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SARI / Energy



Capacity Development Program for Afghan Women (Clean Energy Access)

March 22 - 27, 2010

The Muthoot Plaza, Thiruvananthapuram, Kerala, India

And

March 28 - 30, 2010

Bangalore, Karnataka, India

-----KNOWLEDGE PARTNERS-----



Sunday, March 21, 2010

07:00 - 09:00 Informal Dinner to meet & greet the delegation – Venue:
Hyde Park, roof top

Monday, March 22, 2010

09:00 - 09:45 Registration - PA Consulting Group and EMC - Summit
Hall

10:00 Leave for Kanakakunnu Palace for WISER launch

**LAUNCH OF SOUTH ASIA
WOMEN'S INSTITUTE FOR SUSTAINABLE ENERGY RESEARCH (WISER)
A joint Collaboration of
United States Agency for International Development (USAID)
And Energy Management Centre (EMC)
Thiruvananthapuram/Kerala, India: 22 March 2010**

Venue: Kanakakunnu Palace

Master of Ceremony – Mr. A.M. Narayanan, Head of Energy Efficiency Division, EMC

11:00 - 11:10 **Welcome Address**
Prof. V. K. Damodaran, Vice Chairman, EMC

11:10 - 11:25 **Keynote Address - Promoting Clean Energy Access for Women in
South Asia**
Ms. Elizabeth Warfield, Deputy Mission Director, USAID/India,
New Delhi

11:25 - 11:35 **Presidential Address**
Mr. L. Radhakrishnan, IAS, Principal Secretary (Power),
Government of Kerala

11:35 - 11:50 **Inaugural Address**
Honorable Minister for Health and Social Welfare, Government of
Kerala, Smt. P. K. Sreemathy Teacher

11:50 - 12:00 **Closing Remarks and Vote of Thanks**
Mr. S. Padmanaban, Director, SARI/Energy Program,
USAID/India, New Delhi

12:00 - 12:10 Group Photograph

12:15 Depart from Kanakakunnu Palace to Hotel Muthoot Plaza

12:30 - 1:30 Lunch at Summit Hall, Hotel Muthoot Plaza

Capacity Development Program for Afghan Women

A Training Workshop to Enhance Clean Energy Access

Venue: Summit Hall

Setting the Stage

1:45 - 1:55 Purpose of the program and expectations
Mr. Michael Hajny, Chief of Party, PA Consulting Group, New Delhi, India

(Moderated by Mr. Michael Hajny, PA Consulting Group)

1:55 - 2:10 Introduction by the Participants

2:10 - 2:25 Synopsis on SAWIE - Ms. Mercy Thomas, Regional Project Coordinator, SARI/Energy, USAID/India, New Delhi

(Moderated by Mr. S. Padmanaban, SARI/Energy)

2:25 - 3:15 Women in Energy Round Table discussion

- Ms. Rukshana Zuberi – Pakistan, Team Leader for SAWIE Working Group on Capacity Building/ Best Practices
- Ms. Tara Shrestha, Nepal – Team Leader for SAWIE Working Group on Microfinance
- Dr. Indira Shakya, Nepal – Gender Mainstreaming
- Ms. Resy George, ANERT, India – Renewable Energy Technologies

3:15 - 3:30 Course Overview – Dr. Nandita Mongia, Principal Advisor, PA Consulting Group, New Delhi

3:30 - 3:45 Tea/Coffee break

3:45 - 4:30 Opportunities in Afghanistan for Energy and the Inevitable Transition to Renewable Energy - Ms. Cecile Warner, National Renewable Energy Laboratory (NREL), USA

4:30 - 5:15 Afghanistan Geospatial Toolkit
Ms. Shannon Cowlin, NREL, USA

5:15 - 5:30 Wrap up comments: Mr. S. Padmanaban, Director, SARI/Energy, USAID/India, New Delhi

7:00 - 9:00 Dinner

Tuesday, March 23, 2010

Day-02 Session

(Moderated by Prof. V.K. Damodran, EMC)

