



# Current Condition of Implementation of Energy Efficiency Labeling in Indonesia

**Dr Edi Hilmawan**

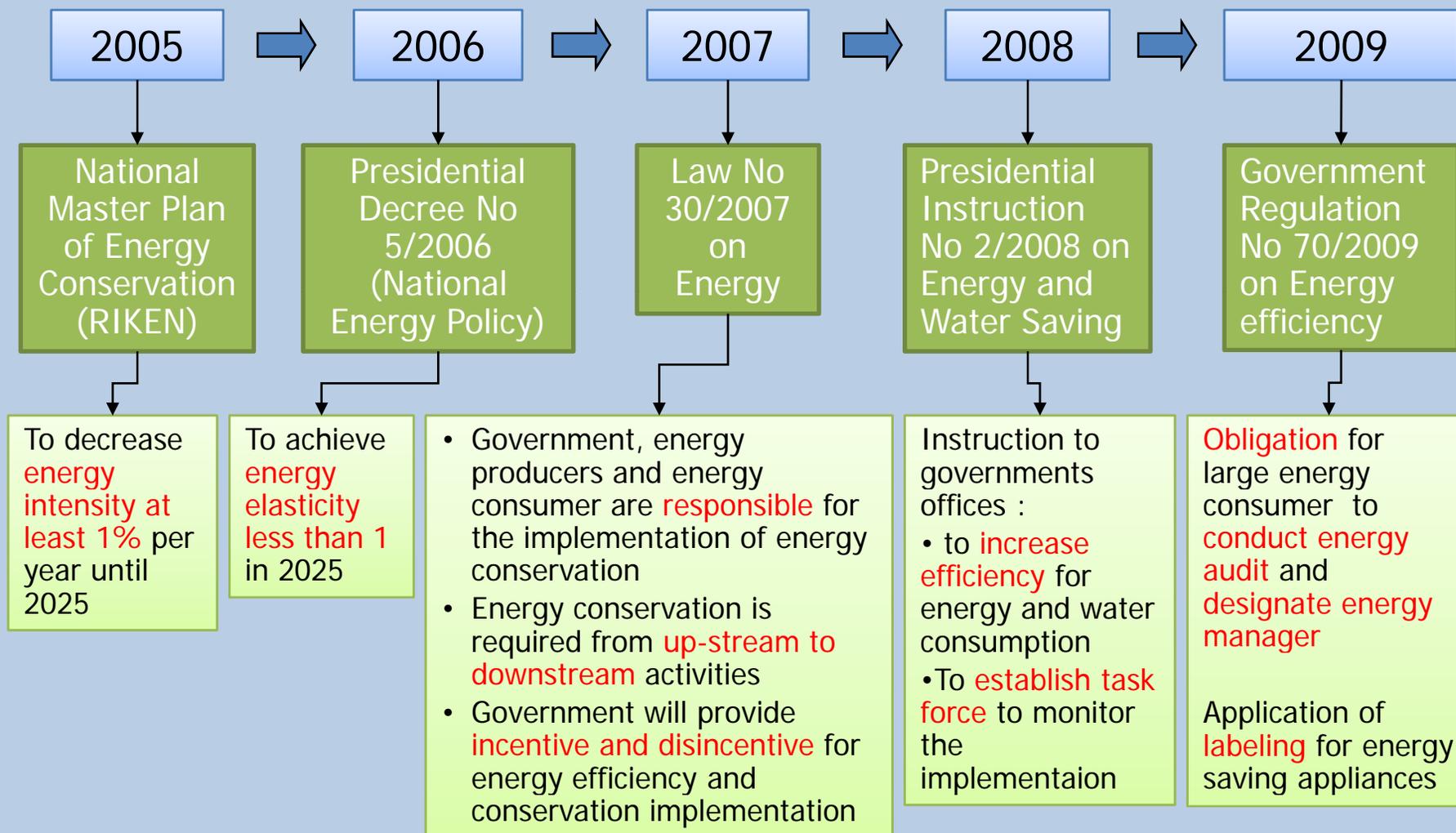
Energy Technology Laboratory, Agency for the Assessment and Application of Technology

