

Pertamina Energy Outlook 2015

“Gas Outlook 2015 - Moving Forward”

By :

Yenny Andayani

Director,

PT Pertamina (Persero)

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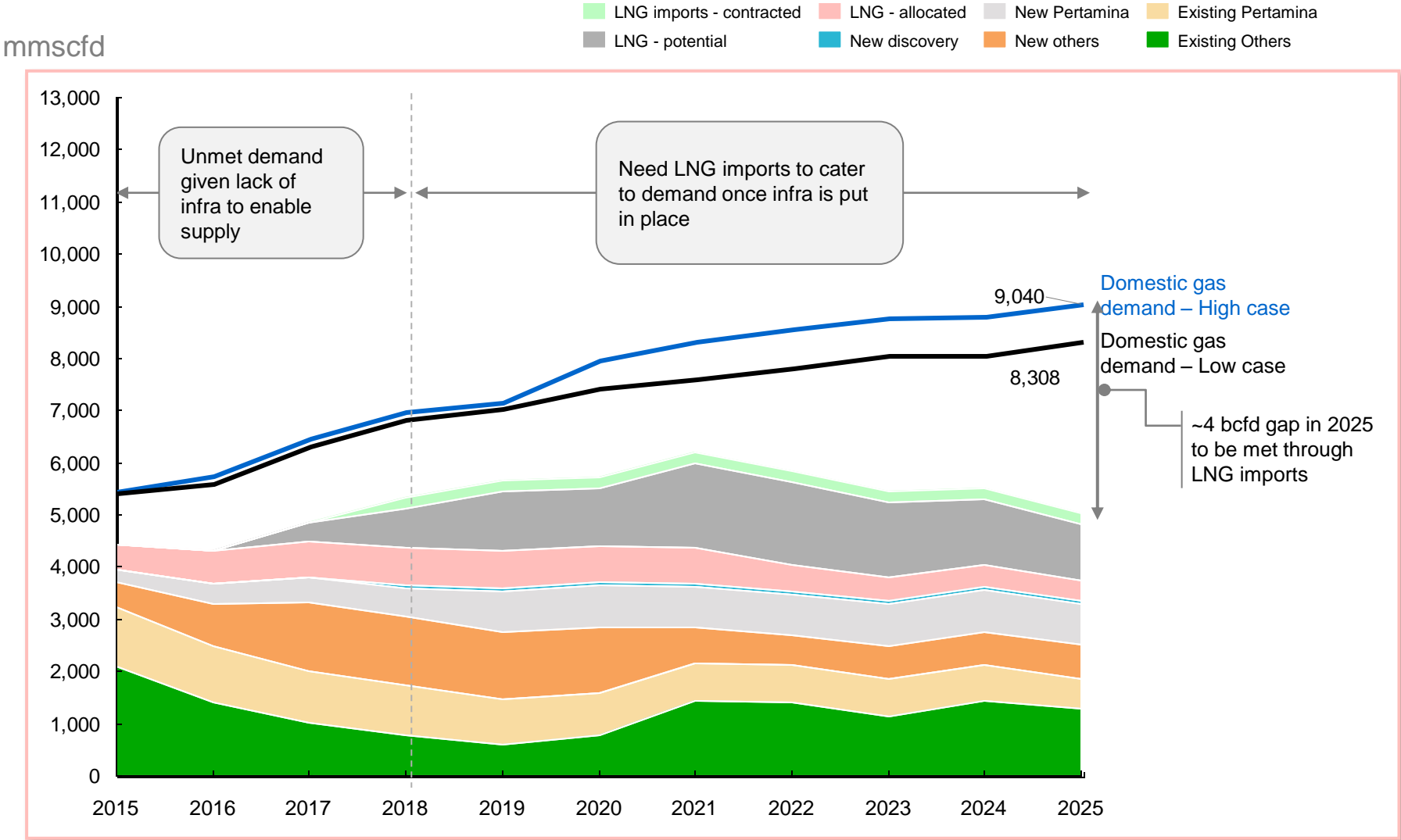
PT Pertamina (Persero)

