



Malaysia Energy Efficiency & Solar Thermal Project - MAEESTA



Project Introduction
Marlene Sayer, UNIDO



Partners



Funding Agency: Global Environment Facility (GEF)



Implementing Agency: United Nations Industrial Development Organization (UNIDO)



Executing Agency: SIRIM

Stakeholders:



MOSTI, KeTSA, MITI, EPU, MNRE, SEDA, ST, MGTC, SME Corp, SERI (UKM), FMM

Project Objective

To reduce Green House Gases (GHG) Emissions in Targeted Industrial Sub-Sectors Through Energy Efficiency (EE) and Application of Solar Thermal System.

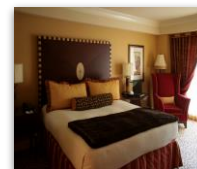
Focus Sectors



Industry

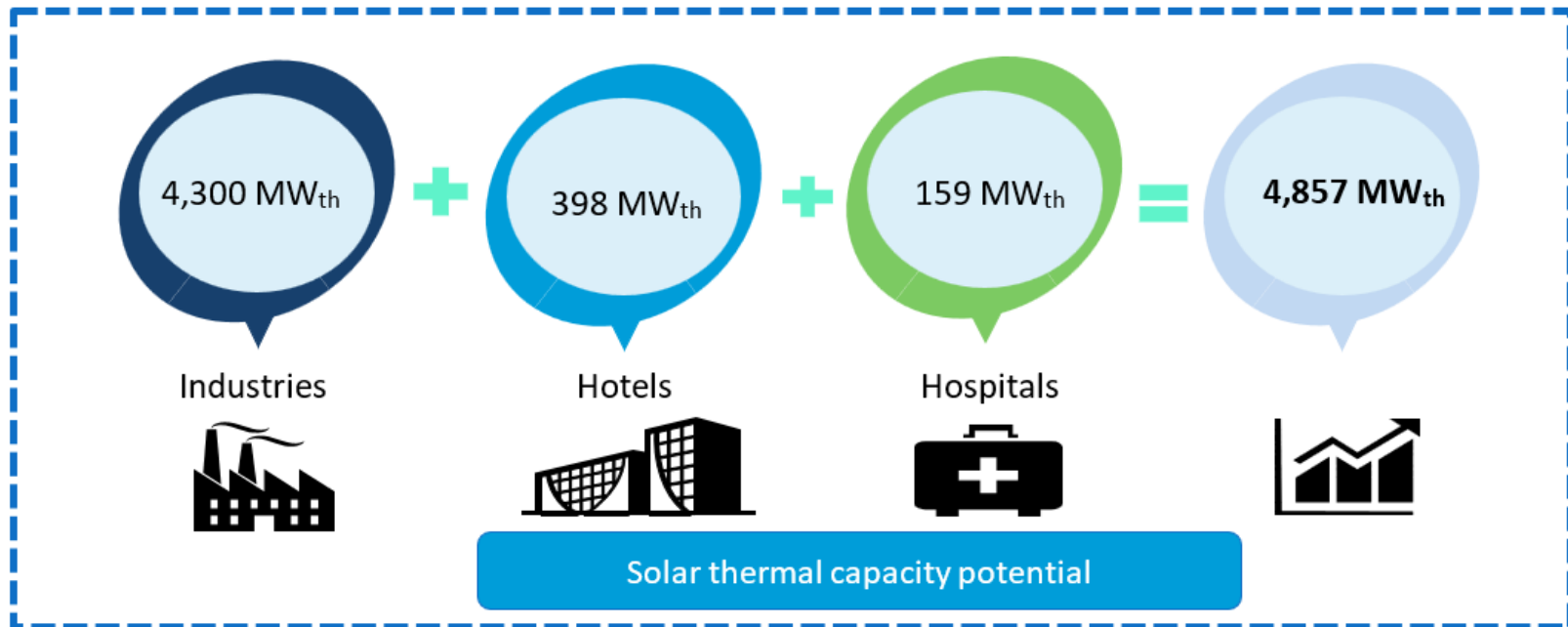


Hotel



Hospital

Why SHIP project?



Project Components



Component 1 - Regulatory framework, support program and financial incentive scheme

- Policy papers and financial incentive schemes established and endorsed by stakeholders.

Component 2 - Capacity building & Awareness Raising

- Awareness and capacity of stakeholders in 5 targeted industrial sub-sectors strengthened and utilized.

