





CONFERENCE PROGRAMME

As dated on 16/02/2015



IN PARTNERSHIP WITH





DAY ONE: 15 FEBRUARY 2015: VIGYAN BHAWAN, NEW DELHI		
1030 – 1200 Hrs	Inaugural Session (Code: REI/01/01) Venue: Main Convention Hall Coordinator: Mr Tarun Kapoor, Joint Secretary, Ministry of New & Renewable Energy, Government of India	Inaugural Address by Mr Narendra Modi Hon'ble Prime Minister of India Mr Piyush Goyal Hon'ble Minister of State (I/C) for Power, Coal and New & Renewable Energy, Government of India Ms Nirmala Sitharaman Hon'ble Minister of State (I/C) for Commerce & Industry, Government of India
1200 – 1230 Hrs	TEA	
1230 – 1330 Hrs	Financing Renewable Energy: Success Strategies (Code: REI/01/02) Venue: Main Convention Hall This session will deliberate & evolve Success Strategies for Financing Renewable Energy upscaling ranging from "Rooftop" to "Ultra Mega" renewable energy Projects. On the other side solutions structuring shall include the required "policy & regulatory framework", products & solutions from Lenders & Investors — both Global & Domestic. Supported by: Mr Sanjeev Gupta Managing Director, NEXGEN Financial Solutions Pvt Ltd and Financial Advisor - Gujarat Solar Mission Coordinator: Dr P C Pant, Director, Ministry of New & Renewable Energy, Government of India	Opening remarks by Chair (5 minutes) Mr Arvind Subramanian Chief Economic Adviser to Government of India Special Remarks by Moderator (5 minutes) Dr Rajendra K Pachauri Chairman, Intergovernmental Panel on Climate Change (IPCC) Initial Remarks by Panelists Ms Arundhati Bhattacharya Chairman, State Bank of India Ms Naina Lal Kidwai Chief Executive Officer & Country Head, HSBC India Hon'ble Patricia M Louii Member of the Board of Directors, The Export-Import Bank of the United States Mr Praveen P Kadle Managing Director & Chief Executive Officer, Tata Capital Ltd Mr Ravneet Gill Chief Executive Officer, Deutsche Bank Mr Sanjeev Gupta Managing Director, NEXGEN Financial Solutions Pvt Ltd and Financial Advisor - Gujarat Solar Mission Mr Sonjoy Chatterjee Chairman, Goldman Sachs (India) Securities Pvt Ltd

Mr Sumant Sinha

Founder and Chief Executive Officer, ReNew Power

Ms Sunita Sharma

Managing Director & Chief Executive Officer, LIC Housing Finance Ltd

Mr Vivek Pathak

Regional Director - Asia Pacific, International Finance Corporation (World Bank Group)

Mr Yaduvendra Mathur, IAS

Chairman & Managing Director, Export Import Bank of India

Discussions (20 minutes)

1330 – 1430 Hrs LUI

LUNCH

1430 - 1545 Hrs

Make in India I— Renewable Energy Focus (Code: REI/01/02a)

Venue: Main Convention Hall

This session will deliberate on the key policy interventions and support mechanisms required to incentivise domestic production and reduce dependence on imports, with focus on avenues to make India the hub for manufacturing renewable energy equipment.

Sponsor: **Department of Industrial Policy & Promotion**

Supported By: United Nations Industrial Development Organization

Coordinator: **Dr D K Khare**Director, Ministry of New and
Renewable Energy, Government of
India

Opening remarks by Chair (5 minutes)

Mr Amitabh Kant

Secretary, Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India

Remarks by Moderator (5 minutes)

Dr Ajay Mathur

Director General, Bureau of Energy Efficiency, Under the Ministry of Power, Government of India

Address (10 minutes)

Mr Adnan Z Amin

Director General, International Renewable Energy Agency

Initial Remarks by Panelists (3 minutes each)

Mr Ajay Goel

Chief Executive Officer, Tata Power Solar

Mr A K Jain

Chairman & Managing Director, Rajasthan Electronics & Instruments Ltd, Government of India

Mr Gao Jifan

Chairman & Chief Executive Officer, Changzhou Trina Solar Ltd, Jiangsu

Ms Maria Van Der Hoeven

Executive Director, International Energy Agency

Mr Rakesh Bakshi

Managing Director, RRB Energy Ltd

Mr Ramesh Kymal

Managing Director, Gamesa Wind Turbines Pvt Ltd Mr Shatrughna Singh Additional Secretary, Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India Prof Xi Wenhua Director General, International Solar Energy Center for Technology Promotion and Transfer, United Nations **Industrial Development Organization** Discussions (30 minutes) 1430 - 1545 Hrs **Side Event Opening Remarks (5 minutes)** Mr Anil Jain (Moderator) Report on India's Renewable Advisor-Energy, National Institution for Transforming India (NITI) Aayog, Government of India **Electricity Roadmap 2030 (Code: Special Address (5 minutes)** REI/01/02b) Ms Sindhushree Khullar Chief Executive Officer, National Institution for Transforming India (NITI) Aayog, Government of India **Venue: Conference Hall No 5** In November 2013, the NITI Aavog Presentation on Recommendations of the Roadmap (10 Minutes) (erstwhile Planning Commission) Mr Deepak Gupta initiated a stakeholder-driven Senior Program Manager, Power, Shakti Sustainable Energy Foundation analysis of the opportunities and barriers to rapid deployment of Initial Remarks by Panelists Panelists (5 minutes each) renewable electricity in India. Mr Mackay Miller "India's Renewable Entitled Technology Innovation Analyst, National Renewable Energy Laboratory Electricity Roadmap Initiative", the process was facilitated by the NITI Mr Rajat Misra Aayog in conjunction with its role Vice President, SBI Capital Markets Ltd of co-leading the 21st Century Power Partnership (21CPP), a Mr S K Soonee Chief Executive Officer, Power System Operation Corporation Limited (POSOCO) multilateral effort of the Clean Energy Ministerial (CEM). This session will deliberate on the key Mr Sumant Sinha policy interventions of this Founder and Chief Executive Officer, ReNew Power Roadmap Ms Varsha Joshi Join Secretary, Ministry of New & Renewable Energy, Government of India Coordinator: **Dr B S Negi,** Director, Ministry of New & Renewable Energy, Government of India Discussions (30 minutes) 1430 - 1545 Hrs Side Event Introduction by Moderator (5 minutes) Mr Ajay Jain, IAS **Renewable Energy Investments** Secretary, Energy & Infrastructure Investment,