Shinagawa Prince Hotel, March 5, 2010



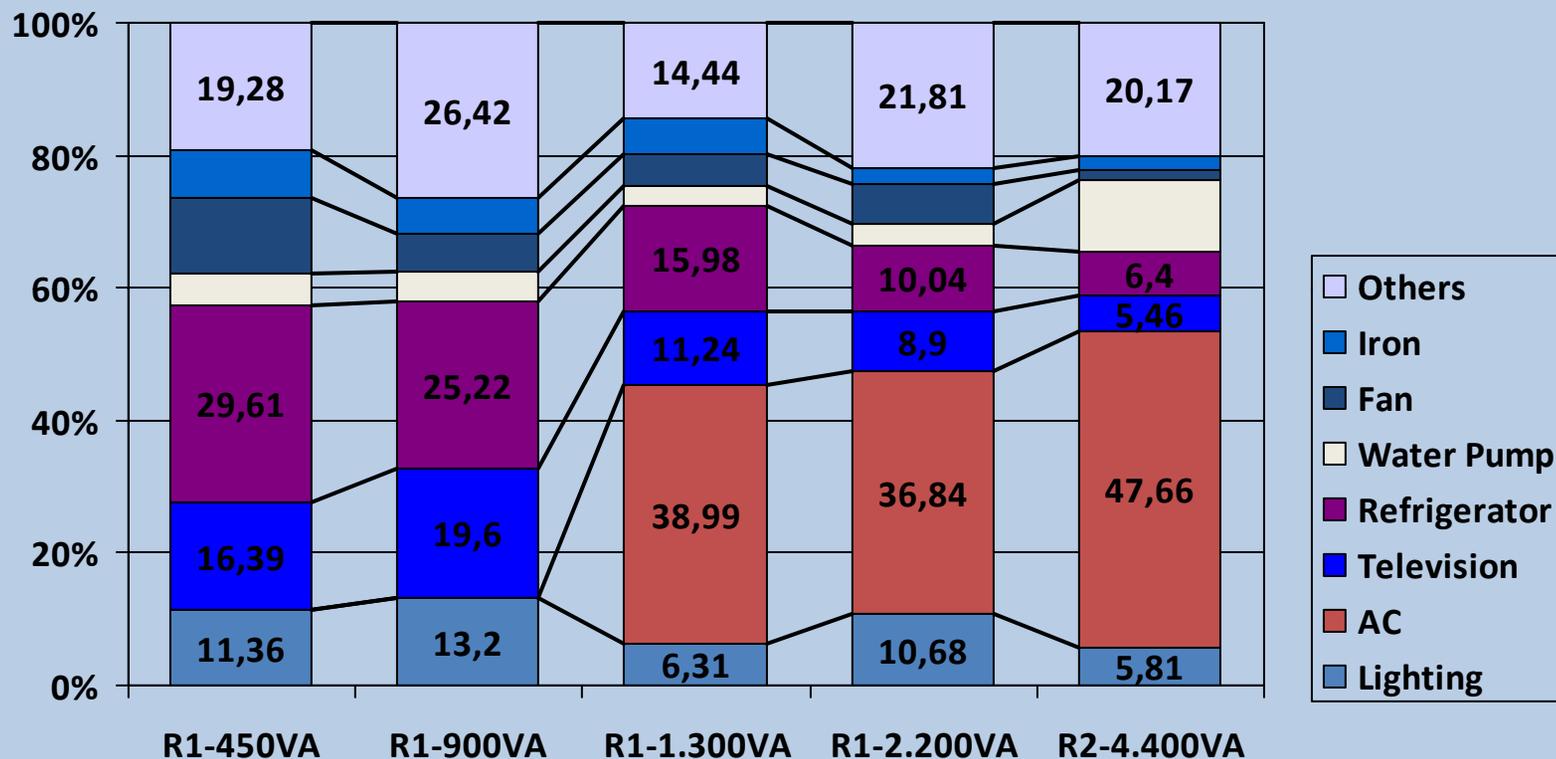
## National Energy Policy

# Energy Conservation Policy and Regulation





## Typical Electric Power