Component 3 - Upscaling and Demonstration Project

- Thermal EE and solar thermal technology demonstrated and deployed in 5 targeted industrial sub-sectors.

Component 1: Policy

- Solar Thermal Market Analysis for Malaysian Industries & Deployment Plan
- Energy Efficiency Conservation Act (EECA) will include thermal
- Review existing policy – National Energy Efficiency Action Plan (NEEAP)



Financial



Policy and Regulatory



Technology and R&D



Testing, Certification and Standardization



Awareness and Capacity Building

Component 2: Capacity building

- Training programme design

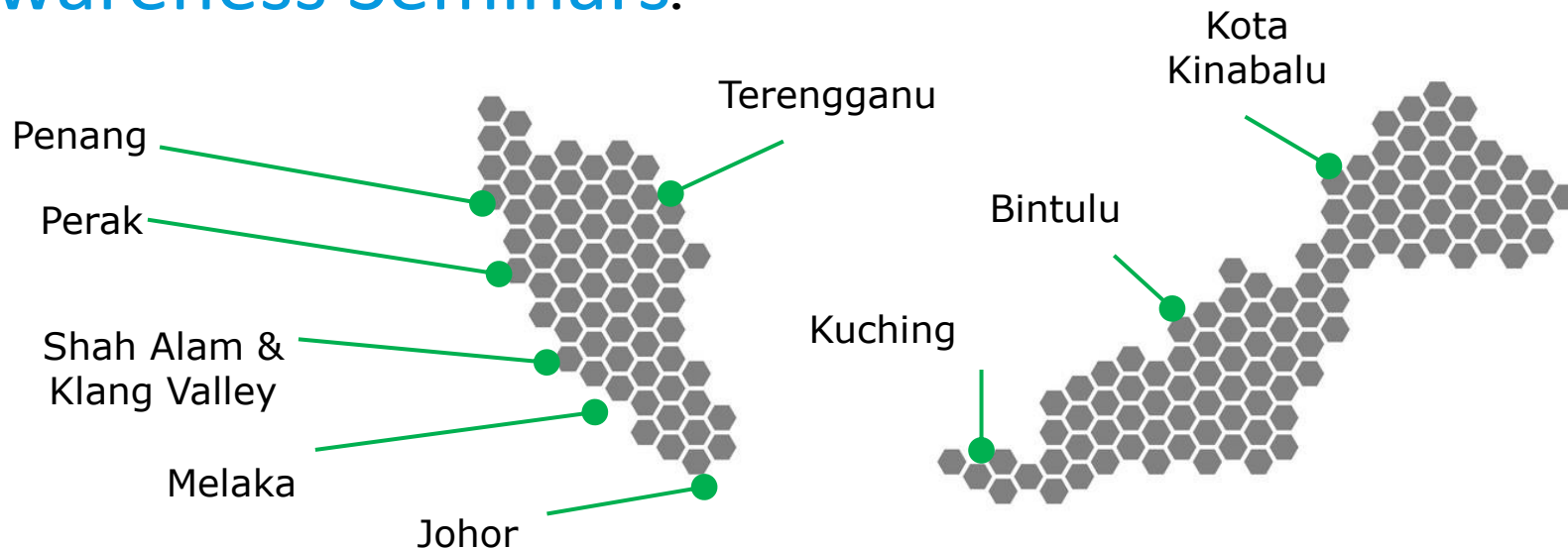
Training programme on energy efficiency based on process heating and cooling and solar thermal technology conducted for service providers, consultants, research institutes, universities and industries.



| User Training | Expert Training Program | | |
|----------------------|-------------------------|---------------------------------|--------------------|
| 2 Days User Training | Course 1 4 Days | On the Job Training 6 months | Course 2 4 Days |

- Expert Course 1: Energy Efficiency
- Expert Course 2: Solar Thermal Technology

Awareness Seminars:



Number of seminars



Total participants



Collaboration:

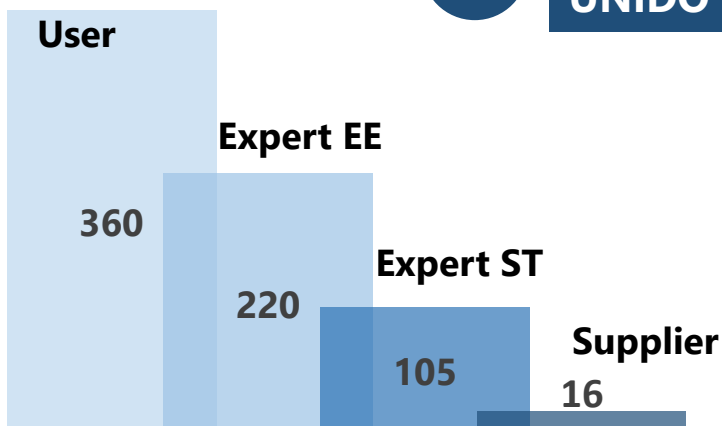


Training Achievements

Training Organized:

