Amenam : phased development of a giant field



Amenam Phase I (oil) : 125 kb/d*

- Total operator, 30.4%
- Start-up : July 2003
- FSO
- Short development schedule
- Low technical costs

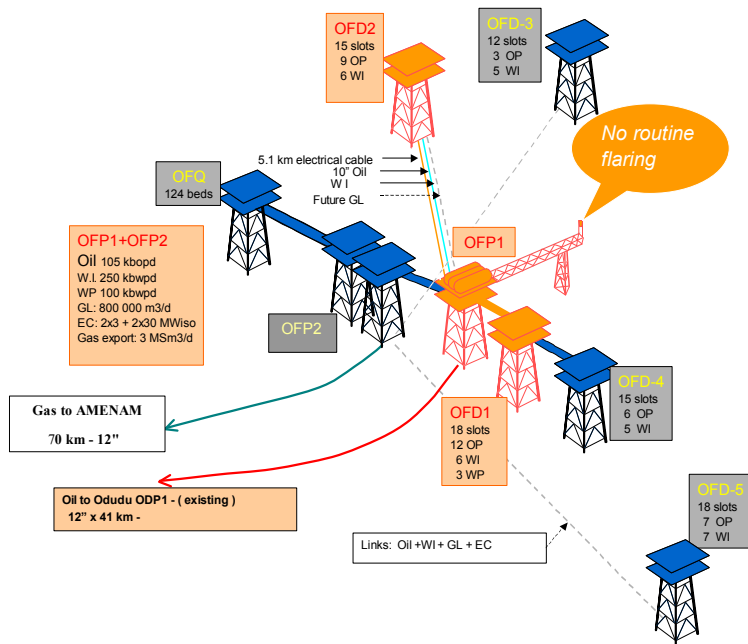
Amenam Phase II (gas) : additional 50 kboe/d*

- Start-up : 2007(e)
- Supplying NLNG
- 300 Mcfd delivery
- 24" export pipeline to NLNG plant, 60 km long, capacity of 750 Mcfd
- 9,500 tons process and treatment platform for water injection and gas export
- 12 slots drilling platform for 6 water injection wells

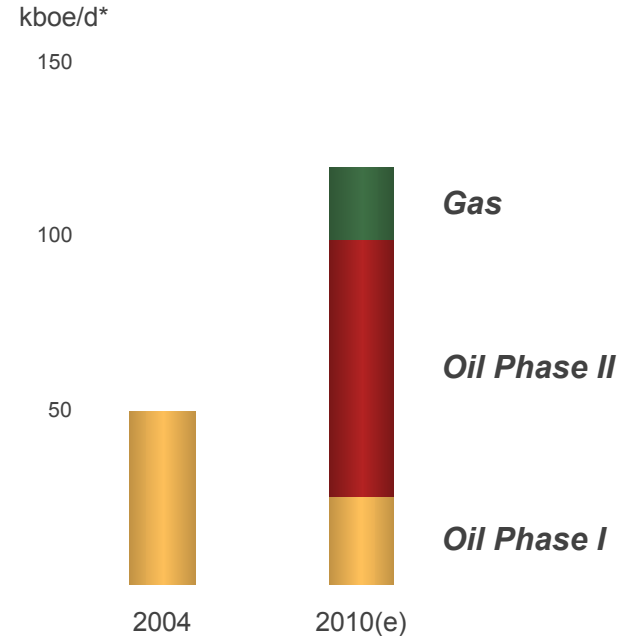
* production capacity

Ofon Phase II : +70 kboe/d to peak production by end-2009(e)

Ofon Phase II Future field layout



Ofon production (100%)



- FID : 2006(e)
- Project start-up : 2009(e)
- High level of local content

- Total operator, 40%
- Gas monetization through NLNG
- Flaring ends end-2009(e)