Consumption in Residential Users

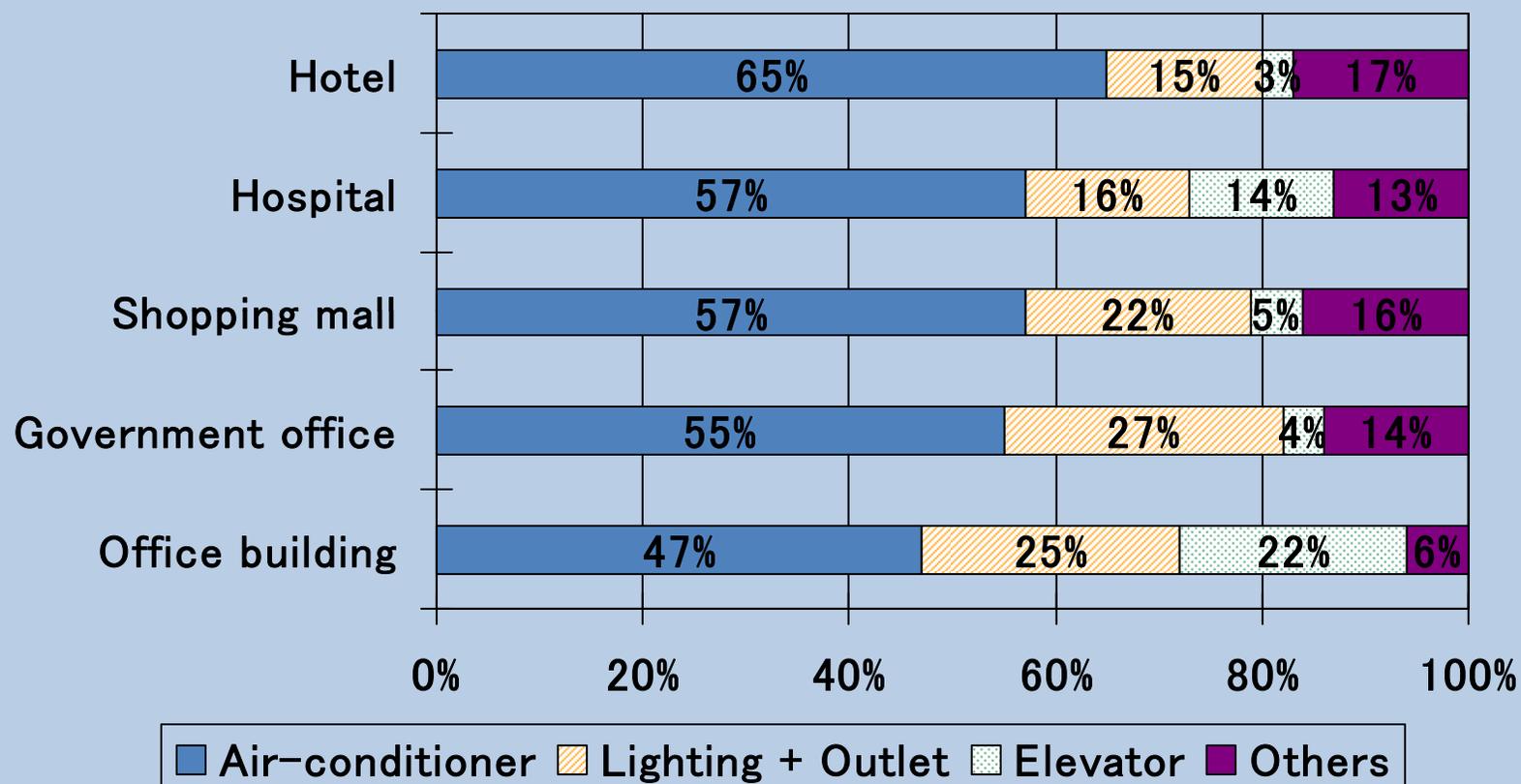


More than 50% of electric power consumption in Residential users is for Refrigerator, Television, AC and Lighting