Government of Andhra Pradesh

and Initiatives in Andhra Pradesh

1430 – 1545 Hrs	Venue: Conference Hall No 4 Supporter: New & Renewable Energy Development Corporation Of Andhra Pradesh Ltd (NREDCAP) Supporter: Mr Kamalakar Babu Vice Chairman & Managing Director, New & Renewable Energy Development Corporation of Andhra Pradesh Ltd (NREDCAP) Coordinator: Dr J C Sharma Economic Advisor, Ministry of New and Renewable Energy, Government of India Side Event Investors Meet on Renewable Energy, Punjab (Code: REI/01/03d) Venue: Conference Hall No 3 Coordinator: Dr J C Sharma Economic Advisor, Ministry of New and Renewable Energy, Government of India	Presentation on State Initiatives in Renewable Energy (15 Minutes) Mr N Chandrababu Naidu Hon'ble Chief Minister, Government of Andhra Pradesh Release of (5 minutes) Booklets on Solar & Wind Policies Online Portal on Single Window Clearance Documentary Films on Renewable Energy Initiatives in Andhra Pradesh (5 minutes) Signing of MoU of 10000 MW for Wind & Solar Projects (5 minutes) Discussions with Investors (35 minutes) Opening remarks Sardar Vikram Singh Majithia Hon'ble Minister for New & Renewable Energy, Government of Punjab Discussions
1545 - 1615 Hrs	TEA BREAK	
1615 – 1730 Hrs	Make in India II - Incentivizing Renewable Energy Equipment Manufacturing for Exports (Code: REI/01/03a) Venue: Main Convention Hall Sponsor: Department of Industrial Policy & Promotion Supported By: United Nations Industrial Development Organization Coordinator: Dr D K Khare	Opening Remarks by Chair (5 minutes) Mr Kapil Dev Tripathi Secretary, Department of Public Enterprises, Government of India Remarks by Co-Chair (5 minutes) Mr Alok Srivastava Additional Secretary & CVO, Ministry of Shipping Moderator (5 minutes) Ms Ayumi Fujino Region Head, United Nations Industrial Development Organization Initial Remarks by Panelists (3 minutes each) Mr D V Manjunatha

Director, Ministry of New and Renewable Energy, Government of India Founder and Managing Director, EMMVEE Solar

Mr Gyanesh Chaudhary

Managing Director & Chief Executive Officer, Vikram Solar

Mr H R Gupta

Managing Director, IndoSolar Ltd

Mr Hitesh Doshi

Chairman & Managing Director, Waaree Energies Ltd

Mr Madhusudhan Khemka

Managing Director, ReGen Power

Mr Tulsi Tanti

Chairman and Managing Director, Suzlon Group of Companies

Mr V Saibaba

Chief Executive Officer, Lanco Solar

Mr Zhong Bao Shen

Board Chairman, Xián Longi Silicon Materials Corp

Discussions (30 minutes)

1615 - 1745 Hrs

Parallel Session

Investment Opportunities in Bio-

Energy in India (Code: REI/01/03b)

Venue: Conference Hall No 5

Coordinator: Mr Anil Dhussa

Adviser, Ministry of New and Renewable Energy, Government of

India

Technical Support provided by Green Fed (Indian Federation of

Green Energy)

Opening remarks by Chair (5 minutes)

Dr R K Malhotra

Former Chairman, Indian Oil Corporation Ltd

Remarks by Moderator (5 minutes)

Mr N P Singh

Advisor, Ministry of New & Renewable Energy, Government of India

Presentations (8 minutes each)

Challenges and Opportunities Facing the Bio-fuel Industry

Dr Ajit Sapre

Group President R&T, Reliance Industries Ltd

Leveraging First & Second Generation Ethanol Technologies to Meet India's Ethanol Blending Program of 20 Per Cent

Mr Atul Mulay

Executive Vice President, Praj Industries Ltd

Investment Opportunities in Bagasse Cogeneration in India

Mr Devin Narang

Managing Director, Sindicatum India

India Focused Second Generation Bio-ethanol Production

Mr K Krishan

Chairman, CVC (India) Infrastructure Ltd

Global Scenario for Development of Second Generation Bio-ethanol Beta Renewables Technology

Mr Pierluigi Picciotti

Business Development Director Asia Pacific, Beta Renewables

Investment Opportunities in Biomass Power in India

Mr S Venkatachalam

President, Indian Biomass Power Association

Discussions (30 minutes)

- END OF DAY ONE -

DAY TWO: 16 FEBRUARY 2015: THE ASHOK, NEW DELHI

0930 - 1100 Hrs

Plenary Session

India - The New Investment
Destination for Renewable Energy

(Code: REI/02/01)

Venue: Main Convention Hall, (Parts 1, 2 & 3)

India has one of the largest and most ambitious renewable energy programmes in the world, with a target of 15 per cent generation by 2020. India's major advantages include a solar energy potential of 750 GW and wind energy potential of 100 GW. This, along with the significant reduction over the past decade in the costs of generating renewable energy, has made India a lucrative destination for investment in this sector.

This session will examine the overall renewable potential of the country and discuss various investment opportunities. The session will also deliberate on the key policy interventions needed to catalyse investments.

