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# **APEC 2015 PPD III Environment-Related Services**

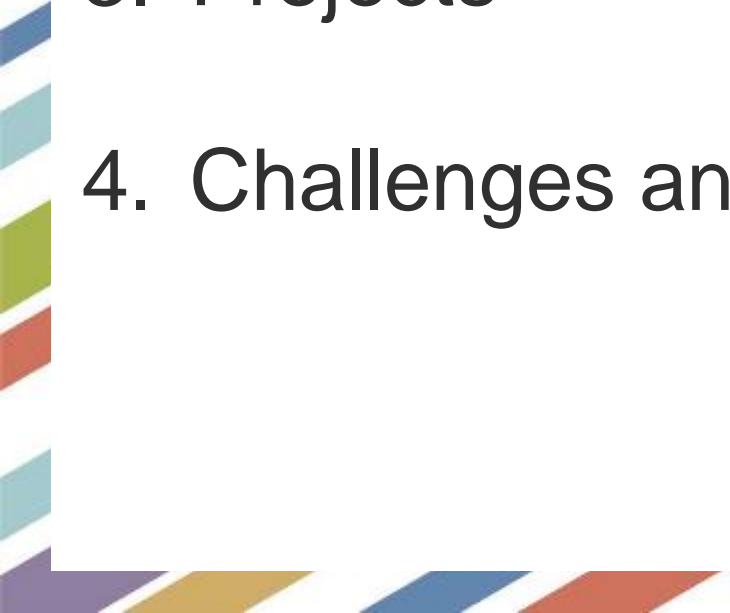
**17 May 2015  
Boracay**

[www.pacific.co.jp](http://www.pacific.co.jp)

***Hirofumi Ishizaka***  
**PC-Institute for Global  
Environment Research**



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## Japanese Leading Construction Consulting Company

Founded: 4 September 1951

President: Sigenori Takaki

Capital Stock: 490 million yen

Sales: 37.4 billion yen (1 October 2012-30 September 2013)

Employees: 1,625 (1 July 2014)

Head Office: 1-7-5 Sekido, Tama-shi, Tokyo

Business Registration: Construction Consulting / Geological Survey Business / Surveying Business / First-Class Registered Architect Office / Measurement Certification Business / Soil Pollution Survey Business / Specialized Labor Supply Business



## **Experts in Climate Change**

- *Toward a Sustainable Low-Carbon Society* -

[http://www.pacific.co.jp/service/management/cate03/sub02/PCiGER\\_pamph\\_e.pdf](http://www.pacific.co.jp/service/management/cate03/sub02/PCiGER_pamph_e.pdf)

## **Climate Change Policy**

Assessment and analysis of climate change policies and international negotiations

## **Climate Change Adaptation**

Development of strategies to cope with global warming

## **Climate Change Mitigation**

Feasibility study and implementation of greenhouse gas emission reduction projects

