



# **REDGTF Flagship Projects**

**The 2<sup>nd</sup> APP Ministerial Meeting  
(New Delhi, India)**

**15 October 2007**

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# Overview of REDGTF

Date	Activities	Notes
Apr 2006	APP-PIC/REDGTF Joint Meeting in Berkeley, CA. USA	Office of Secretariat
Aug 12-16 2006	2 <sup>nd</sup> REDGTF Meeting in Sydney. 24 out of 31 proposals recommended for inclusion in Action Plan. Country Report submitted	Sydney
Oct 11-14 2006	2 <sup>nd</sup> APP-PIC Meeting in Jeju, Korea: Action Plan reported and reviewed	PIC, Office of Secretariat
March 2007	10 new projects submitted for approval at 3 <sup>rd</sup> REDGTF and finally 23 projects were listed in the action plan through out-of-session-approval.	PRT, Office Of Secretariat
Mar 20-24 2007	3 <sup>rd</sup> REDGTF Meeting in San Diego, USA. 3 additional projects from Australia were approved by TF members.	San Diego
July 2007	Action Plan updated to include: new projects; and issues relating to communality of frameworks for emissions trading schemes, tariff levels and intellectual protection	Office of Secretariat
Present	<b>Total 27 projects being listed in the Action Plan. Two out of 27 projects have been selected as flagship projects</b>	REDGTF

# Flagship Project-1(overview)



- **Project Title : Feasibility Study and Development of Microgrid Smart Energy Solution**
- **Lead Country : Korea, Japan**
- **Participating Countries : Japan, Korea, potentially Australia**
- **Locations : Japan, Korea, potentially other APP countries**
- **Objective**
  - **to develop an Integrated microgrid management S/W and a manual for optimal combination of various Distributed Resources considering environmental conditions and customer energy usage patterns**

# Flagship Project-1(overview)

## ■ Significance for APP

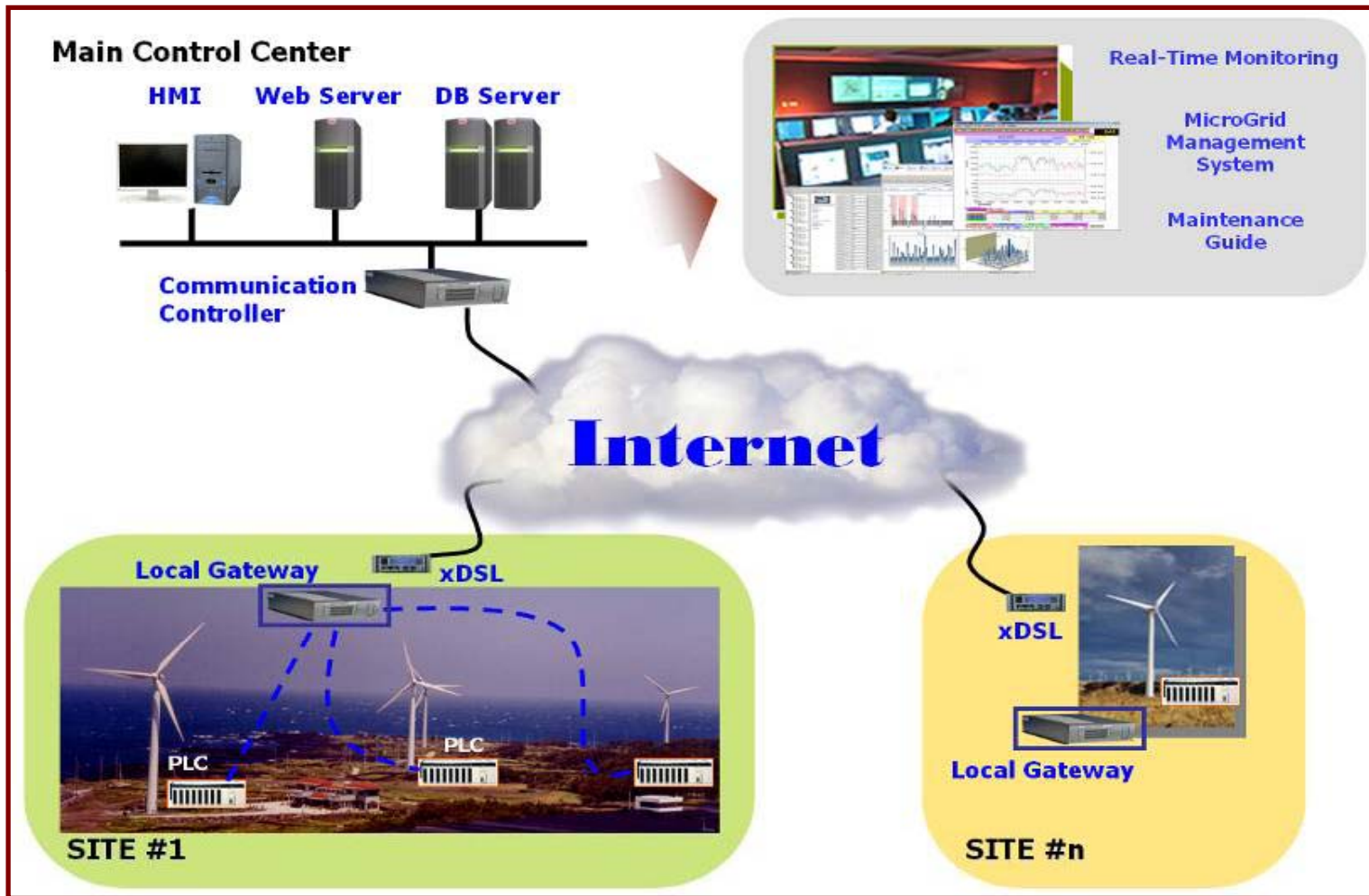
- Reduction of dependence on fossil fuels and facilitate the spread of clean energy technologies.
- The draft manual will make it possible to quantitatively assess the potential of various renewable energies and study the optimal combination of them, and also analyze the projects economically
- Validation of feasibility and dissemination potentials will also be available