Coordinator: **Dr N P Singh** Advisor, Ministry of New and Welcome remarks by Moderator (2 minutes)

Dr Satish B Agnihotri

Former Secretary (Coordination), Cabinet Secretariat, Government of India

Opening remarks by Chair (5 minutes)

Mr Piyush Goyal

Hon'ble Minister of State (I/C) for Power, Coal and New & Renewable Energy, Government of India

Special Address (20 minutes)

Mr Michael Bloomberg

UN Secretary-General's Special Envoy for Cities and Climate Change, Founder of Bloomberg L.P., and three-term mayor of New York City

Initial Remarks by Panelists (35 minutes)

Mr Uwe Beckmeyer

Parliamentary State Secretary (Deputy Minister), Federal Ministry of Economics and Energy, Federal Republic of Germany

Baroness Sandip Verma

Minister of Energy & Climate Change, United Kingdom

Mr Adnan Z Amin

Director General, International Renewable Energy Agency

Mr Ajay Shriram

President, Confederation of Indian Industry

Dr Jyotsna Suri

President, Federation of Indian Chambers of Commerce and Industry

Mr Vineet Mittal

	Renewable Energy, Government of India	Co-Founder & Managing Director, Welspun Group Mr Tulsi Tanti Chairman and Managing Director, Suzlon Group of Companies Mr Rana Kapoor Managing Director & Chief Executive Officer, YES Bank Discussions (25 minutes)
1100 – 1130 Hrs	TEA BREAK	
1130 – 1300 Hrs	Showcase of Policy Incentives by States (Code: REI/02/02a) Venue: Main Convention Hall, (Parts 1, 2 & 3) States to make presentations on their policies to attract investments. Sponsor: National Thermal Power Corporation Supported By: PricewaterhouseCoopers Coordinator: Dr J C Sharma Economic Advisor, Ministry of New and Renewable Energy, Government of India	Opening remarks by Chair (5 minutes) Mr Suresh Prabhu Hon'ble Minister of Railways, Government of India Remarks by Moderator (5 minutes Mr RV Shahi Former Secretary, Ministry of Power, Government of India and Chairman, Energy Infratech Pvt Ltd Initial Remarks by Panelists (12 minutes each) Sardar Bikram Singh Majithia Hon'ble Minister for New & Renewable Energy, Government of Punjab Mr Rajendra Shukla Minister for New and Renewable Energy, Madhya Pradesh MrSatyendar Jain Minister of Power, Government of NCT of Delhi Senior Representative from Sponsor to be seated on the dais Discussions (30 minutes)
1130 – 1300 Hrs	Side Event Financing Renewables in India: Equity Perspective (Code: REI/02/02b) • Developer & Investor Perspectives on Equity Funding for Renewable Energy in India • Special Focus – Infrastructure Investment Trusts for Renewable Energy: Replicating	Opening remarks by Chair (5 minutes) Mr L Chuaungo Principal Secretary-Energy, Government of Gujarat Remarks by Moderator (5 minutes) Mr Vikas Dawra Managing Director, Sustainable Investment Banking, YES Bank Initial Remarks by Panelists Mr Don Purka Director-Infrastructure Finance Division 1, Private Sector Operations Department, Asian Development Bank

the YieldCo Model in India

This session is structured as an interactive panel discussion bringing together leading Indian & Global renewable energy developers, financial participants, sector knowledge experts & investors to discuss the key issues & trends related to equity funding for renewable energy.

Venue: Banquet Hall

Sponsor: Welspun Group

Supported By: YES Bank

Coordinator: **Dr R P Goswami**Director, Ministry of New &
Renewable Energy, Government of
India

Dr Darko Hajdukovic

Senior Manager, London Stock Exchange Group

Mr Kerry Adler

Founder, President & Chief Executive Officer, SkyPower Global

Mr Mahesh Kolli

Founder, President & Joint Managing Director, Greenko

Mr Raghuveer Kurada

Managing Director, Global Markets, GE Energy Financial Services

Mr Sanjiv Aggarwal

Partner - Energy, Actis

Ms Sindoor Mittal

Executive Director, Welspun Renewables

Mr Stephen R Gallagher

Managing Director, Wells Fargo Securities

Discussions (30 minutes)

1300 - 1345 Hrs

LUNCH

1345 - 1515 Hrs

Grid Connected Solar Power with Special Emphasis on Rooftop (Code: REI/02/03a)

Venue: Main Convention Hall (Part 1)

This session will evaluate the status of solar power in India and the strategies to scale it up to achieve the 100 GW target by 2020. It will look at policy interventions to provide an impetus to rooftop solar deployment. It will also deliberate on solutions to issues like land availability, grid integration and the effectiveness of existing and new support mechanisms.

Sponsor: GIZ/KfW

Supported By: The Energy and Resource Institute

Opening remarks by Chair (5 minutes)

Mr Ashok Lavasa

Secretary, Ministry of Environment, Forests & Climate Change, Government of India

Remarks by Moderator (5 minutes)

Mr Thorsten Herdan

Directorate-General II Energy Policy, Federal Ministry of Economic Affairs and Energy (BMWi), Germany

Presentations (8 minutes each)

Financing for Solar in India

Ms Claudia Arce

Director (South Asia), KfW Development Bank

Investment Security by High Quality of PV Systems in India

Mr Gerhard Stryi-Hipp

Head of Energy Policy, Fraunhofer Institute for Solar Energy

Grid Integration of Solar Power in India

Mr S K Soonee

Chief Executive Officer, Power System Operation Corporation Limited (POSOCO)

Grid Interactive Solar Power in India – Current Status and Future Outlook

Coordinator: **Dr A K Tripathi**Director, Ministry of New and
Renewable Energy, Government of
India

Mr Tarun Kapoor

Joint Secretary, Ministry of New and Renewable Energy, Government of India

Experience of Investing in and Operating PV Power Plants in India

Mr Vineet Mittal

Co-Founder & Managing Director, Welspun Renewables

Remarks by Panelists (4 minutes each)

Mr João Teixeira Wahnon

Director, Magpower – Soluções de Energia, SA

Mr Ratul Puri

Chairman, Hindustan Power Projects Pvt Ltd

Dr Vatsal Bhatt

Lead-Cities & Neighborhood Development, US Green Building Council

Discussions (30 minutes)

1345 - 1515 Hrs

Financing Renewables: Different Country Experiences (Code: REI/02/03b)

Venue: Main Convention Hall (Part 3)

The Government of India has announced ambitious targets for renewable energy and is committed to ensuring commensurate inflow of capital to achieve them. This session will explore the ways in which countries have facilitated capital flows for renewable energy scale-up, and the different structures that have evolved through increasing comfort levels with technologies and markets.