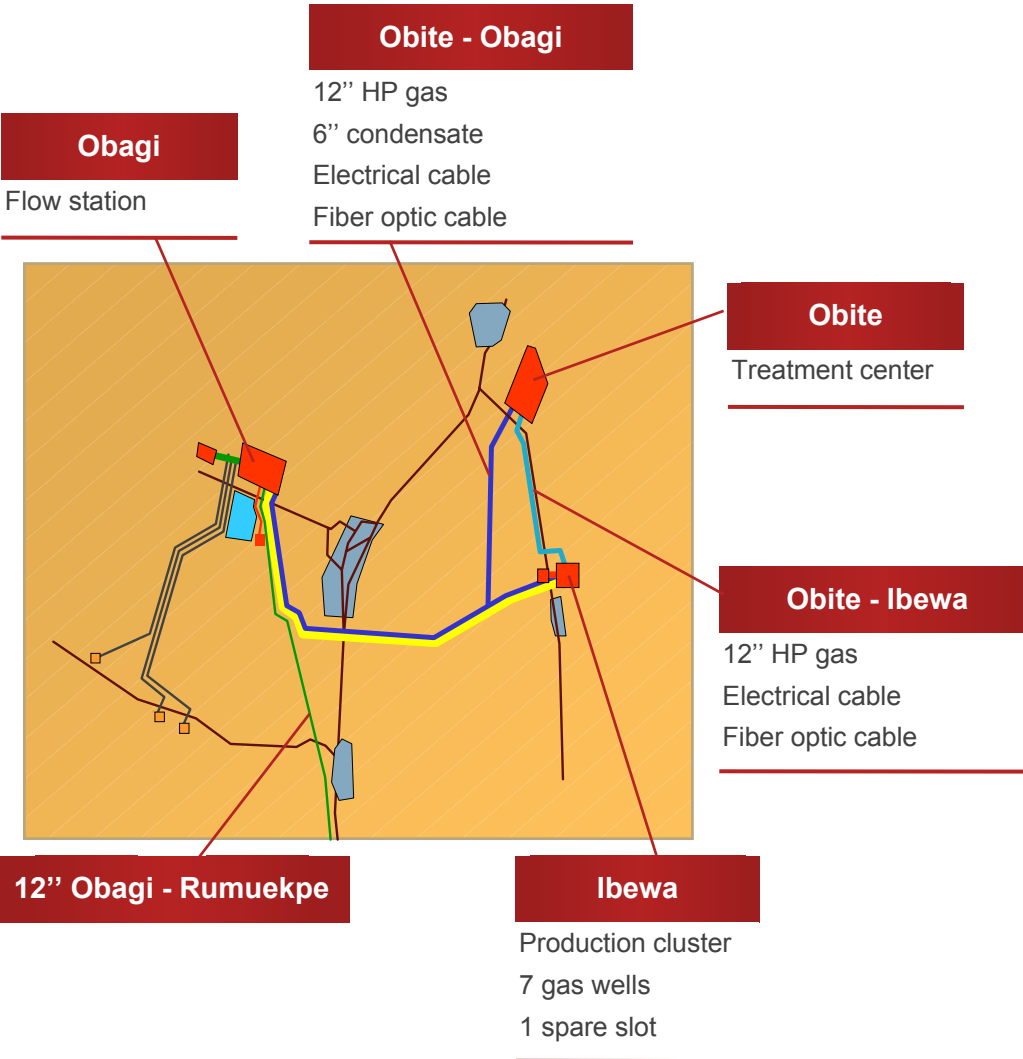
* in a 25 \$/b Brent environment



TOTAL

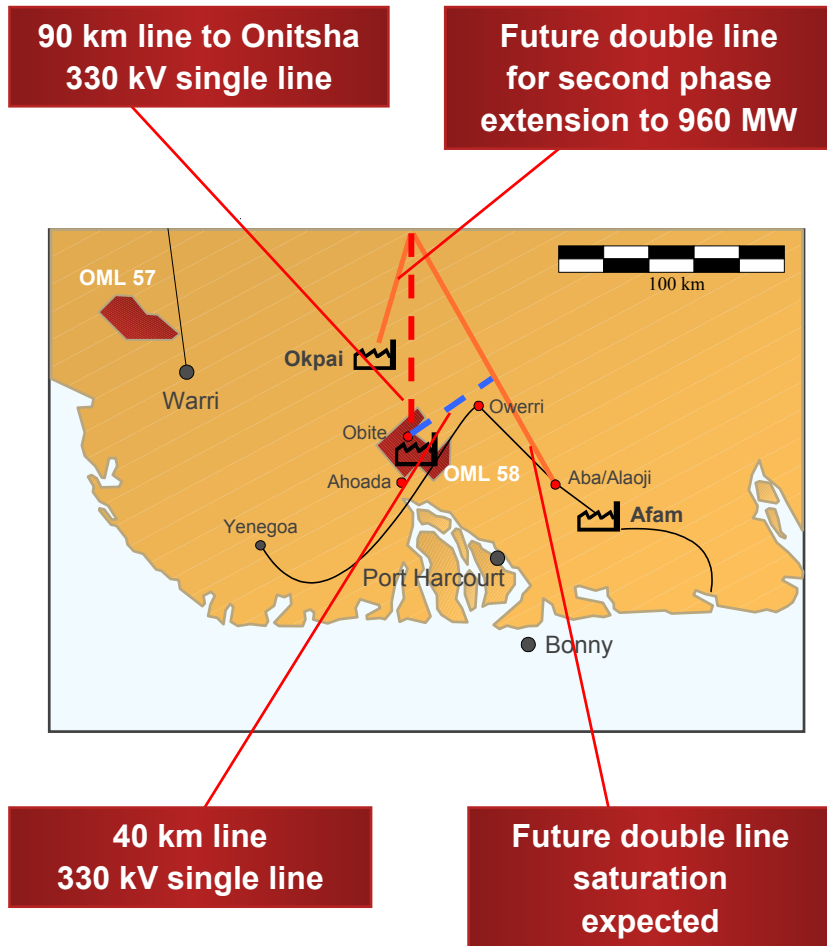
OML 58 upgrade

Existing plants on OML 58



- Total operator, 40%
- Large gas reserves
- Capacity increased from 218 to 335 Mcfd end-2005(e) (debottlenecking)
- Field upgrade project, up to 510 Mcfd
- Pipeline project, to increase transportation capacity to NLNG