Jln. Medan Merdeka Timur No.1A Jakarta 10110

Telp (62-21) 381 5111 Fax (62-21) 384 6865

<http://www.pertamina.com>

Perspective of Gas Demand in Indonesia from 2015

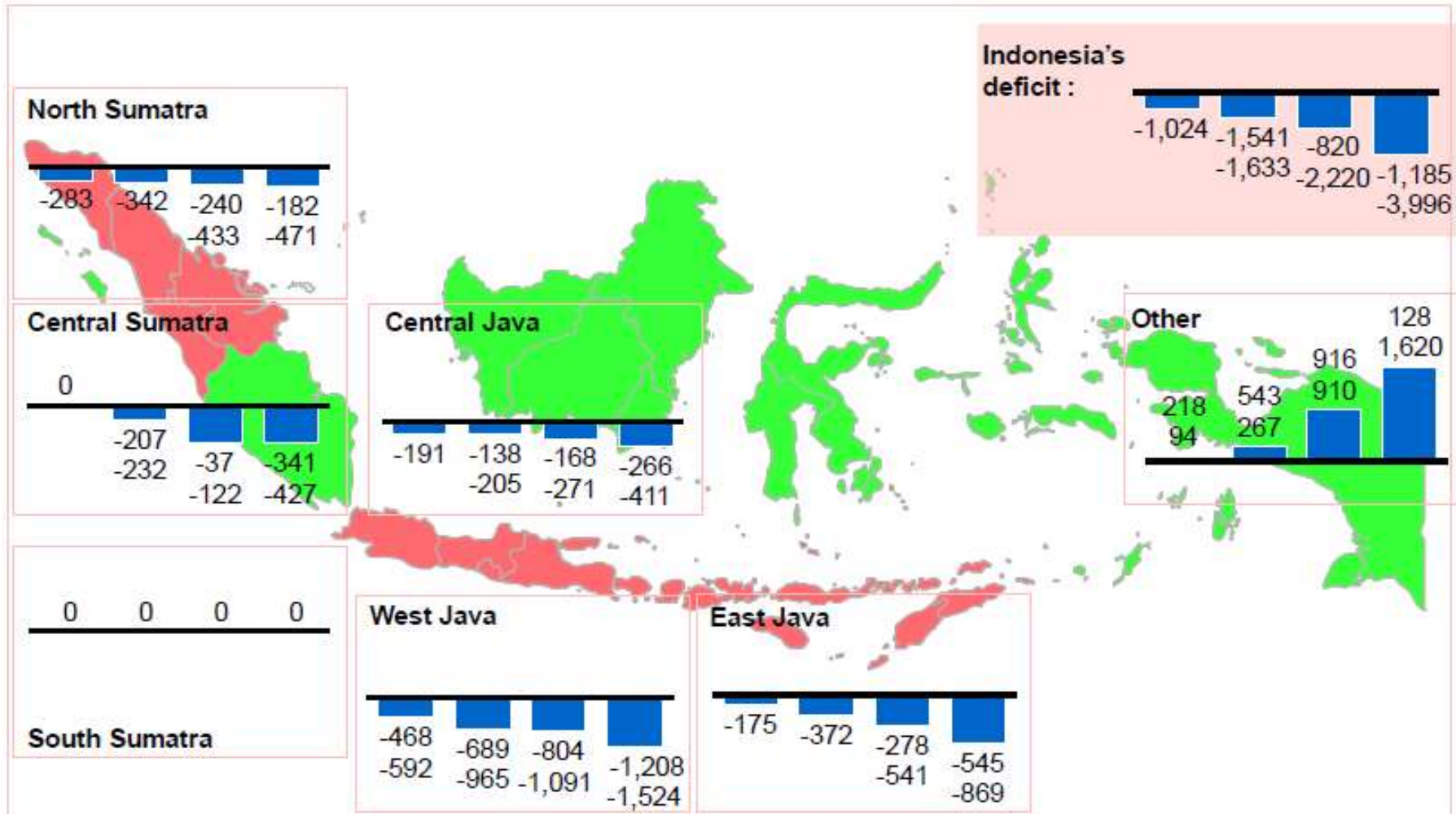


1 Assuming that no estimated technical reserves and new discoveries will convert to production in the future
 2 Assuming LNG imports of ~210mmscfd (1.6 MTPA) from U.S started from 2018
 3 Assuming excess gas supply is not exported and is available for domestic LNG use