Discussions will focus on financing mechanisms, taking into account models used in other countries and the required enabling policy frameworks, and extracting key lessons that are most relevant in the Indian context.

Opening remarks by Chair (5 minutes)

Ms Baroness Sandip Verma

Minister of Energy & Climate Change, United Kingdom

Remarks by Moderator (5 minutes)

Mr Yongping Zhai

Director, Energy Division, South Asia Department, Asian Development Bank

Initial Remarks by Panelists (8 minutes each)

Mr Devender Singh

Principal Secretary, Industries, Government of Haryana

Mr Juan Puyol

Export, Trade and Project Finance Manager, Spain Business Overseas

Mr Oliver Griffiths

Head of Government Affairs and Policy, Green Investment Bank

Mr Ravi Kailas

Chairman & Chief Executive Officer, Mytrah Energy Ltd

Mr Utpal Guha

Managing Director, Head of Structured Finance and Corporate Development, Asia-Pacific, SunEdison

Mr Wang Sicheng

Vice Director of the China Renewable Energy Industry Association and Former Senior Scientist at the Energy Research Institute, NDRC

Sponsor: **Asian Development Bank**

Co-Sponsor: British High Commission

Supported By: YES Bank

Coordinator: **Mr C Kanan**Director — Finance, Solar Energ
Corporation of India

Discussions (30 minutes)

1345 - 1515 Hrs

Sustainable Renewable Energy Storage and Renewables Powered Mobility (Code: REI/02/03c)

Venue: Banquet Hall

Higher renewable penetration in end-uses needs solutions to address dispatchability and variability in generation to attain system stability. The drivers of energy storage for renewable energy systems include a) making the grid more efficient, reliable and able to compensate for the variability inherent to wind and solar power; **b)** providing uninterrupted power supply to commercial and industrial sectors that rely on diesel due to regular grid outages; and c) providing economical options for renewable energy-based micro-grids to meet the lighting and productive energy requirements of the National Electric Mobility Mission plan that seeks to support 7 million electric and hybrid vehicles by 2020.

Greater use of storage will help the transition from centralised to distributed generation and improve energy access and availability, security, quality and efficiency.

This session will evaluate storage technologies and their challenges, the current status of deployment in

Opening remarks by Chair (5 minutes)

Mr Ambuj Sharma

Additional Secretary, Department of Heavy Industries and Public Enterprises, Government of India

Remarks by Moderator (5 minutes)

Mr Tobias Engelmeier

Director & Founder, Bridge to India

Presentations (6 minutes each)

Electric Mobility in the Context of Renewable Power in India

Mr Ambuj Sharma

Additional Secretary, Department of Heavy Industries and Public Enterprises, Government of India

India-focused Storage Applications and Business Models for Rapid Business and Market Growth

Ms Bridgit Hartland Johnson

General Manager, Siemens

Mr Hideaki Nakahata

Senior Manager, Power System R&D Center leader, Sumitomo Electric Industries Ltd

Existing and Future Market Perspective on Renewable Energy Storage

Dr Rahul Walawalkar

Executive Director, India Energy Storage Alliance

Energy Storage for Electric Vehicles

Mr Takeshi Miyamoto

Expert Leader, EV Engine Development Department, Nissan

Remarks by Panelists (5 minutes each)

Mr Kerry Adler

Founder, President & Chief Executive Officer, SkyPower Global

Mr Rajsekhar Budhavarapu

Chief Technology Officer, IL&FS Energy Development Company Ltd

Mr Vinod Kala

	India, and suggest the way forward.	Lead RE Consultant, USAID PACE-D TA Program and Founder & Managing Director, Emergent Ventures India
	Sponsor: New Energy and Industrial Technology Development, Japan	Discussions (30 minutes)
	Supported By: Bridge To India , India Energy Storage Alliance	
	Coordinator: Dr P C Maithani Director, Ministry of New and Renewable Energy, Government of India	
1345 – 1515 Hrs	Side Event India Clean Energy Finance Forum Part I (Code: REI/02/03d)	This will be a discussion among multilateral/bilateral agencies and Indian stakeholders including the private sector on how to propel investments into the Indian renewable sector
	Venue: Room No 294, 2 nd Floor	CLOSED DOOR SESSION: BY INVITATION ONLY
	Sponsors: Ministry of New & Renewable Energy, World Bank, US Embassy	
	Organisers: Mr Dave Williams , US Embassy; Ms Mohua Mukherjee , World Bank	
	Coordinator: Mr V K Jain, Director Ministry of New & Renewable Energy, Government of India	
1515 - 1545 Hrs	TEA BREAK	
1545 – 1715 Hrs	Showcase of Policy Incentives by States (Code: REI/02/04a)	Opening remarks by Chair (5 minutes) Mr Piyush Goyal Hon'ble Minister of State (I/C) for Power, Coal and New & Renewable Energy, Government of India
	Venue: Main Convention Hall, (Parts 1, 2 & 3)	Remarks by Moderator (5 minutes) Mr Anil Razdan
	States to make presentations on their policies to attract	Former Secretary, Ministry of Power, Government of India
	investments.	Initial Remarks by Panelists (12 minutes each)
	Sponsor: Coal India Ltd	Mr Aryadan Muhammad Minister for Electricity and Transport, Government of Kerala
	Supported By: PricewaterhouseCoopers	Mr Manish Gupta Minister for Power and Non-conventional Energy Sources, Government of West Bengal