JICA Study (2008)



## Typical Electric Power Consumption in Commercial Building



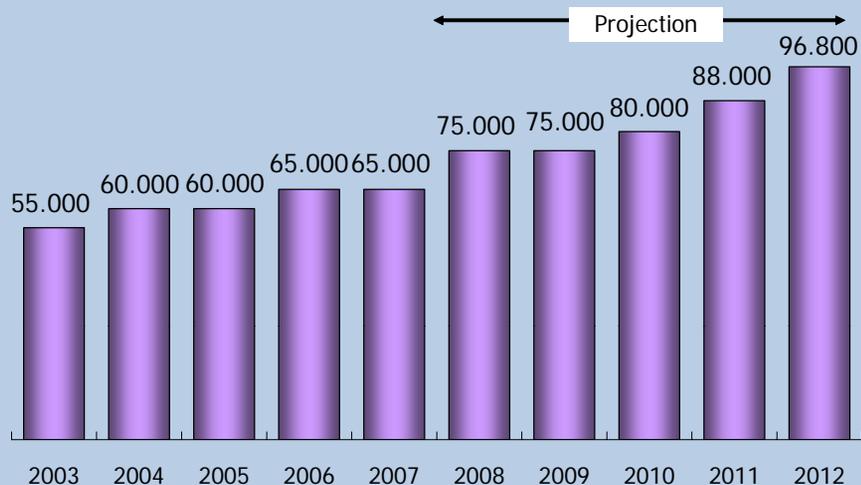
Most of electricity is consumed in air-conditioner and lighting.

