



- 1. Outline of environmental considerations
- 2. PSPP: What have we been doing?
- 3. Results
- 4. What do we need to do in the next stage?
- 5. Recommendations













 Development may cause significant negative impacts on social and natural environments.

 These impacts should be avoided and mitigated as much as possible.







Environmental considerations on power development (4/4)

CO₂ Emissions: Global warming

LARGE

Coal-fired thermal > gas-fired thermal > hydropower = PSPP <u>SMALL</u>

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2. PSPP: What have we been doing?

- First field survey (January March) 38 candidates → 4 candidates
- Second field survey (May June)
 4 candidates: a detailed assessment

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3. Results Important points for PSPP development

- Phu Yen East (JN3)
- Bac Ai (JS6)
- Important points





















Recommendations (2/3)

- 1. Power Development
- Global warming and power development scenario
- Realistic power development scenario
- Requisite minimum development and DSM

Recommendations (3/3)

- 2. Implementation of EIA
- Lessons learned from the past cases
- Utilization of various references
- Allocation of enough resources
- Collaboration with other ministries and agencies

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1. DSM	in Vie ase-I	etnan I]	n
Program Name	Peak Cut (MW)	Energy Saving (GWh)	Note
TOU Metering	70	-	5,600 TOU meters
Pilot DLC Program	3	-	DLC for 2,000 users
CFL Program	33	39	Sales of 1 mil. CFL
FTL Program	14	25	Use of efficient FTL
Tota	l 120	64	

2. 0	SM in Thai [Major Prog	land grams]
Туре	Program	Note
	E.E. fluorescent	Voluntary agreement & campaign
Residential E.	E.E. Fridge/AC	Efficiency labeling
	Nutritious Brown Rice	Energy savings in milling process
	Energy Storage	Thermal energy storage system
Commercial	nmercial Green Leaf Energy efficiency	Energy efficiency ranking
	Energy Consultant	
	Factory Consultant	 Energy efficiency consulting by EGAT
Industrial	High Efficiency Motor	Promotion of efficient motor
	ESCO Project 4 pilot projects	4 pilot projects

2. DSM in Thailand [Achievements]					
Item	Initial Target (1993-1997)	Modified Target (1993-1997)	Achievement @ June 2000		
Peak Demand Saving	238 MW	700 MW	755 MW		
Energy Demand Saving	1,427 GWh	3,403 GWh	3,610 GWh		
Investment	6,000 mil. Baht	6,000 mil. Baht	1,814 mil. Baht		



4. DSM in Philippines [Major Programs]

- Energy Management Service
- Information and Education Campaign
- Government Enercon Program
- Efficiency/Energy Labeling & Standard

5. [5. DSM in Japan [Major Programs]					
Category	E.E. equipment	Contract options (LAC)				
Peak-shift	 Thermal storage AC Thermal storage tank Financial incentive 	 Annual load adjustment Thermal storage load adjustment Load management 				
Peak-cut		Interruptible contract				
Bottom-up	 Electric water heater Thermal storage floor heaters 	 Night-only service 				
		10)			











> Installation of Coal TPPs in the Southern Power System