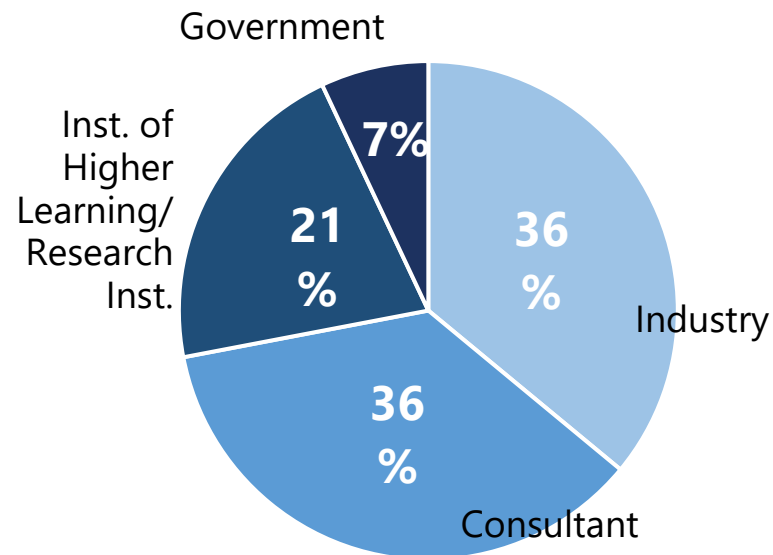
- 11** One/Two days User Training
- 7** Expert Training (4 Batches)
- 3** Extended Expert Trainings (for solar thermal)
- 1** Training on Aspects of Financial And Engineering Economics .

Participants (pax):



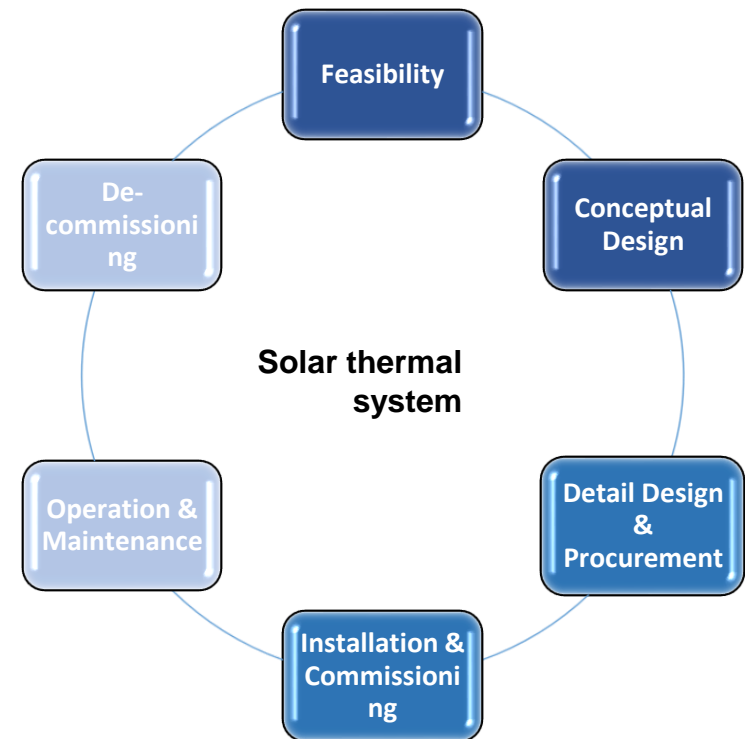
19 Certified UNIDO Experts

Category:



Component 3: Demonstration Projects

- 3 ST Demonstration projects installed (one will be funded 30% by project)
- Evacuated Tube, 240m²
- Flat Plate, 100m²
- Evacuated Tube, 392 m²
- 8 EE Demonstration projects
- More in the pipeline





UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



SUSTAINABLE DEVELOPMENT GOAL 9
INDUSTRY, INNOVATION AND INFRASTRUCTURE

Thank you for your attention



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