*JICA Study (2008)*

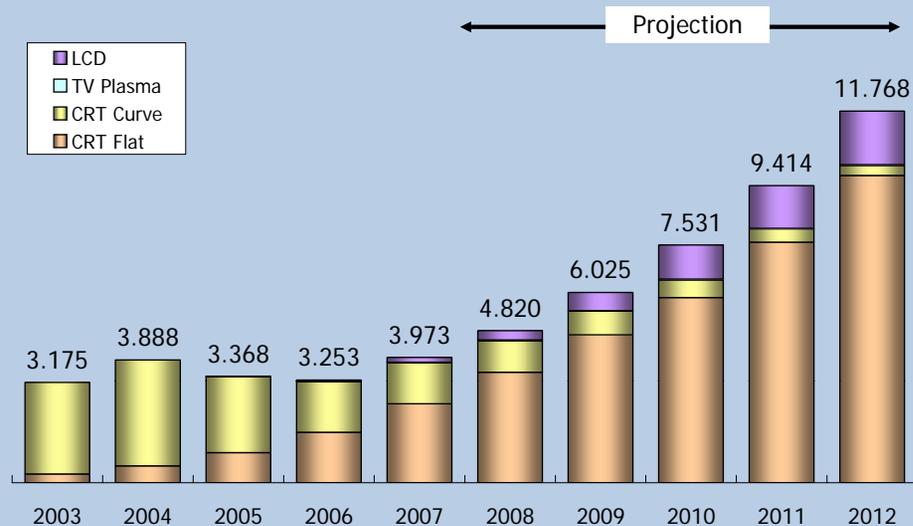


# Annual Sales of Home Appliances

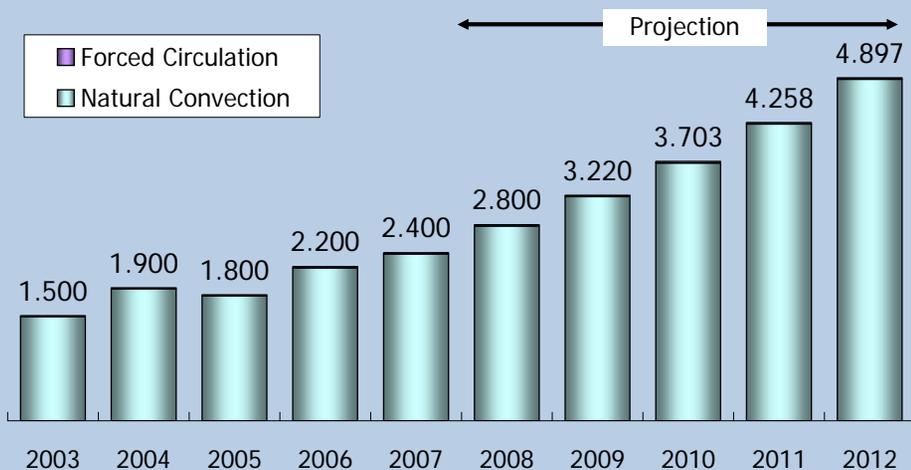
**ANNUAL SALES OF LAMPS**  
(Thousand Units)



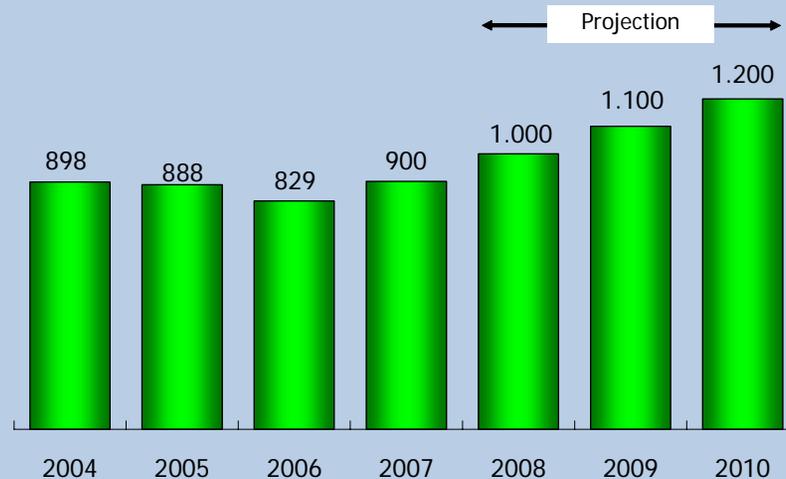
**ANNUAL SALES OF TELEVISION**  
(Thousand Units)



**ANNUAL SALES OF REFRIGERATORS**  
(Thousand Units)



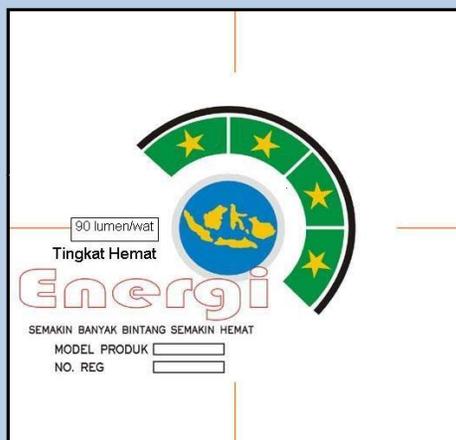
**ANNUAL SALES OF AC**  
(Thousand Units)





## Regulation on Energy Efficiency Labeling

### SNI 04-6958-2003 (Standard of Energy Saving Level Label for Electrical Household Appliances and it Kinds)



- To identify energy saving level for electrical household appliances and it kinds
- The standard includes :
  - form, size, color and symbol significance of the energy saving level label,
  - Location for the energy saving level label,
  - criteria of energy saving level,
  - energy saving level score and amount of star
- Reference :
  - Australia Standard AS 2575.1-1989
  - New Zealand Standard NZS 6205.1-1989