- Basic engineering underway
- FID : 2006(e)
- Start-up : 2008(e)

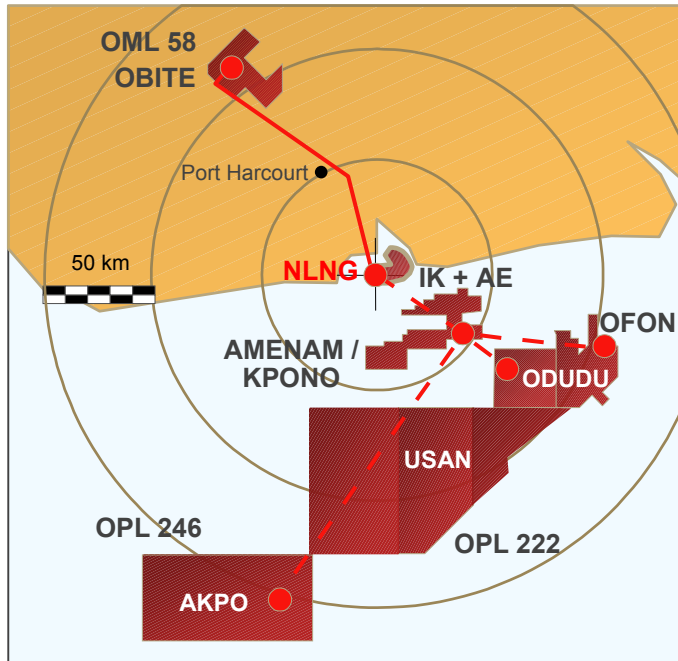
Obite power plant



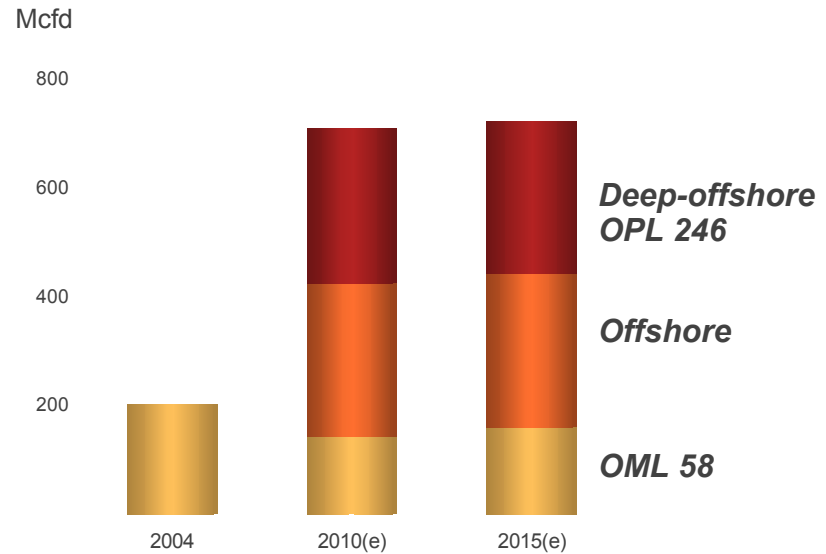
- Power generation priority
- 40% EPNL, 60% NNPC
- Consolidated in JV Oil & Gas activities
- Gas supply from OML 58 : 70 Mcfd
- 440 MW Power Plant (combined cycle)
- Basic engineering launched
- FID : 2006(e)

