

# LNG Liquefaction Plant Development in Tangguh, Indonesia

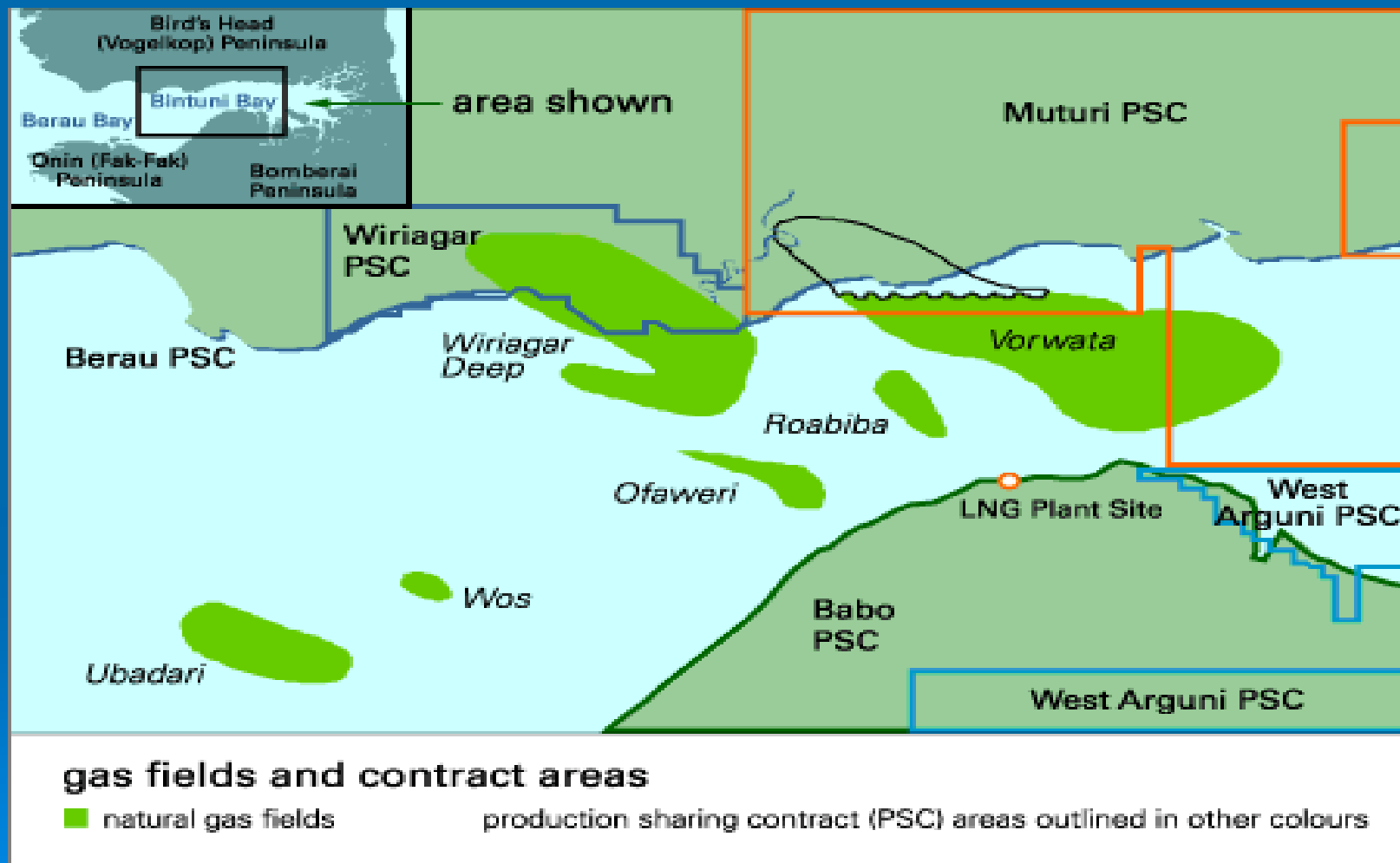
Environmental, Economic, Social  
and Political Impacts



# Map of Indonesia



# Tangguh – Gas Fields & Contract Areas



# Bintuni Bay

- The Bay's ecosystem is unique and has been supporting the life of the Bintuni Bay community for centuries
- LNG plant development threatens to destroy the ability of the Bintuni Bay to provide future natural support systems to the community
- This thus threatens to destroy the very survival of the Bintuni Bay community

# Bintuni Bay

- Home to a 300,000-hectare mangrove ecosystem, the largest remaining mangrove reserve in Southeast Asia and the world's second largest mangrove ecosystem
- Home to 7 tribal groups and various nearby local communities
- Supports shrimp export industry and 3000 households

# Beyond Bintuni Bay

- Issue for Papuan people – spatial and social transformation of northern coastal lands and waters of Papua
- Consequences - Massive land grabs, cutting of remaining mangrove belts, suppression of dissenting voices

# Environmental Impacts

- Noise and light pollution
- Gas emissions including sulfur dioxide, nitrogen dioxide, CO<sub>2</sub>, hydrogen sulfide
- Liquid and solid waste from gas drilling
- LNG processing, vehicles, and shipping
- Solid waste – mercury contaminated activated carbon
- Sanitary waste

# Economic Impacts

- The desire among local people for a massive project with dozens of money-generating spin-offs is uncertain and will come into direct conflict with the need to limit its environmental impact in this important and fragile mangrove ecosystem
- Fisher folk income has decreased as a result of seismic activities
- Initial \$2 bill development phase and living quarters for plant's 500+ workforce, occupying 600 ha on the shores of Bintuni Bay

# Security Implications

- Fear that more human rights violations will occur at the hands of the military (TNI) and the police (BRIMOB).
- Military clearly wants a contract with BP. If the project is an object of national economic interest, which it is, under law it means the projects must be protected by TNI and thus the military will assert its presence in the area
- Any disruption at Tangguh will not be tolerated in order to assure potential buyers that supplies will be secured

# Social Impacts

- Women do crab fishing, thus depend on mangroves
- Crab fishing provides family income and main dietary source of protein
- LNG plant development affects reproductive capacity of key animal species
- Will plant revenues benefit and seep into Indonesian communities and economy? Will plant development increase Indonesian job security?

# Resources and Sites on Tanggung Project

- JATAM – Environmental NGO [www.jatam.org](http://www.jatam.org)
- Far Eastern Economic Review – Jon McBeth
- Jakarta Post
- BP Indonesia Career Center  
[http://www.bpfutures.com/indonesia/abp\\_tanggung.asp](http://www.bpfutures.com/indonesia/abp_tanggung.asp)

# Location Map of Tangguh