## ■ Resources

[Unit : US\$]

Funding Source	2007	2008	2009	Total
Total	371,126	257,234	204,716	833,076
Cash	318,607	168,274	133,976	620,857
In-Kind	52,519	88,960	70,740	212,219

# Flagship Project-1(overview)



# Flagship Project-1(milestone)



Activity Number	Description	Start /Completion
A1	<p><b>Commencement of Smart Energy Solution (SES) project and studying best combination of DGs</b></p> <ul style="list-style-type: none"> <li>➤ <i>Concept Design, development of SES</i></li> <li>➤ <i>Site Survey, Study on the best combination of various renewable energies</i></li> <li>➤ <i>Development of energy optimization technology</i></li> </ul>	July2007/ June 2008
A2	<p><b>Detail system Development and Draft Manual</b></p> <ul style="list-style-type: none"> <li>➤ <i>Development of Management System</i></li> <li>➤ <i>Simulation of small-scale pilot SES system</i></li> </ul>	July 2008/ June 2009
A3	<p><b>Evaluation on the final draft manual and SES Management System</b></p> <ul style="list-style-type: none"> <li>➤ <i>Test of individual models of the SES system</i></li> <li>➤ <i>Development and Evaluation of the SES system</i></li> </ul>	July 2009/ June 2010

# Flagship Project-2(overview)



- **Project Title : Building Critical Mass For Ultra High Efficiency Solar Power Stations**
- **Lead Country : Australia**
- **Participating Countries : USA, and potentially Korea and China**
- **Locations : Australia, USA and other APP countries**
- **Objective : To develop and demonstrate commercial-scale zero emissions solar concentrating PV power on a cost effective and sustainable basis**
- **Background**
  - **An Australian company (Solar Systems) has developed technology to concentrate the sun's energy 500 times and deliver electricity at one-sixth of the cost of the conventional solar power**

# Flagship Project-2(overview)

## ■ Significance for APP

- The technology to be demonstrated in this APP project provides the first step on the pathway for solar power stations to become self sustaining and commercially competitive in the energy market
- Through the Partnerships of the APP, the demonstration in Australia will be expanded to establish solar power station in the U.S. and potentially Korea and China, delivering at least 1GW by 2012