- 9:00 - 9:45 Sustainable Energy and Women - Dr. Indira Shakya,
Centre for Rural Technology (CRT/N) Nepal
- Gender Mainstreaming of Energy Policy
 - Gender Assessment of Energy Projects
- 9:45 - 10:15 Calibrating your Solar Energy Intuition
Ms. Cecile Warner (NREL), USA
- 10:15 - 11:00 Small Hydro based energy generation
The Small Hydro Centre, Mr. Anil G, Head, Small Hydro
Division, EMC, Thiruvananthapuram, including Q & A
- 11:00 - 11:15 Tea /Coffee break
- 11:15 - 12:00 Wind Energy - Dr. Deepa Kurup, Scientist- R & D Division,
Centre for Wind Energy Technology (CWET), Chennai
- 12:00 - 12:50 Traditional Biomass and Improved cook stoves
Ms. Shannon Cowlin, (NREL),USA
- 12:50 - 1:15 Bio gas and applications - Mr. Saji Das, Managing Director,
Biotech India Pvt Ltd, Thiruvananthapuram, Kerala
- 1:15 - 2:00 Lunch

Energy Efficiency Options

(Moderated by Mr. A.M. Narayanan, EMC)

- 2:00 - 2:30 Introduction to PV Technology
Introduction to Solar Water Heating Technology -
Ms. Cecile Warner, NREL, (Interactive session)
- 2:30 - 3:00 Efficient Lighting - Mr. K. M. Dhairesan Unnithan, Director,
Energy Management Centre , Thiruvananthapuram, Kerala
- 3:00 - 3:15 Efficient Lighting (LED) - Dr. C.V Rao, Convenor, Energy
Conservation Mission(ECM), Hyderabad
- 3:15 - 3:30 Tea/Coffee
- 3:30 - 4:00 Travel to EMC

- 4:00 - 6:00 Demonstration of Energy Efficient Appliances at the EMC premises
- Demonstration of Thaapa bharani (Thermo Cooker) developed and popularized by Energy Management Centre in Kerala by EMC staff
 - Demonstration of LED Lamps and other energy efficient products from ECM leading towards integrated energy plan for un-electrified villages in rural areas Dr. C.V Rao
- 6:00 - 7:00 Travel back to hotel
- 7:00 - 9:00 Dinner

Wednesday, March 24, 2010

**Day-03 Session
(Moderated by Mr. K.M. Dharesan Unnithan, EMC)**

- 9:00 - 9:45 Short overview of Energy Conservation Act - Mr. N.T. Nair, Editor, Executive Knowledge Lines
- 9:45 - 10:30 Energy Efficient Systems for Productive end uses: Water pumping, crop crushing, drying etc. - Ms. Cecile Warner, NREL
- 10:30 - 10:45 Q & A
- 10:45 - 11:00 Tea/Coffee break
- 11:00 - 11:45 Space heating and cooling - Mr. A.M. Narayanan, Head of Energy Efficiency Division, EMC
- 11:45 - 12:15 Green Building Concepts - Ms. Sujata Ganapathi, Manager, Wipro
- 12:15 - 1:00 Star Labeling Program in India - Ms. Nisha Jose, Sub Divisional Engineer, Bharat Sanchar Nigam Limited (BSNL), India
- 1:00 - 2:00 Lunch
- 2:00 - 3:00 Site Visit

- 3:00 - 4:00 What is an Energy Clinic? How to organize an Energy Clinic?
Mr. K. M. Dharesan Unnithan, Director, EMC
- 4:00 Formation of four groups among the participants to discuss one of
the following by each group in the context of Afghanistan
- Solar Renewable
 - Household Energy
 - Gender Energy
 - Energy Policy
- 4:00 - 5:00 Site Visit
- 7:30 - 9:00 Dinner

Thursday, March 25, 2010

Day-04 Session

(Moderated by Prof. V.K. Damodran, EMC)

- 9:00 – 9:20 An Introduction to Micro Financing of Renewable Energy and
Energy Efficiency Projects – Ms. Deepa S. Kumar, Energy
Technologist, EMC
- Various Financing Mechanisms in Renewable Energy Supply and productive uses:
- 9:20 – 10:00 S3IDF's Merchant Bank Model - Ms. Ramamani Rao, Manager (PR
& Fund Raising), S3IDF
- 10:00 -10:45 Urja Store - Mr. Subhash Babu, Energy Technologist, EMC
- 10:45 - 11:30 Women's Empowerment - Ms. Sarada Muralidharan, Executive
Director, Kudumbashree
- 11:30 - 11:45 Tea /Coffee break
- 11:45 - 12:00 Q & A
- 12:00 - 1:00 Case studies and best practices in sustainable financing - Ms. Revathi
Venketraman, President, Association of Women Entrepreneurs of
Karnataka. (AWAKE)
- 1:00 - 2:00 Lunch
- 2:00 - 6:00 Visit to Energy Clinic, Manvila/Kulathur
- 7:00 - 9:00 Dinner