	Coordinator: Dr J C Sharma Economic Advisor, Ministry of New and Renewable Energy, Government of India	Mr Pushpendra Singh Minister of State (Energy) Government of Rajasthan Mr Yasar Shah Minister for State, Energy Department, Uttar Pradesh Senior Representative of sponsor to be seated on the dais Discussions (30 minutes)
1545 – 1700 Hrs	Side Event India Clean Energy Finance Forum Part II (Code: REI/02/04b) Venue: Room No 294 2 nd Floor Sponsor: United States Agency for International Development Sponsors: Ministry of New & Renewable Energy, World Bank, US Embassy Organisers: Mr Dave Williams, US Embassy; Ms Mohua Mukherjee, World Bank Coordinator: Mr V K Jain, Director Ministry of New & Renewable Energy, Government of India	This will be a discussion among multilateral/bilateral agencies and Indian stakeholders including the private sector on how to propel investments into the Indian renewable sector CLOSED DOOR SESSION: BY INVITATION ONLY
1545 – 1700 Hrs	Side Event Investment Opportunities in the Small Hydro (Code: REI/02/04c) Venue: Banquet Hall Coordinator: Dr P Saxena Advisor, Ministry of New and Renewable Energy, Government of India	Opening remarks by Chair (5 minutes) Mr R V Shahi Former Secretary, Ministry of Power, Government of India and Chairman, Energy Infratech Pvt Ltd Moderator (5 minutes) Dr Arun Kumar Chair Professor, Indian Institute of Technology, Roorkee Initial Remarks by Panelists (5 minutes each) An Overview of Small Hydro in India – Investment Opportunities Dr P Saxena Advisor, Ministry of New & Renewable Energy, Government of India Emerging Financing Options in Small Hydro Mr Anand Kumar Director, dhc Baker Tilly International

Small Hydro Developers' Perspective Towards Investment in the Sector

Mr Arun Sharma

Past President, Indian Small Hydro Developers Association

Opportunities in Micro Hydro for Village Electrification

Ms Shaifali Sharma

Micro Hydro Business Development Expert, United Nations Industrial Development Organization

Mr Kashinath Vajpai

Renewable and Rural Energy Unit, Energy and Climate Change Branch, United Nations Industrial Development Organization

Steps to Improve Investment Climate in Small Hydro

Mr Lars Ellegard

Country Head & MD, International Hydro, India Statkraft, Norway

Recent Trends in Low Head and Pipe Turbine Development

Mr Uday Bhende

Head - Hydro Business, and EVP, Kirloskar Integrated Technologies Ltd

Opportunities in developing small hydro in Uttarakhand

Mr Uma Kant Panwar

Secretary Energy, Government of Uttarakhand

Discussions (30 minutes)

- END OF DAY TWO -

DAY THREE: 17 FEBRUARY 2015: THE ASHOK, NEW DELHI

1000 - 1130 Hrs

Innovative Financing Models (Code: REI/03/01a)

Venue: Main Convention Hall (Part 1)

This session will evaluate various financing models and instruments and look at the profitability or rate of return that renewable energy projects can offer to the developers. It will also deliberate on issues like the lack of affordable financing which is inhibiting the wider realization of renewable energy projects and explore options to alleviate these.

Opening remarks by Chair (5 minutes)

Mr R N Choubey

Special Secretary, Ministry of Power, Government of India

Remarks by Moderator (5 minutes)

Ms Mohua Mukherjee

Senior Energy Specialist, World Bank

Initial Remarks by Panelists (8 minutes each)

Mr Colin Dreizin

Director, Clean Energy and Environment Officer, United States Agency for International Development

Ms Elisa Prieto

Director of Strategy for Abengoa Solar

Mr Gaetan Tiberghien

Principal Investment Officer, International Financial Corporation Sponsor: World Bank Ms Laura Tlaive Sustainability Advisor-Capital Markets, Department, World Bank Treasury Supported By: **United States** Agency for International Development Mr Michael T Eckhart Managing Director - Global Head, Environmental Finance, Citibank Coordinator: Mr V K Jain Director, Ministry of New and Mr S B Nayar Renewable Energy, Government of Chairman & Managing Director, India Infrastructure Finance Company Ltd India Mr Stephan Yao Chief Communications Officer, United PV Discussions (30 minutes) 1000 - 1130 Hrs Opening remarks by Chair & Moderator (5 minutes) **Grid Connected Wind Power With** Mr Steve Sawyer Focus on Offshore (Code: Secretary General, Global Wind Energy Council REI/03/01b) Initial Remarks by Panelists (8 minutes each) **Venue: Main Convention Hall (Part** Mr Allan MacAskill Director, MacAskill & Associates & Director, Pilot Offshore Renewables This session will discuss the progress made in the wind power Mr Andy Oldroyd Technical Director & Co-Founder, Oldbaum Services Ltd installations manufacturing. It will also evaluate Mr Charles Yates, FRSA the prospects of new technology Managing Director, CmY Consultants Ltd solutions like offshore wind and wind Mr Huub Den Rooiien development can be accelerated. Head - Offshore Wind, Crown Estate Sponsors: **Government of United** Dr Mark Levbourne Kingdom in partnership with the Senior Engineer, IT Power, United Kingdom **Delegation of European Union in** India Mr Norbert Giese Vice President, Agency and Government Relations, Senvion Wind Energy Solutions Supported By: IT Power, Suzlon Group Ms Varsha Joshi Joint Secretary, Ministry of New & Renewable Energy, Government of India Coordinator: Mr G Upadhyay Director, Ministry of New and Renewable Energy, Government of Discussions (30 minutes) India 1000 - 1130 Hrs Approaches to Tackling High Cost Opening remarks by Chair & Moderator (5 minutes) of Capital in Renewable Energy Dr Henning Wuester Financing (Code: REI/03/01c) Director, Knowledge, Policy, Finance Centre, International Renewable Energy Agency

Venue: Room No 294, 2nd Floor

IRENA aims to bring together key stakeholders (financial experts, entrepreneurs, project developers, international financial institutions, investors, and thought leaders) from the public and private sectors to India, to share their experience in financing renewable projects from different countries and to discuss how the lessons learned can be applied in the Indian context.