**Today's Highlight**

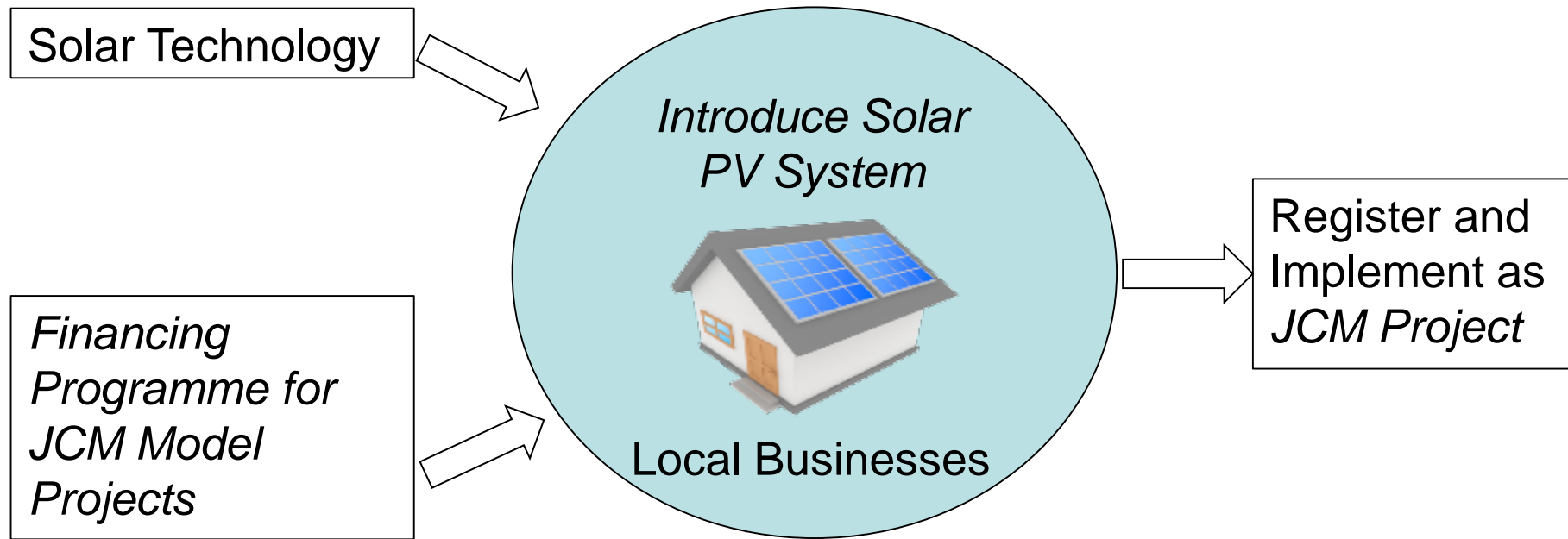
### *Renewable Energy and Energy Efficiency Projects*

- Services - Consulting for energy users and providers
- Power provision to consumers

# Projects: 1 Consulting for Energy Users

## Example

Brought technology and finance to enable local businesses to introduce solar energy in Palau



\*Note: *JCM* or *Joint Crediting Mechanism* is a greenhouse gas reduction scheme between Japan and developing country implemented in several countries



# Projects: 1 Consulting for Energy Users



# Projects: 1 Consulting for Energy Users

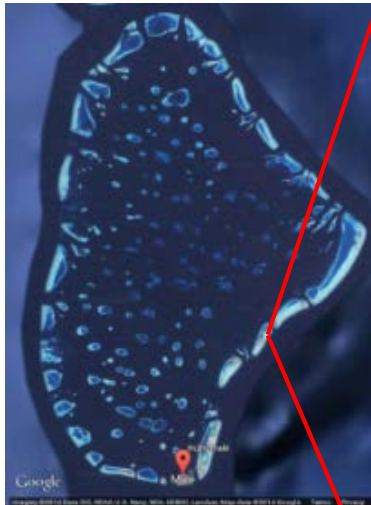




# Projects: 2 Providing Power to Consumers

## Example

Planned renewable energy powered mini-grid project to provide power to outer island community and resort in Maldives