Friday, March 26, 2010

Day-05 Session

(Moderated by Mr. K.M. Dhairesan Unnithan, EMC)

9:00 - 9:30 Energy Policy Developments - Prof. V.K. Damodaran, Vice Chairman, EMC

9:30 - 10:00 Energy Access and Millennium Development Goals
Dr. Nandita Mongia, Principal Advisor/Energy, PA Consulting Group, New Delhi, India

10:00 - 10:30 Women's Rights and Natural Resources (in the Afghan context)
Ms. Suraya Pakzad, Executive Director of Voice of Women Organization, Afghanistan

10:30 - 10:45 Q & A

10:45 - 11:00 Tea/Coffee break

(Moderated by Ms. Deepa S. Kumar, EMC)

11:00 - 11:30 Women's Rights and Natural Resources - Dr. Seema Bhaskar, State Project Director, Kerala Mahila Samakhya Society, Thiruvananthapuram, Kerala

11:30 - 12:15 Presentation of recommendations by each team representative from the four groups

12:15 - 12:30 Program evaluation by participants

12:30 - 1:30 Lunch

(Moderated by Dr. Nandita Mongia, PA Consulting Group)

1:30 - 2:30 Developing a road map for Afghanistan with support from WISER (to be prepared by the trainees with inputs from WISER team leaders, and thematic team representatives of the workshop groups)

(Moderated by Mr. K.M. Dhairesan Unnithan, EMC)

2:30 - 2:45 Valedictory Session - Chief Guest Ms. Neela Gangadharan, Chief Secretary, Government of Kerala

2:45 - 3:00 Presentation of Certificates by the Chief Guest

3:00 - 3:30 Closing Remarks and Vote of Thanks - Ms. Mercy Thomas, Regional Project Coordinator, SARI/Energy, USAID/India, New Delhi

3:30 - 3:45 Tea/Coffee break

Saturday, March 27, 2010

7:30 - 11:00	Travel to Site visit
11:00 – 3:00	Site visit - Applications of Renewable Energy in Hospitality Sector
3:00 - 7:00	Travel back to Hotel
7:00 - 9:00	Dinner

Sunday, March 28, 2010

Travel to Bangalore

Monday, March 29, 2010

Venue: TATA BP Solar, IT City, Bangalore,India

10:00 - 10:15	Welcome Address and Introduction
10:15 - 10:30	Safety Session
10:30 - 10:45	Overviews of activities at Tata BP Solar Customer service
10:45 - 11:00	Tea Break
11:00 - 1:00	Solar PV Systems: Components, Working and Trouble Shooting
1:00 - 1:30	Lunch break
1:30 - 3:00	Solar Thermal Systems. Components, Working and Applications / Products
3:00 - 5:30	Demonstration and Installation. Installation Video - Lantern / HLS
5:30 - 6:00	Demonstration of Street Light

Tuesday, March 30, (till pre lunch) 2010

9:00 - 10:15	Installation of HLS Hands On Experience
10:15 - 10:30	Tea break
10:30 - 12:30	Servicing solar products: Modules / SCR / Battery
12:30 - 1:30	Factory visit
1:30 - 2:00	Close with Lunch

2:00 - 2:30 Travel to SELCO

March 30 (Afternoon)

SOLAR ELECTRIC LIGHT COMPANY (SELCO), Bangalore, India

2:30 - 3:30

- Overview of SELCO
- What is the specific problem SELCO is trying to address?
- What is SELCO's vision in trying to resolve these issues?
- Brief description of SELCO's operations (approach)
- SELCO innovation in implementing this strategy
- Impact of our work
- Challenges

Ms. Revathi K. Vice President & CFO, SELCO, Bangalore

3:30 - 3:45 Tea/Coffee break

3:45 - 4:45

- Financial Models
- 2 or 3 case studies of financial models
- Impact of these financial innovations
- Challenges

Ms. Revathi K. Vice President & CFO, SELCO, Bangalore

4:45 - 5:45

- Innovations
- Overview of Innovations Department
- Presentation of 2 or 3 case studies
- Learning and challenges
- 1 video presentation (group will move towards conference room for viewing)

Ms. Sarah Alexander, Innovations Department at SELCO, Bangalore

5:45 - 6:45 Travel to the Hotel Radha Regent
