

Energy Emergency Response of Thailand

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Energy Emergency Incidents in the past

Energy Emergency Response Exercise

Lesson Learn & Next Step



Energy Emergency Incident 2008 - 2013

Total 58 times Most of them are "Supply Side = Natural Gas"

Electricity generating system 17 Times

Fuel Supply system 22 Times

Electricity Transmission System 10 Times

Equipment 9 Times



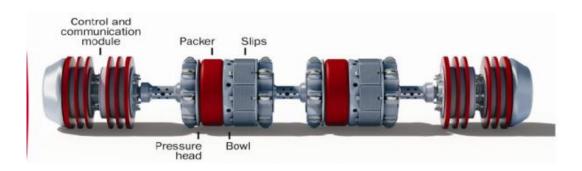
There have been no "brownouts" or "blackouts"



Energy Emergency Response Exercise

1st : 18 Febuary 2010

- Venue & Participant : Ministry of Energy / 50 participants
- Scenario: Based on actual incident
 - Shut down of the Yadana field due to scheduled maintenance
- Approach The use of Smart plug that reduced the shutdown period by 6 days
- Incident management : Test with PTT and EGAT





Energy Emergency Response Exercise

2nd : **10 September 2010**

- Venue and Participant : EGAT HQ / 500 participants
- Scenario :
 - Loss of natural gas supply of the Gulf of Thailand
 - Accident that causes of additional gas supply loss

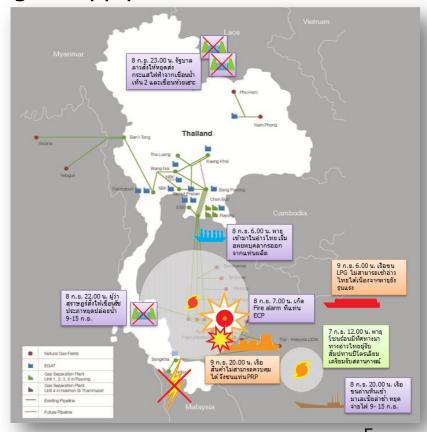
Approach

Demand Side

- ✓ Increase generation of the coal fired power plant
- ✓ Increase generation of standby generators
- ✓ Reduce the voltage frequency

Supply Side

- ✓ Reduce electricity consumption from large building and factories
- ✓ Reduce electricity consumption from public sectors





Energy Emergency Response Exercise

3rd: 4 April 2012

- Venue and Participant : Ministry of Energy / 300 participants
- Scenario
 - The technical failure of natural gas producing system
 - Strait of Hormuz incident
 - Shut down of Myanmar and Gulf of Thailand field.
 - The explosion of natural gas pipeline

Approach

Demand Side

- ✓ Relocation of Electricity load
- √ Campaign on energy conservation
- ✓ Cooperation with the industry sector to reduce electricity's demand

Supply Side

- ✓ Restriction of oil export
- ✓ Increase the Gulf of Thailand production
- ✓ Postponement the scheduled maintenance of power plant and natural gas field
- ✓ Releasing oil stock





Energy Emergency Exercise

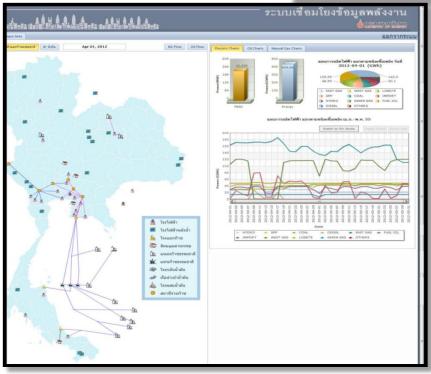
3rd: 4 April 2012











กระทรวงพลังงาน MINISTRY OF ENERGY

Energy Emergency Exercise

4th: 13 March 2013

- Venue and Participant: Ministry of Energy / 300 participants
- Scenario
 - Shut down of the Yadana field due to scheduled maintenance
 - Technical problem of gas production in major gas fields in the Gulf of Thailand
 - Technical problem of power plant causing shutdown

Approach

Demand Side

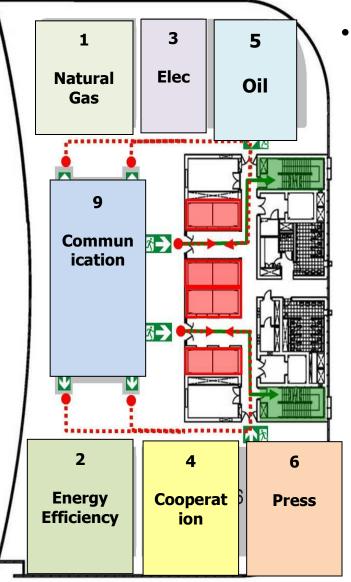
- ✓ Cooperation with the industry sector to reduce electricity' emand
- ✓ Increase generation of standby generators

Supply Side

- ✓ Logistical management of oil to power plants
- ✓ Increase the electricity generation of power plants







Communication Strategy System

- ✓ The conference connecting between
 "Room to Room" and "MoEN to PTT,
 EGAT and Regional offices"
- ✓ The communication between MoEN and public









Next Step + Lesson Learn

1. The structure and command

- NESO
- Line of Command

2. Communication

- One message
- Timely communication
- Through the people

4. Type of fuel switching

- ⇒ Gas dependency
- ⇒ Spec of power plant capacity
- ⇒ Oil or gas pipeline

3. Law

- The legal restriction: Environmental 's permission, Transportations permission
- The contractual agreement

5. The technology

- Hardware
- Software



Thank You

สถานการณ์วิกฤติในประเทศไทย

วิกฤติไฟฟ้าดับที่เกาะสมุย-พะงัน จ.สุราษฎร์ธานี ปี 2555





อุบัติเหตุ

สายเคเบิลใต้ดินระเบิด 4 ธ.ค. 55

ไฟฟ้าบนเกาะดับกว่า 58 ชั่วโมง ผวจ. ออกประกาศให้พื้นที่ทั้งสองเกาะเป็น "พื้นที่ประสบภัยพิบัติฉุกเฉิน"