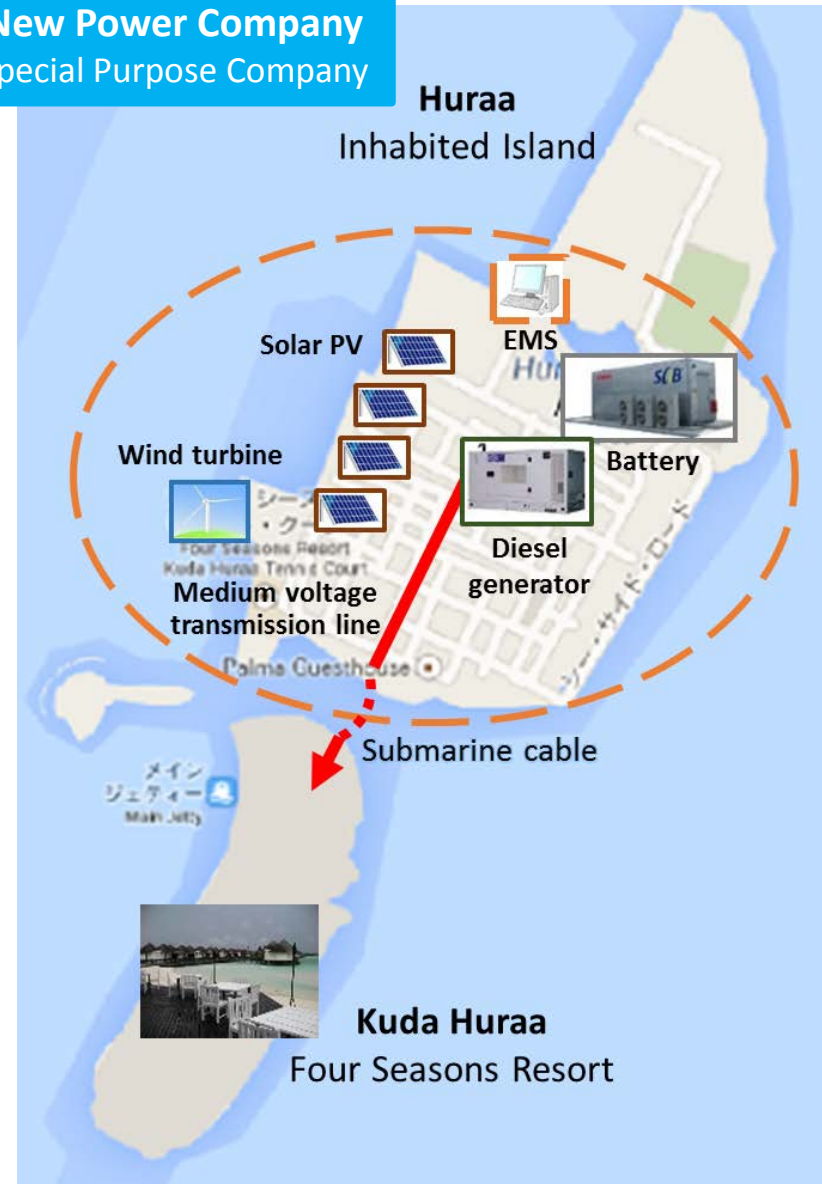


Male

©2014 Google  
Image: ©2014 DigitalGlobe



**New Power Company**  
Special Purpose Company





# Projects: 3 Providing Power to Consumers

## Example

Planned renewable energy powered mini-grid project to provide power to remote island community in Vietnam



Cu Lao Cham



# Challenges and Opportunities

## in providing low-carbon energy services

### Challenges in developing economies

- Lack of suppliers and engineers
- Lack of financiers
- Lack of understanding on technologies
- Customs duties and tax
- Restrictions to enter power service
- [*Energy subsidy*]

### Opportunities in developing economies

- High cost of energy
- Emerging pro-renewable energy policies: net-metering, tax exemptions...

# Challenges and Opportunities

## in providing low-carbon energy services

### Challenges away (in Japan)

- Lack of credit information on developing economy companies
- (Excessive) risk aversion
- Lack of interest in small economies
- Lack of information on market and regulations

### Opportunities away (in Japan)

- Affordable technologies
- Green financing
- Carbon credit
- Funding for feasibility studies and demonstration projects