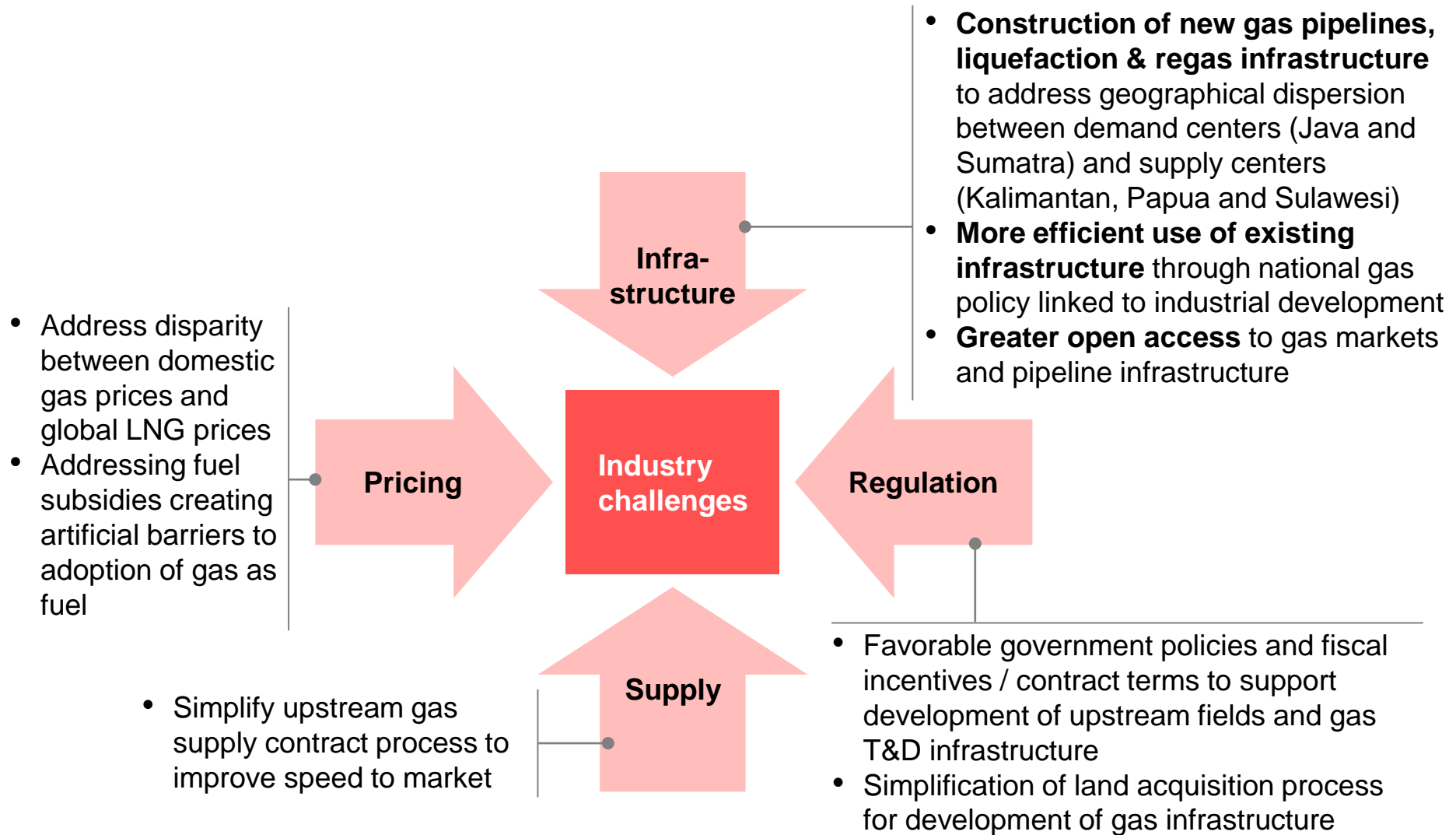


Deficit Gas in Java is Expected to be ~1.9-2.8 bcfd by 2025, with Kalimantan, Papua is Expected to Remain Surplus Regions