Total : strong growth of gas supply to NLNG

Gas supply scheme to NLNG



Total-operated gas supply for Trains 1-6



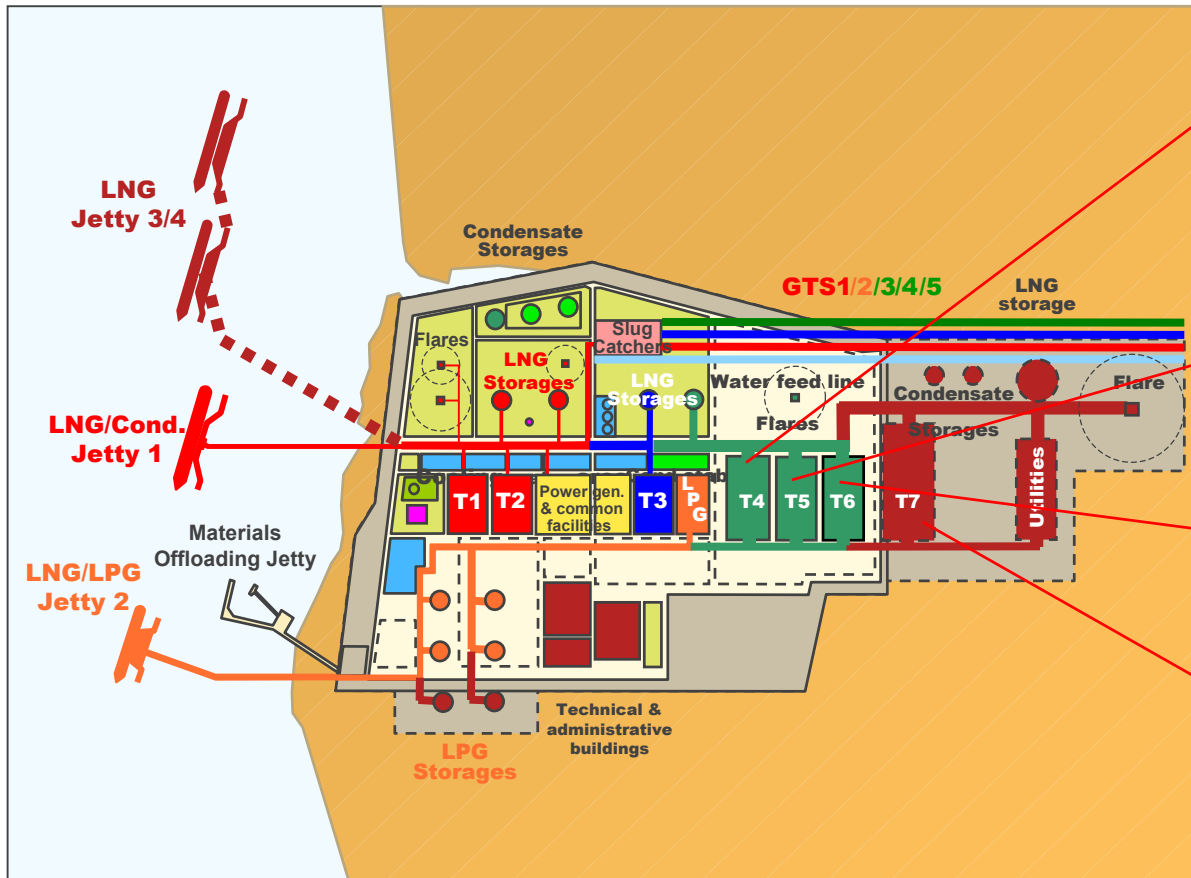
Supply portfolio

- Onshore (OML 58, Obagi / Obite)
- Offshore (Amenam Gas, Ofon)
- Deep-offshore (Akpo)

Train 7 supply to be covered by existing acreage

NLNG : four new trains by 2010(e)