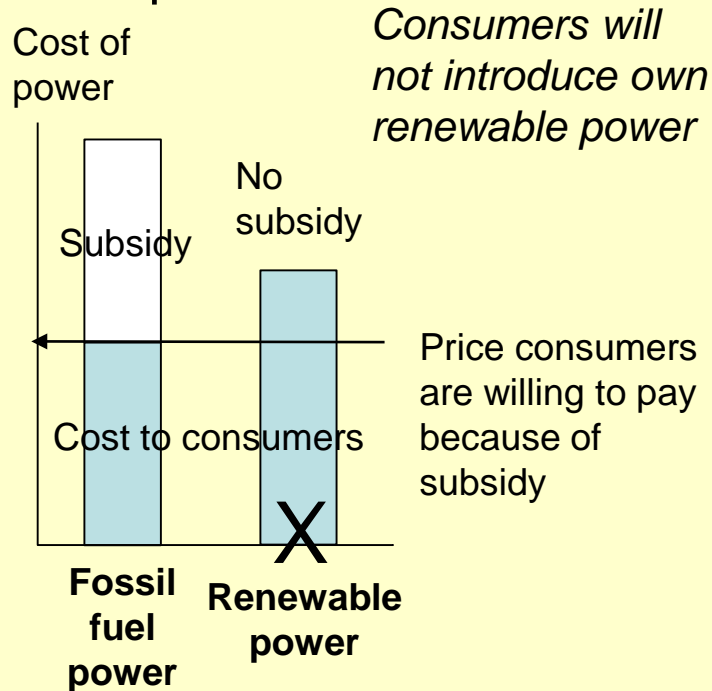
# Challenges and Opportunities

## in providing low-carbon energy services

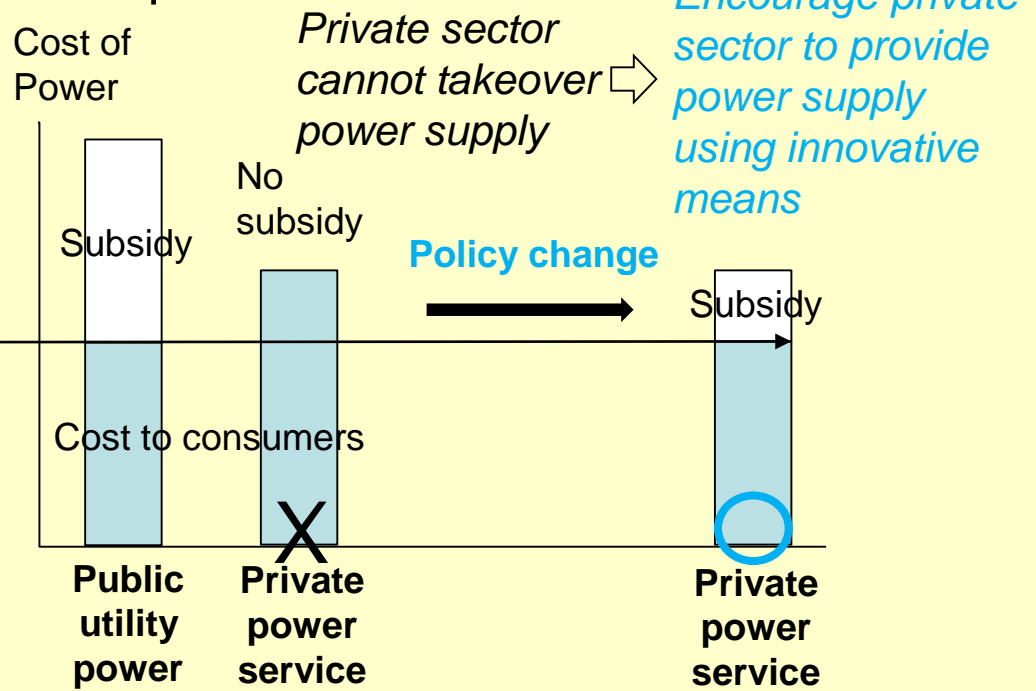
### Focus Topic [*Energy Subsidy*]

- May disincentivize move towards low-carbon energy
- May disincentivize private sector providing energy services

#### Example 1



#### Example 2







**Thank you!**

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