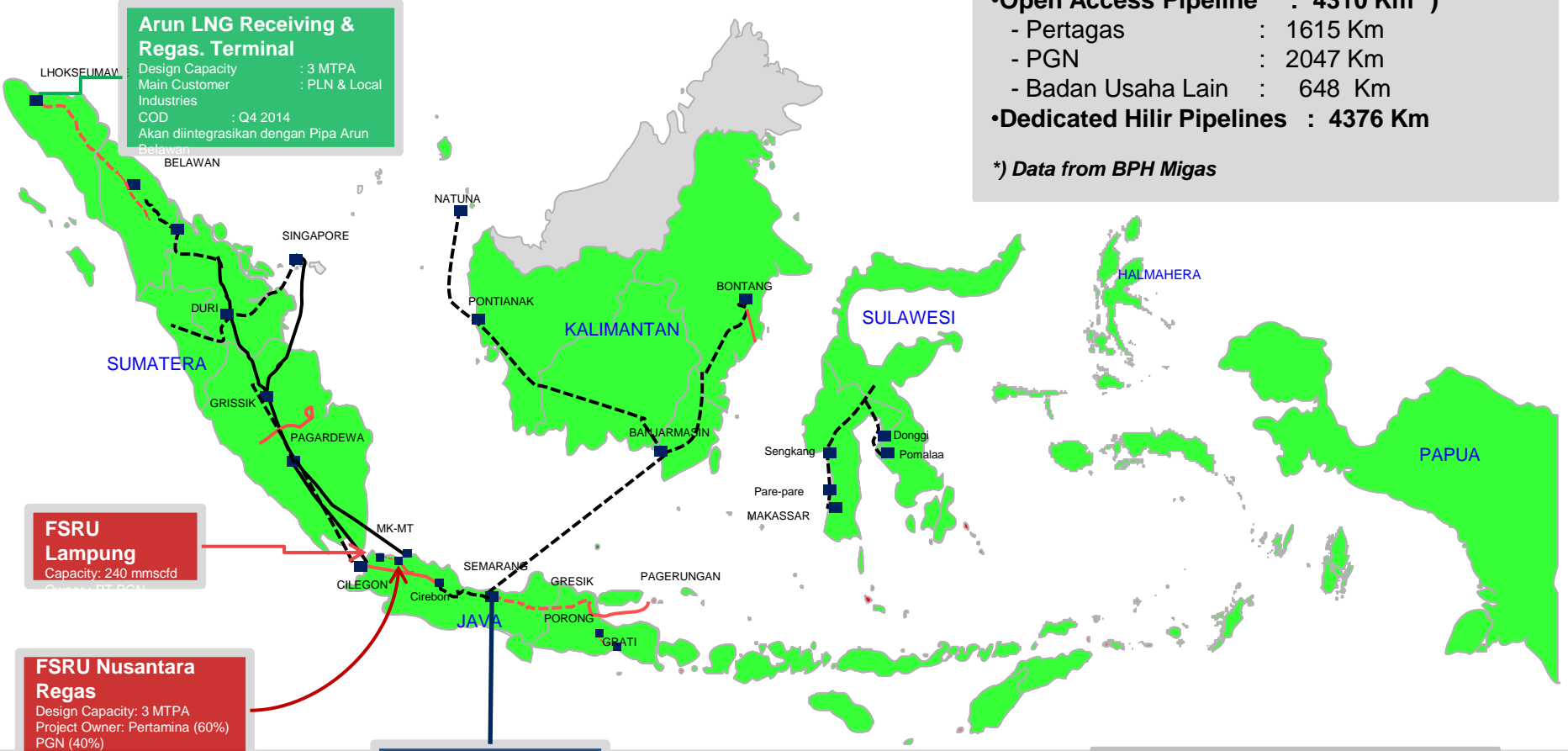
mmscfd



Indonesia will need to address key challenges to bring gas to unmet demand centers



Indonesia Gas Infrastructures Network



Arun LNG Receiving & Regas. Terminal
 Design Capacity : 3 MTPA
 Main Customer : PLN & Local Industries
 COD : Q4 2014
 Akan diintegrasikan dengan Pipa Arun Belawan

FSRU Lampung
 Capacity: 240 mmscfd
 Owner: PT PGN

FSRU Nusantara Regas
 Design Capacity: 3 MTPA
 Project Owner: Pertamina (60%) PGN (40%)
 COD: May 2012

