Bangchak for Technological Strategy and Deployment

Japan Cooperation Center, Petroleum (JCCP)

28 Jan 2016







1. Introduction to Bangchak Petroleum PLC

2. Bangchak Technological Strategy





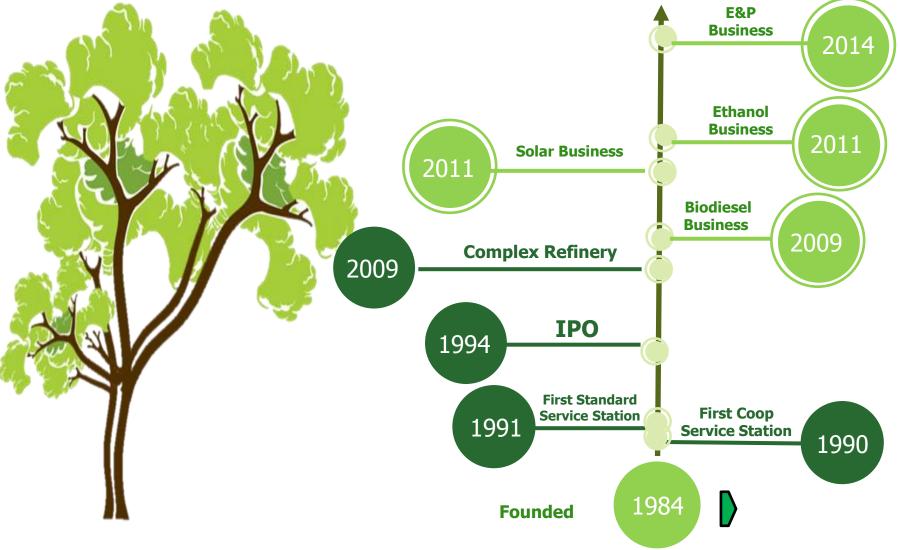
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30 Years of Bangchak Petroleum PLC

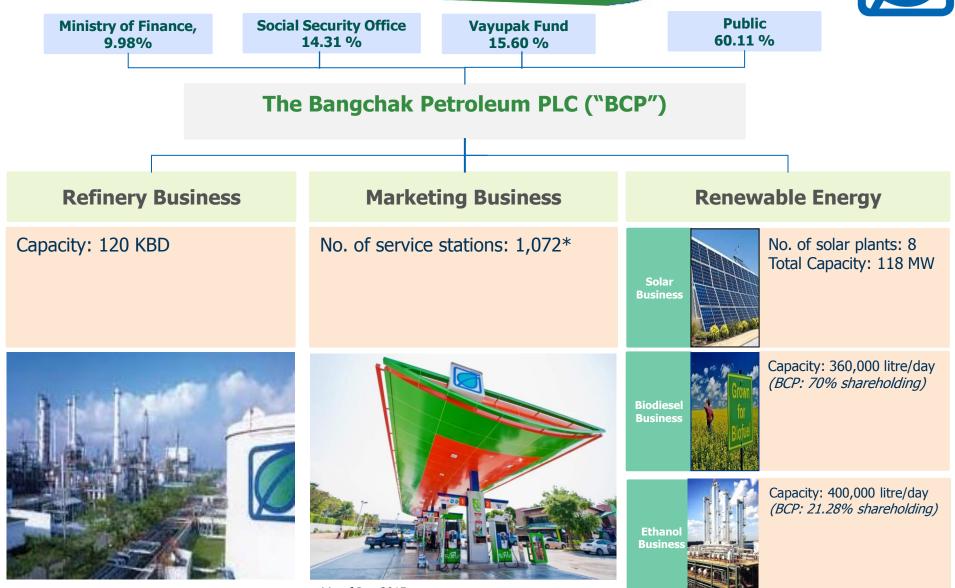
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Company Overview / Business Model





*As of Dec 2015

Agenda

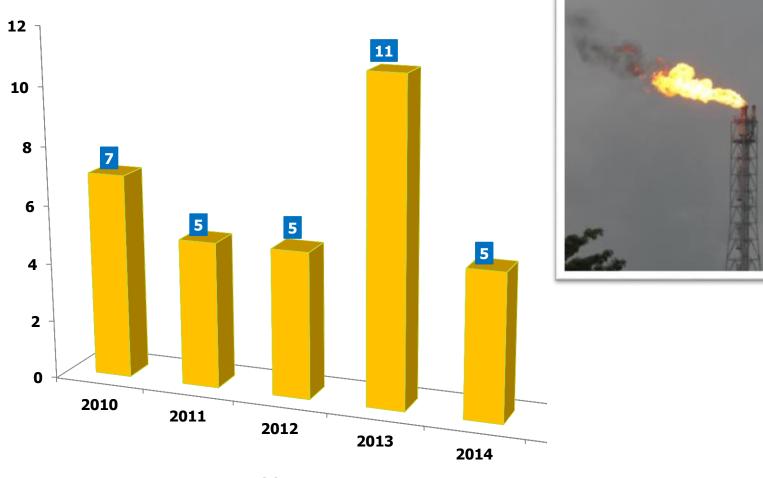
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Process Unit Unplanned Shutdown



Number of Shutdown



Year

Bangchak Strategy for Sustainability







Process Safety Management & Asset Integrity Management

Prevent MAH

(major accident hazard)

Process Safety Management

Asset Integrity Management

The <u>prevention</u> of unplanned & uncontrolled loss of containment from plant and process equipment that might cause harm to people or the environment.