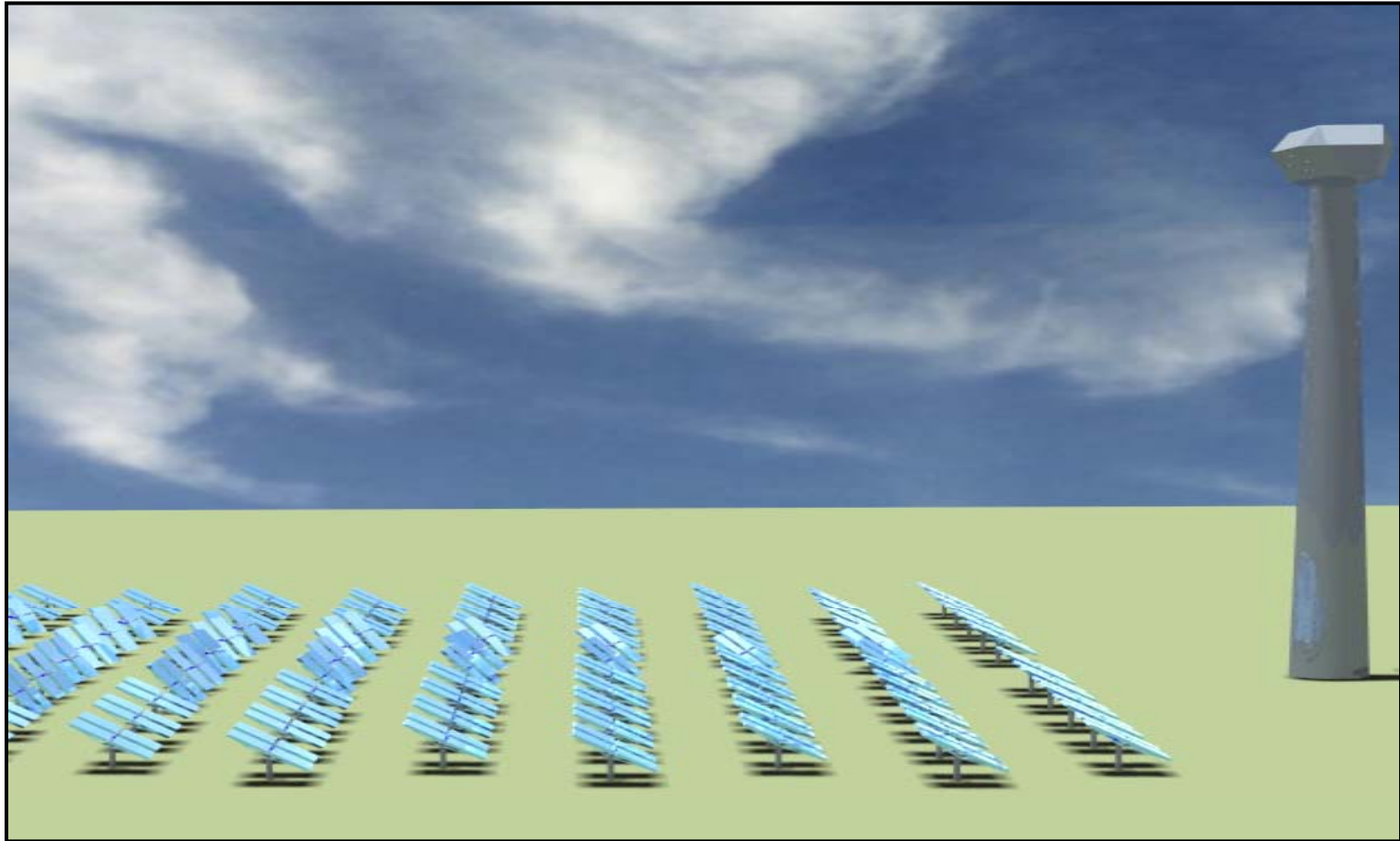
## ■ Resources

[Unit : US\$000's][1AUD=0.89USD]

Funding Source	2007	2008	2009	2010	2011	TOTAL
Total	100	1800	3800	6500	1300	13.5 mil
Cash	100	1800	3800	6500	1300	13.5 mil
In-Kind	N/A	N/A	N/A	N/A	N/A	N/A

\* Funding amounts are approximate only, funding agreement still under negotiation.

# Flagship Project-2(overview)



# Flagship Project-2(milestone)



Activity Number	Description	Start /Completion
A1	Funding agreement in place for Australian demonstration phases.	Oct 07
A2	Establishment of Partnerships for manufacturing, deployment, ownership and operation of solar power stations in the United States, Korea and China	Ongoing throughout project duration
A3	Construction of 140kW Development Facility in Australia	Nov07 / July08
A4	Construction of 0.5MW Facility in Australia	Aug08 / June09
A5	Construction of 2MW HCPV repeatable power station unit in North West Victoria, Australia	Jan10 / Dec10
A6	Confirmation of international partnerships arrangements in place, including plans for deployment of solar power stations in the U.S., Korea and China.	Dec10 / March11
A7	Contracting and deploying follow on systems –over and above the scope of the project	2012

# Thank You