Standard Offer Program

For residential and small business/industry

(SOP)

Assoc. Prof.Dr.Apichit Therdyothin

King Mongkut's University of Technology Thonburi (KMUTT)

Topics

1. OBJECTIVES
2. SCOPE OF WORK
3. PROJECT OUTPUTS
4. PROGRESS

1 OBJECTIVES

- To develop program guideline for Standard Offer Program
- To select appropriate technology, M&V and compensation rate
- To propose program criteria and develop supporting documents

2 SCOPE OF WORK

- Review international SOP
- Propose SOP structure for Thailand
- Develop program criteria, technology selection and M&V rules
- Conduct economic analysis and propose proper compensation rate
- Organize stakeholder meeting
- Set up scheme procedure, develop supporting documents, approval criteria and scheme manual

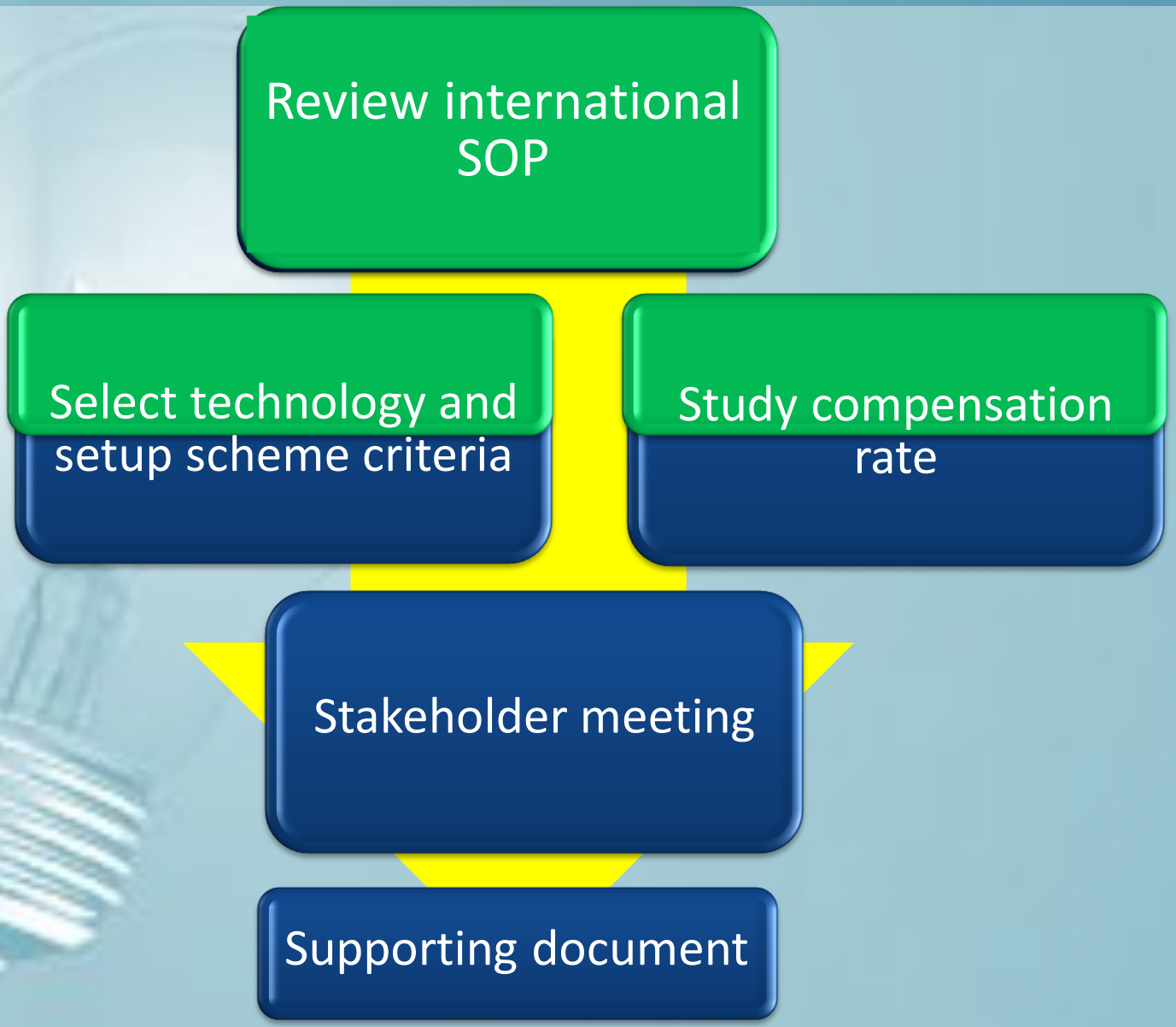
Project Procedure

Review international SOP	• Review international schemes • Compare and analyze KSF and KFF • Expert review • Design appropriate SOP
Select technology and setup scheme criteria	• Collect common & potential measures • Set program criteria • Saving measurement and verification
Study compensation rate	• Evaluate power generation benefits • Study incentive rate in other programs • Propose compensation system
Stakeholder meeting	• Commercials and industry. • Government organization. •Consultants and ESCO
Supporting document	• Program manual

3 PROJECT OUTPUTS

- Pattern of proper Standard offer program for Thailand:
  - can promote energy saving in residential sector and small business.
  - is worthwhile because the incentive paid to participants is lower than the cost of energy generation (concept of Least Cost Planning).
