



BP Solar

Municipal Solar Infrastructure Project

Village Power' 98

Oct.6-8,1998

The World Bank,
Washington,D.C.

*Presented
by:*

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Philippines: *Facts and Figures*

- **Population: 71.5 million**
- **Area: 300K square kilometers**
- **7,100 islands (Luzon, Visayas, Mindanao)**
- **16 regions; 76 provinces**
- **1997 energy consumption: 231 Million BFOE**
- **Imported energy- 60%**
- **Indigenous energy-40%**



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MSIP: *Genesis I*

- **March 1994 - discussions with DoE**
- **March 1994 - strong support, Congressman Bautista**
- **Identify DILG as appropriate implementing agency**
- **DILG requests BP to seek funding from Australia**
- **July 1994 - BP Solar submits application to AusAID**
- **December 1994 - AusAID “in principle” commitment**



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MSIP: *Genesis II*

- **December 1994 - feasibility study requested by AusAID/ NEDA**
- **June 1995 - BP Solar completes FS**
- **AusAID and NEDA assess FS**
- **August 1995 - AusAID Appraisal Team visits Philippines**
- **January 1996 - AusAID Appraisal completed**
- **February 1996 - ICC Tech. Committee endorses MSIP**



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MSIP: *Genesis III*

- **March 1996 - change of gov't in Australia, all DIFF projects cancelled**
- **April to July 1996 - intensive bi-lateral lobbying**
- **September 1996 - Australian gov't gives formal approval**
- **January 1997 - ICC Cabinet gives formal approval**
- **March 1997 - commercial contract w/ DILG signed**
- **June 1997 - loan agreement signed**
- **November 1997 - All preconditions met ; Notice to Proceed issued**



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MSIP: *Objective*

Improve the quality of life in remote barangays identified by Social Reform Agenda (SRA)

by

Upgrading/extending the level and quality of services offered by LGUs



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MSIP: *Scope*

- **Largest solar project in the world**
- **Approx. 1000 solar packaged systems**
- **7 provinces**
- **47 municipalities**
- **Approx. 400 barangays**



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MSIP: *SRA Provinces*

- **Guimaras**
- **Eastern Samar**
- **Surigao del Sur**
- **Biliran**
- **Basilan**
- **Sulu**
- **Tawi-tawi**



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MSIP: *Major Stakeholders*

- **Department of The Interior and Local Government**
- **AusAID; EFIC**
- **BP Solar**
- **Filipino People**



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MSIP: *How ?*

Using *solar technology* and compatible high efficiency equipment

as

the enabling technology

to

provide minimum basic needs



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MSIP: *Why Solar Technology?*

- **Modular for Immediate Needs**
- **Appropriate for Village Maintenance**
- **Sustainable**
- **Reliable**





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MSIP: *What Can Solar Do?*

- **Reliable and Sustainable Power for:**
 - Vaccine Refrigeration
 - Potable Water Supply
 - Communal Lighting
 - Community TV/Video
 - Rural Communications



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MSIP: *Vaccine Storage*

- District Hospitals
- Rural Health Units
- Barangay Health Centres





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MSIP: *Potable Water Supply*

- **Municipal Centres and RHU**
- **District Hospitals**
- **Barangays and BHC**





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MSIP: *Area Lighting*

- Markets
- Fishermen's Wharf
- Communal Areas





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MSIP: *Quality Lighting*

- **District Hospitals**
- **Rural Health Units**
- **Barangay Health Centres**
- **Municipal Halls**
- **Barangay Halls**
- **Schools**



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MSIP: *Implementation*

Training facility in Cebu

- **16 Advance Teams in field**
 - Prepare communities
 - Develop community management teams
 - Develop fund-raising schemes
- **6 installation teams**
 - Installing systems
 - Training municipal engineers & barangay technicians



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MSIP: *What Are The Benefits?*

- **Health, Education, Community Welfare**
 - Health Services Targeted at Women / Children
 - Community Participation and Awareness
 - Communication and Education
 - Community Health
 - Social Cohesion



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MSIP: *Benefits*

- **Rural Economy**
 - Increased LGU Efficiency
 - Reduced Urban Migration
 - Commercial Activity
 - Productivity





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MSIP: *Benefits*

- **Energy and Environment**
 - **Environmentally Benign**
 - **Reduce Fossil Fuel**



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MSIP: *Benefits*

- **Community**
 - Improved Governance
 - Increased Community Awareness
 - Increased Community Participation





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MSIP: *Differential Benefits*

Women in Development

- Targeted Health Services
- Improved Security at Night
- Reduced Toil





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MSIP: *Solar Power in Guimaras*