Participants will discuss financing issues such as currency hedging costs and explore various policy and financial approaches to effectively lower the high cost of capital for renewable energy projects. The session will help identify priority areas and potential partnerships for IRENA's forthcoming activities to de-risk renewable energy investments and support countries in dealing with key barriers.

Sponsor: International Renewable Energy Agency

Coordinator: **Dr D K Khare**Director, Ministry of New and
Renewable Energy, Government of
India

Presentation on Renewable Energy Financing Barriers and Potential Risk Mitigation Instruments (10 minutes each)

Prof Tom Heller

Executive Director, Climate Policy Initiative

Initial Remarks by Panelists (5 minutes each)

Mr Bhaswar Chatterjee

Head – Infrastructure & Energy Finance, Americas, Deutsche Bank

Mr Brooks Preston

Vice President of Investment Funds, Overseas Private Investment Corporation

Dr Darko Hajdukovic

Senior Manager, London Stock Exchange Group

Mr Don Purka

Director, Infrastructure Finance Division 1, Private Sector Operations Department, Asian Development Bank

Mr Mayank Choudhary

Head of Corporate Finance and M&A, Greenko

Mr Sanjay Palve

Senior Group President & Senior Managing Director -Wholesale Banking Government Relationship Management & Food and Agribusiness, Research Management, Yes Bank

Mr Soumen Bagchi

Joint Secretary (ES & ITP), Ministry of External Affairs, Government of India

Mr Vikram Kailas

Managing Director, Mytrah Energy Ltd

Discussions (30 minutes)

1000 - 1130 Hrs

CEOs Roundtable (Code: REI/03/01d)

Venue: Banquet Hall

25 – 30 CEOs

BY INVITATION ONLY

Supporter:

PricewaterhouseCoopers

Opening remarks by Chair

Mr Pivush Goval

Hon'ble Minister of State (I/C) for Power, Coal and New & Renewable Energy, Government of India Address

Mr P K Sinha

Secretary, Ministry of Power, Government of India

Mr Upendra Tripathy

Secretary, Ministry of New & Renewable Energy, Government of India

1130 – 1200 Hrs	Coordinator: Mr Ruchin Gupta Deputy Secretary Ministry of New and Renewable Energy, Government of India TEA BREAK	Mr Amitabh Kant Secretary, Department of Industrial Policy and Promotion, Government of India Discussions (30 minutes)
1200 – 1330 Hrs	Showcase of Policy Incentives by States (Code: REI/03/02a) Venue: Main Convention Hall, (Parts 1, 2 & 3) States to make presentations on their policies to attract investments. Supported By: PricewaterhouseCoopers Coordinator: Dr J C Sharma Economic Advisor, Ministry of New and Renewable Energy, Government of India	Opening Remarks by Chair (5 minutes) Mr M Venkaiah Naidu Union Minister of Urban Development, Government of India Remarks by Moderator (5 minutes) Mr Pramod Deo Former Chairperson, Central Electricity Regulatory Commission Initial Remarks by Panelists (12 minutes each) Mr D K Shivakumar Minister for Energy, Karnataka Mr Natham R Vishwanathan Minister for Electricity, Prohibition and Excise, Tamil Nadu Mr Sudin Dhavalikar Minister for Non-Conventional Energy, Goa Mr Sujan Singh Pathania Minister for Power, Himachal Pradesh Discussions (30 minutes)
1200 – 1330 Hrs	Side Event Financing Challenges for Small and Medium-scale Renewable Energy Projects – Approaches for the Private Sector (Code: REI/03/02b) Venue: Room No 294, 2 nd Floor This session will focus on financing frameworks for private or community-led enterprises and for public rural electrification programmes. Given the magnitude of the challenges in access to finance and the diverse financing approaches prevalent in the region,	Opening Remarks by Chair (5 minutes) Dr Henning Wuester Director - Knowledge, Policy, Finance Centre, International Renewable Energy Agency Remarks by Moderator (5 minutes) Dr Arunabha Ghosh Chief Executive Officer, Council on Energy Environment and Water Initial Remarks by Panelists (9 minutes each) Mr Ardeshir Contractor Managing Director, Kiran Energy Mr Dipal Chandra Barua Chairman & Chief Executive Officer, Bright Green Energy Foundation Mr Probir Ghosh Chief Executive Officer, CASE Bharat

this session aims to bring forward the various perspectives on how these challenges can be addressed.

Discussions will focus on successful cases and financial approaches for different scales of renewable energy projects and explore effective ways to diversify risks and address the issue of high transaction cost. Outcomes from the session will support IRENA in obtaining valuable feedback in its efforts to further strengthen its engagement with India.