  - can promote small project or measures which are not accessed by conventional schemes

4 PROGRESS


Review international SOP
Select technology and setup scheme criteria
Study compensation rate
Stakeholder meeting
Supporting document

4 PROGRESS

Program design objectives

- Focus on Residential and Small business
- Provide access for small projects and investment
- Simplify measurement and verification as much as possible to reduce M&V cost
- Streamline process and time
- Reduce free rider for efficient subsidy
- Make sure the persistent of savings
- Check and balance process

4 PROGRESS

Some Key issues

1. Target groups

household

Small business and industry

4 PROGRESS

2. Source of Fund

-Energy conservation fund or

-Utility budget from cost saving

3. Energy type to offer

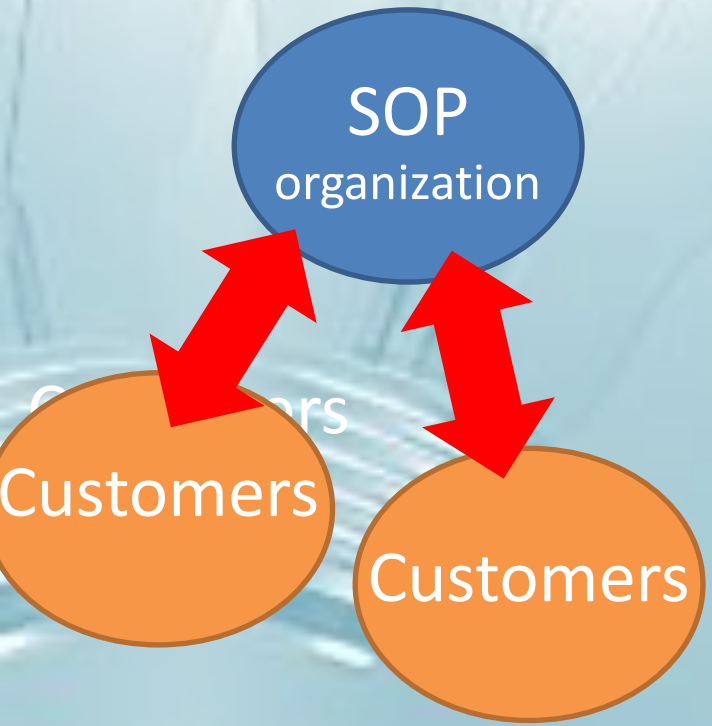
Both electricity and fuel savings

4 PROGRESS

4. Program structure

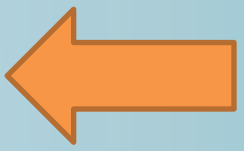
-direct contact with customer or

-with program sponsors



4 PROGRESS

5. Measurement and Verification

-Deemed saving 

-Simple M&V

-Full M&V

4 PROGRESS

Spectrum of SOP

Deemed saving — Simple M&V — Full M&V

Project Cost	low	high
Complicated	simple	Very complicated
Uncertainty	low	high
Payment	Single At Installation	Multiple Install. and performance payment
Potential sector	Residential	Big business

4 PROGRESS

6.Technology selection criteria

-Improve energy efficiency

-high energy saving impact

-Low acceptance from market

-Sound Technical support

-Appropriate for deemed saving M&V

THANK YOU