FSRU Semarang & Mini FSRU Cilacap
 Project Owner : Pertamina (100%)

Existing Pipelines:

- **Open Access Pipeline : 4310 Km *)**
 - Pertagas : 1615 Km
 - PGN : 2047 Km
 - Badan Usaha Lain : 648 Km
- **Dedicated Hilir Pipelines : 4376 Km**

**) Data from BPH Migas*

■ Existing ■ Construction
 ■ Planning

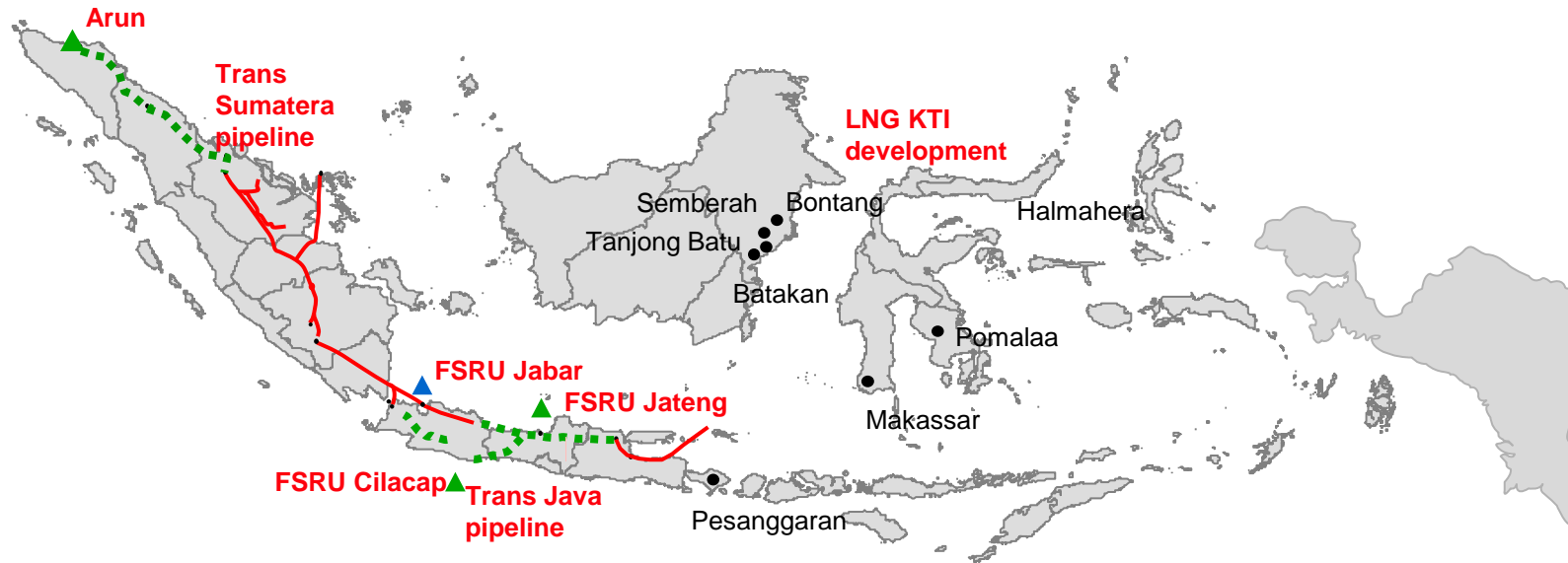
Open Access Transmission Pipelines:

- Existing Pipelines
- - - Planned Pipelines
- Existing Pipelines PERTAGAS
- - - Pipeline PERTAGAS Under Construction

Pertamina is taking the lead in developing Infrastructure covering all major regions in Indonesia to meet growing gas demand