22 Mt/y in 2007(e)



Train 4

4 Mt/y
Start-up : 4Q 2005(e)

Train 5

4 Mt/y
Start-up : 2006(e)

Train 6

4 Mt/y
Start-up : 2007(e)

Train 7

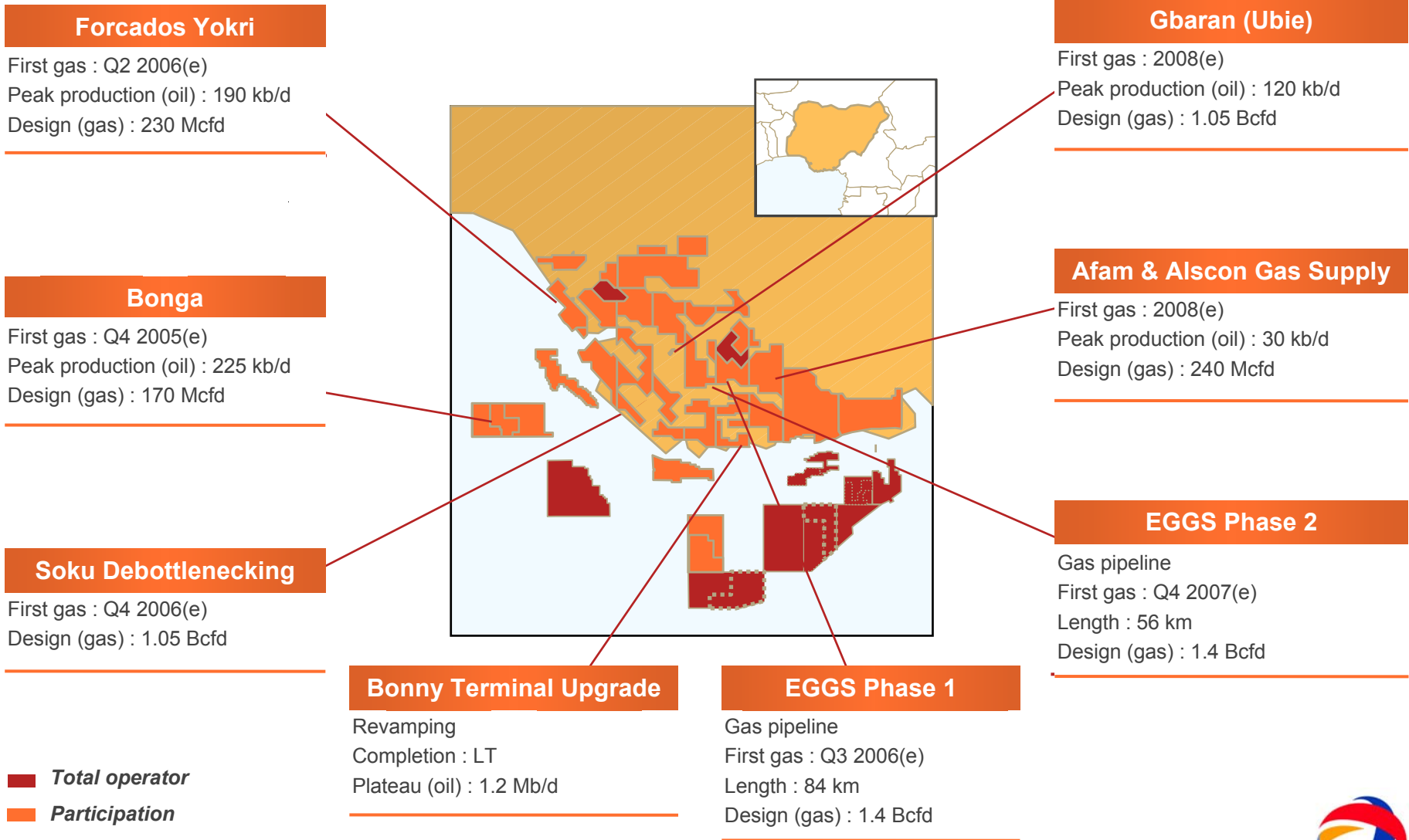
8 Mt/y
FID : 2006(e)
Start-up : 2010(e)

■ 11 customers with 16 Sale & Purchase Agreements

■ 23 dedicated vessels



Wide range of non-operated projects



SPDC (10%) and SNEPCO (Bonga, 12.5%)