Sponsor: International Renewable Energy Agency

Coordinator: **Dr D K Khare**Director, Ministry of New and
Renewable Energy, Government of
India

Mr Shyam Menon

Investment Director, INFUSE Ventures

Mr Upendra Bhatt

Managing Director, cKinetics

Discussions (30 minutes)

1200 - 1330 Hrs

Side Event

Offshore Wind (Code: REI/03/02c)

Venue: Banquet Hall

This structured discussion on offshore wind power development will aim to provide an opportunity to members of the proposed Joint Venture Company (JVC) comprising of Public Sector Enterprises to learn from the experiences of international experts. Aspects such as turbine technology, evacuation infrastructure, studies & surveys, cost economics, power pricing and logistics will be discussed. Members of the proposed JVC will have an opportunity to ask one question each on offshore wind power development, preferably related to their role in the JVC. Around 6-7 broad questions are proposed to be taken up. Question-

Opening Remarks by Chair & Moderator (5 minutes)

Ms Varsha Joshi

Joint Secretary, Ministry of New and Renewable Energy, Government of India

Initial Remarks by Panelists

Mr Allan MacAskill

Director, MacAskill & Associates

Mr Andy Oldroyd

Technical Director & Co-Founder, Oldbaum Services Ltd

Mr Andrew Kerfoot

Senior Engineer, Offshore Wind Turbine, Gamesa/Areva Wind JV

Mr Bimlesh Shah

Head (Offshore), Suzlon Energy Limited

Mr Charles Yates, FRSA

Managing Director, Cmy Consultants Ltd

Mr Chris Garrett

Senior Offshore Wind Farm Engineer, Renewable Energy Services, DNV GL

Mr Huub Den Rooijen

Hour round will be followed by an Open House.

Head, Offshore Wind, The Crown Estate

Sponsors: Government of United Kingdom in partnership with the **Delegation of European Union in** India

Mr Mark Leybourne

Senior Engineer, IT Power, United Kingdom

Mr Norbert Giese

Vice President, Agency and Government Relations, Senvion Wind Energy Solutions

Supported By: IT Power, Suzion Group

Mr Richard den Hollander

Business Development Director, Seaway Heavy Lifting

Coordinator: Mr G Upadhyay, Director, Ministry of New and Renewable Energy, Government of India

Dr S Gomathinavagam

Director General, National Institute of Wind Energy

Mr Soumyajyoti Basu

Manager, Industrial Cooperation & Development, DCNS Group

Mr Steve Sawyer

Secretary General, Global Wind Energy Council

Mr V P Sharma

President & Chief Executive Officer (Offshore Dept), Punj Lloyd Ltd

Invitees: Representatives from members of JV Company for offshore wind power development

Discussions (30 minutes)

1330 - 1430 Hrs

LUNCH

1430 - 1600 Hrs

Decentralised Energy Solutions (Code: REI/03/03a)

Opening Remarks by Chair (5 minutes)

Mr Jaco Cilliers

Resident Representative, United Nations Development Programme India

Venue: Main Convention Hall (Part 1)

This session will discuss off-grid

Remarks by Moderator (5 minutes) Mr Rohit Kansal

Divisional Commissioner, Ladakh and Kargil

Presentations/Initial Remarks by Panelists (6 minutes each)

potential and opportunities, with case examples from across the world. It will evaluate requirements like financing mechanisms, technology transfer, and fasttracking policies in India, and

discuss resolutions to these. This

session will also examine various business models that could be

deployed to provide decentralised

Market for Solar Energy Solutions for Off-grid Electricity: Scope, Experiences and Constraints in Various

Mr Alakesh Chetia

President, Social Innovation, SunEdison Inc.

Investment Opportunities in Production of Bio-CNG in India

Dr A V Mohan Rao

Chairman, Spectrum Renewable Energy Pvt Ltd

Mr Gagan Pal

Countries

energy solutions.

The session will cover three thematic sectors: solar thermal, modern biomass energy systems, and off-grid electricity. Solar heaters for low heat applications, solar concentrators for medium temperature applications and solar cookers for cooking applications. Biomass energy systems will focus on applications like cook-stoves, biomass gasifiers and biogas for Off-grid applications. heat electricity will cover power from micro-hydro, etc.

Sponsor: United Nations
Development Programme

Coordinator: **Dr O S Sastry**Director, National Institute of Solar
Energy

1430 – 1600 Hrs Smart Grids in India - Roadmap for Rollout (Code: REI/03/03b)

Venue: Main Convention Hall (Part 3)

This session will evaluate the strategies being used for smart grid implementation across the world, covering policy and financing mechanisms, and deliberate on the best solutions that can be adopted by India's power sector to implement smart grids in the country. It will discuss how challenges like renewable power integration can be addressed for effective use of smart grids.

Coordinator: Dr P C Maithani

Vice President, Tata Power Solar

Experiences in Solar Water Heater Markets in Europe and scope for collaboration with India for accelerating market

Dr Gerhard Stryi-Hipp

Head of Energy Policy, Fraunhofer Institute for Solar Energy

Best practices, business models for marketing biomass cook-stoves and scope for India

Dr Ronal W Larson

Aprovecho Centre, USA

Investment Potential and Barriers for Off-grid Electricity Systems in India

Mr Paul Needham

President & Co-founder, Simpa Networks

Investment potential for solar thermal and solar decentralised electricity in India

Mr Sameer Maithal

Director, Greentech Knowledge Solutions Pvt Ltd, India

Mr Anand Kumar

Vice President – KW & MW Sales, Waree Energies Ltd

Launch of Report (5 minutes)

"The Business Case for Off-Grid Energy Use in India" by The Climate Group and Goldman Sachs (India) Securities Pvt Ltd."

Discussions (30 minutes)

Opening Remarks by Chair (5 minutes)

Dr P K Mishra*

Additional Principal Secretary to the Prime Minister

Remarks by Co-Chair (5 minutes)

Mr Devendra Chaudhary

Additional Secretary, Ministry of Power, Government of India

Remarks by Moderator (5 minutes)

Prof Rahul Tongia

Fellow, Brookings India, and Technical Advisor, India Smart Grid Task Force

Presentations (7 minutes each)

Smart Grid in India - Government of India Programme and Policies

Mr B N Sharma

Joint Secretary, Ministry of Power, Government of India

Rooftop PV integration: Practices and Lessons Learnt in Italy

Mr Francesco Marini

Director, Ministry of New and Renewable Energy, Government of India Head-Asia and Oceania, Enel Group

Grid Integration of Renewable Energy – Roadmap for 85 Per Cent RE on US Grids by 2050

Mr Mackay Miller

Technology Innovation Analyst, National Renewable Energy Laboratory

Solar and Renewable Integration with Smart Grid

Prof Rajit Gadh

Director, UCLA Smart Grid Research Centre

Existing and Future Market Perspective of Smart Grid for Renewable Power Integration

Dr Reji Pillai

President, India Smart Grid Forum

'Smart Line' Concept Enabling Smarter Grid

Mr Siraj Bhattacharya

Head, Technical Marketing, Sterlite Technologies Ltd

Discussions (30 minutes)

1430 - 1600 Hrs

New & Emerging Technologies (Code: REI/03/03c)

Venue: Room No 294, 2nd Floor

This session will discuss some of the new and emerging technologies in renewable energy, their maturity levels and global experiences, their potential for India and a possible roadmap to adopt the technologies in an economically viable manner.