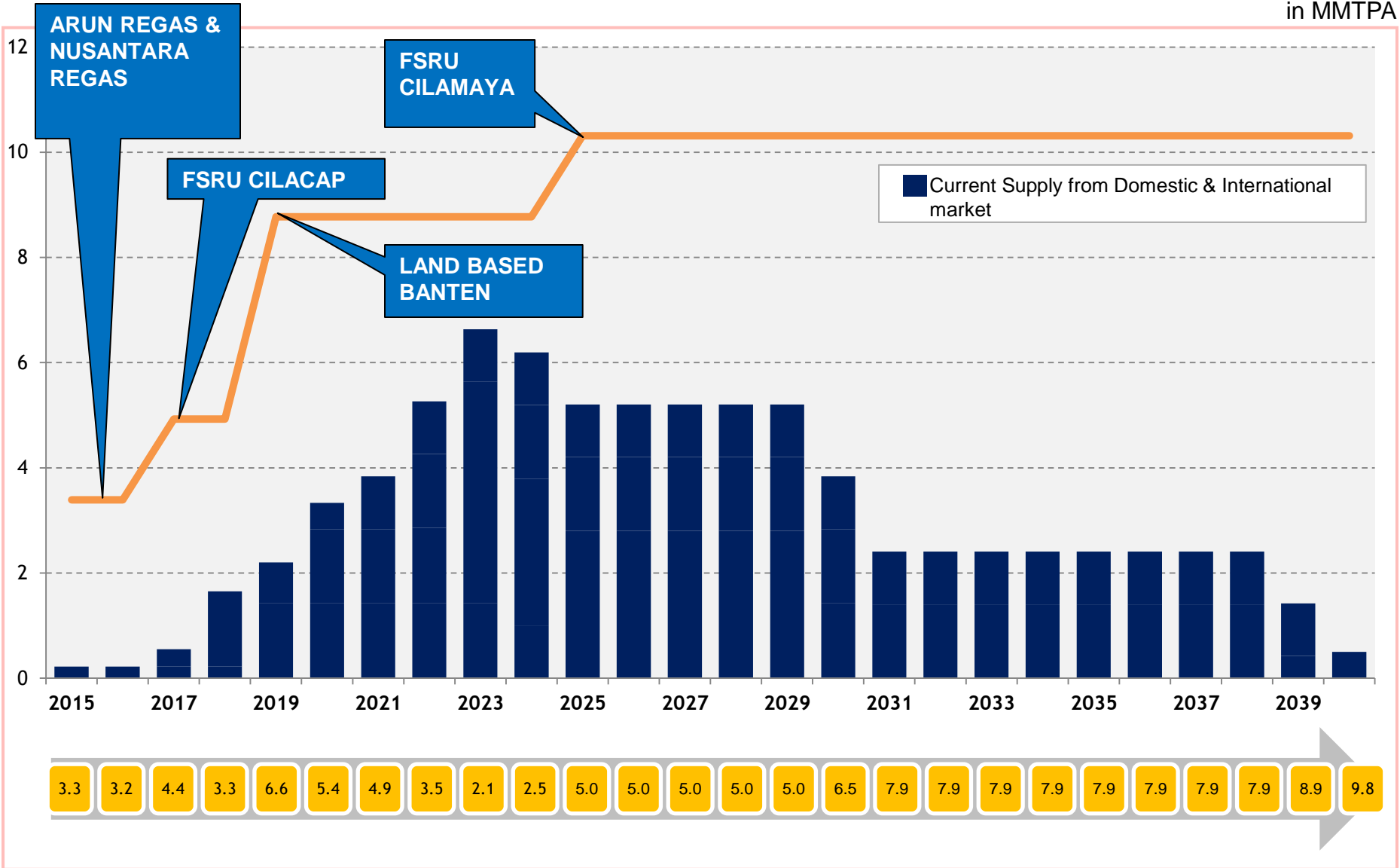
Pipeline, regas, and LNG development

- Existing pipeline
- Planned pipeline
- ▲ Existing FSRU
- ▲ Planned FSRU
- LNG KTI development