Developed from Standards : OSHA 1910 (Occupational Safety and Health Administration) USA The <u>assurance</u> of plant & equipment as fit for purpose by establishing competent people, effective systems and dependable assets.

Developed from Standards : BSI /PAS 55 (Publicly Available Publication : Published by the British Standards Institution) + MI (PSM)

Technological Management



PSM : Process Safety Management (14 Elements)

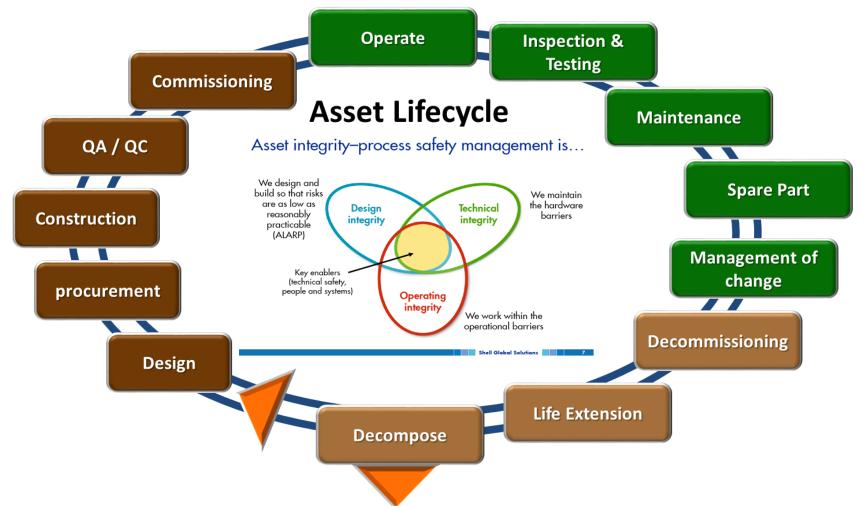
" Preventing or minimizing the consequence of (catastrophic) release of toxic, reactive, flammable or explosive chemicals. These release may result in toxic, fire or flammable hazards."



Technological Management

AIM : Asset Integrity Management

" The ability of an asset to perform its required function effectively and efficiently while protecting health, safety environment, and asset"



Technological Management

Example of Activities Implemented



- To appropriate inspection planning of each equipment

Agenda

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Technological Deployment Start with Leaders ...









○ Everyone Goes Home Safely Everyday



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Environment and Asset are Protected



Efficient and Reliable Operations

Technological Deployment Build Driving Team ...











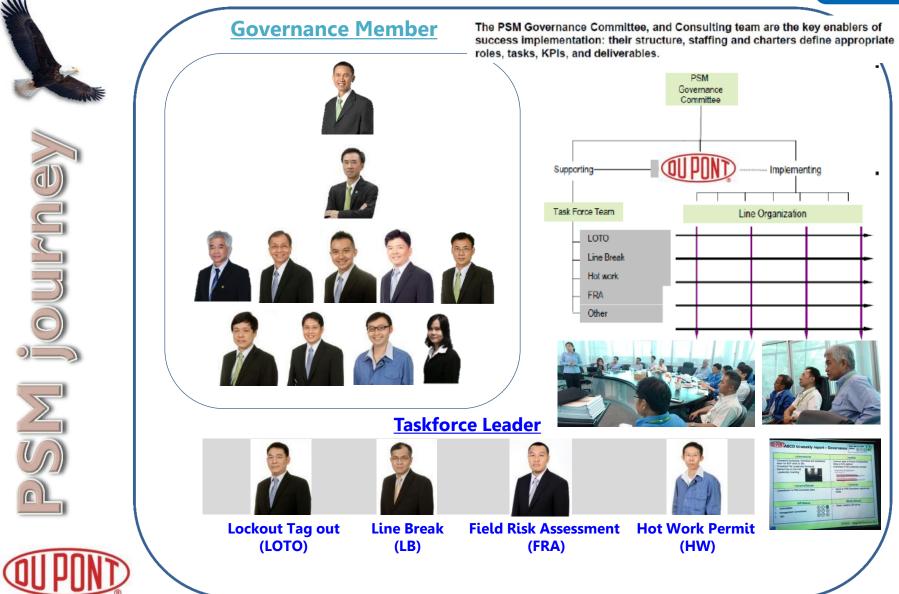


Felt Leadership Workshop



Technological Deployment Set Up Taskforce ...





Technological Deployment Employee participation...











Governance Line Walk





Technological Deployment Promotion and Recognition...









New Jacket "Everyone Goes Home Safely Everyday"



Eagle One Project





Safety Journey "Flying Together"



- > No Major Incident
- No Unplanned Shutdown
- Employee Engagement
- Community Engagement
- > Market EBITDA : Actual > Target