#### Director General EEU Decree No. 238-12/47/600.5/2003

on the Procedure for Attachment of Energy Efficiency Label

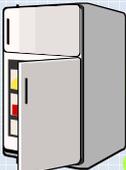
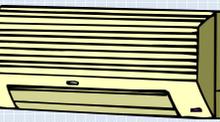
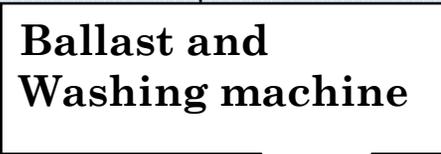
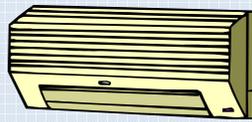
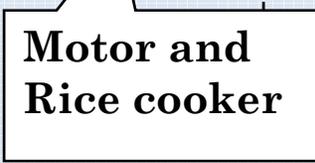
#### Director General EEU Decree No. 94-14/47/600.4/2006

on the Appointment of Product Certification Body (LSPro) and Testing Laboratory for the Attachment of Energy Efficiency Label in Electricity Used Equipments





# Road Map of the Labeling Program

	2008	2009	2010	2011	2012
Label application	 CFL	 	 AC and Fan	 Ballast and Washing machine	
		 TV and Refrigerator		 Motor and Rice cooker	
Mandatory or Voluntary	V	V	?	?	?



## Progress on Energy Efficiency Labeling for Each Appliances

No.	Appliances	SNI*		Technical Regulation	Energy Efficiency Labeling		
		Safety	Performance		Testing Procedure	Energy Efficiency Criteria	Certification and Labeling
1	CFL	O	O	O	O	O	(2010)
2	Fan	O	X	O	(2010)	(2010)	X
3	Television	O	(2010)	(2010)	O	O	X
4	Refrigerator	O	O	(2011)	O	(2010)	X
5	AC	O	(2010)	(2011)	O	O	X
6	Electronic Ballast	O	O	O	X	X	X
7	Iron	O	O	(2010)	X	X	X
8	Washing Machine	O	O	(2012)	X	X	X
9	Rice Cooker	O	X	(2011)	X	X	X
10	Electric Motor	O	(2011)	(2011)	X	X	X
11	Pumps	O	(2011)	(2010)	X	X	X

\*SNI: Standard Nasional Indonesia, (Indonesian National Standard)



## Consideration in Choosing Equipments (AC, CFL, Fan)

### AC

No	Consideration	F
1	Energy Consumption	24
2	Price	20
3	Brand	11
4	Warranty	11
5	Durability	4
6	Model (Color, Size, Shape)	2
7	Others	2
8	Function	1
9	Capacity	
10	Installation	

### Lamp

No	Consideration	F
1	Price	33
2	Brand	16
3	Energy Consumption	16
4	Capacity	11
5	Function	11
6	Durability	7
7	Model	3
8	Warranty	1
9	Installation	1
10	Others	1

### Fan

No	Consideration	F
1	Brand	30
2	Warranty	30
3	Size	30
4	Price	15
5	Model	6
6	Energy Consumption	6
7	Function	2
8	Capacity	1
9	Durability	
10		

2003, Market Survey by Indonesia University



# Barriers on Implementation of Energy Efficiency Labeling in Indonesia

- **Policy Aspect**

- Energy Law no 30/2007: “Insentif and disinsentif for energy conservation activities”
  - Insentif and disinsentif scheme is not yet established
- Government Regulation No 70/2009: “.. Obligation to label energy saving equipment”
  - No Guideline to implement the regulation
- Energy price policy

- **Technical Aspect**

- Non-standardized testing methodology and procedures
- Limited number of Testing Laboratories
- Limiter number of engineer/technician having sufficient testing capabilities

- **Institution Aspect**

- Lack of coordination between Government Institutions
- Lack of support from Industrial Association

- **Socio-Economic Aspect**

- Low People Awareness on Energy Saving
- Price is the most consideration in choosing equipments



# TERIMA KASIH

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