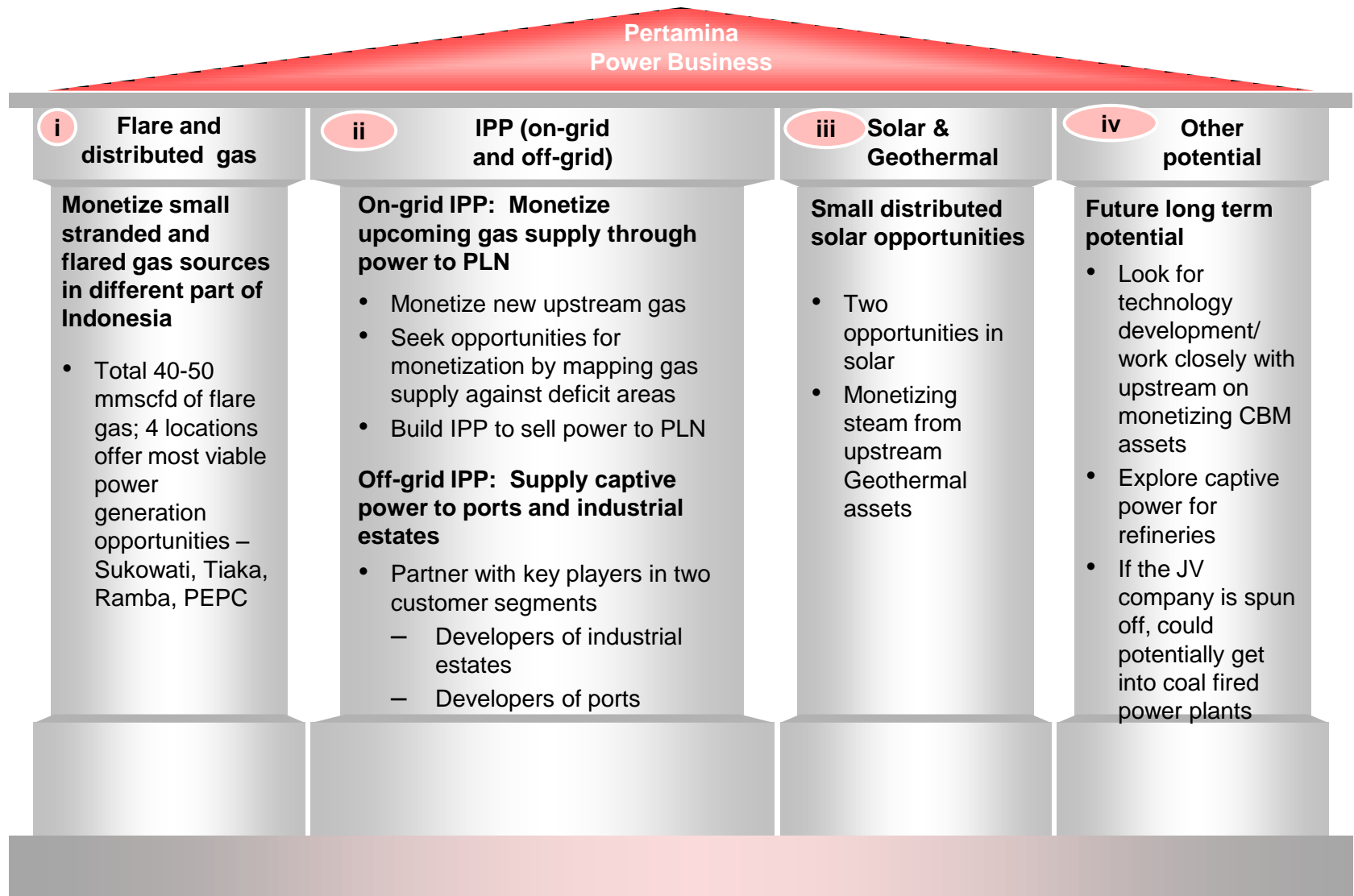


LNG Supply Demand Profile

in MMTPA



Pertamina have defined the strategy to develop a 3.2 GW power business by 2025



Conclusions

- Indonesia is expected to have **up to 4 bcfd of deficit in gas by 2025** (low supply case)

- Based on current plans, **Pertamina will handle more than 13 MT of gas supply** over the next 10 years for domestic markets

- Gas supply will flow from **a portfolio of domestic and international gas assets**

- **Pertamina is securing gas supply**, preferably on long term basis, with flexible terms and conditions

- **Structural challenges** relating to development of gas infrastructure, gas pricing, supply side processes and regulation need to be urgently addressed

- **Pertamina is building substantial gas processing and inter island transport infrastructure** across Indonesia to address infrastructure constraints

Thank You

CONTACT PERTAMINA
500-000

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