The session would also deliberate on some global best practices in financing new technologies and the institutional support required to promote their deployment.

Sponsor: Indian Renewable Energy Development Agency

Supported By: YES Bank

Coordinator: **Dr P Dhamija**Director, Ministry of New and
Renewable Energy, Government of
India

Opening Remarks by Chair (5 minutes)

Dr Anil K Dhussa

Adviser, Ministry of New and Renewable Energy, Government of India

Remarks by Moderator (5 minutes)

Dr P Dhamija

Director, Ministry of New & Renewable Energy, Government of India

Initial Remarks by Panelists (8 minutes each)

Mr Bas Melssen

Head of Biomass Conversion for Asia Pacific, Novozymes

Mr Benedikt Hoskuldsson

Director - Natural Resources, Environmental and Energy Affairs, Ministry for Foreign Affairs, Iceland

Dr Carsten Corino

Founder, SunOyster Systems Gmbh

Dr Kunal Upadhyay

Chief Executive, Infuse Ventures, CIIE, Indian Institute of Management, Ahmedabad

Mr Reto Thoenen

Senior Energy Expert - Global Programme Climate Change, Swiss Agency for Development and Cooperation

Mr Roshan Revankar

Manager, International Ground Source Heat Pump Association

Discussions (30 minutes) 1430 - 1600 Hrs Side Event Opening Remarks by Chair & Moderator (5 minutes) Onshore Wind (Code: REI/03/03d) Mr V Subramanian Former Secretary, Ministry of New and Renewable Energy, Government of India and Chief Executive Officer & Chairman, Indian Wind Energy Association Venue: Banquet Hall **Initial Remarks by Panelists** structured, theme-based discussion on the currently most Dr S Gomathinavagam relevant issues for achieving the Director General, Sardar Swaran Singh National Institute of Renewable Energy revised target of 60 GW wind power by 2022. Each theme would Mr Steve Sawyer comprise brief inputs from the Secretary General, Global Wind Energy Council major participants followed by open discussions. Ms Varsha Joshi Joint Secretary, Ministry of New & Renewable Energy, Government of India Sponsor: Indian Wind Turbine **Manufacturers Association Grid Integration Issues** Coordinator: **Dr Dilip Nigam** Mr I S Jha Director, Ministry of New and Director (Projects), Power Grid Corporation of India Ltd Renewable Energy, Government of India Mr Jami Hussain Chief Mentor & Co-founder, Wind Force Management Services Pvt Ltd Mr S.K.Negi Managing Director, Gujarat Energy Transmission Corporation Ltd Mr Sushanta Chatterjee Joint Chief (Regulatory Affairs), Central Electricity Regulatory Commission Mr V K Agrawal Chief Executive Officer, Power System Operation Corporation (POSOCO) **Manufacturing Issues** Mr Chintan Shah President, Suzlon Energy Mr Jorn Hammer Country Head, Vestas Mr Madhusudan Khemka President, Indian Wind Turbine Manufacturers Association Mr Rakesh Bakshi Managing Director, RRB Energy Ltd

1430 – 1600 Hrs	BUSINESS-TO-BUSINESS (B2B) MEETI	Mr Mahesh Makhija Director - Business Development, China Light Power (CLP) Group Mr Sumant Sinha President, Indian Wind Energy Association Mr U B Reddy Managing Director, Enerfra Projects (India) Pvt Ltd Financing Issues Mr K S Popli Chairman & Managing Director, Indian Renewable Energy Development Agency Mr Rajat Misra Vice President, SBI Capital Markets Ltd Discussions (30 minutes)
1600 - 1630 Hrs	TEA BREAK	
1630 – 1730 Hrs	Valedictory Session (Code: REI/03/04) Venue: Main Convention Hall, (Parts 1, 2 & 3) To be chaired by Mr Arun Jaitley, Hon'ble Union Minister of Finance, Government of India Coordinator: Ms Varsha Joshi, Joint Secretary, Ministry of New & Renewable Energy, Government of India Technical support for Outcome Statement to be provided by PwC	Opening Remarks Mr Piyush Goyal Hon'ble Minister of State (I/C) for Power, Coal and New & Renewable Energy, Government of India Presentation of Commitments by Investors and Banks On the Dias Mr Deepak Dasgupta Board Member, Green Climate Fund Mr Arvind Subramanian Chief Economic Adviser to Government of India Mr Jayant Sinha Hon'ble Minister of State for Finance, Government of India Mr Prakash Javadekar Hon'ble Minister of State (I/C) Environment, Forest & Climate Change, Government of India Addresses Mr Arvind Panagariya

Vice Chairman, National Institution for Transforming India (NITI) Aayog, Government of India

Mr Suresh Prabhu

Hon'ble Union Minister of Railways, Government of India

Mr Arun Jaitley

Hon'ble Union Minister of Finance, Government of India

Mr Upendra Tripathy

Secretary, Ministry of New & Renewable Energy, Government of India

Outcome Statement & Vote of Thanks

Mr Upendra Tripathy

Secretary, Ministry of New & Renewable Energy, Government of India

- END OF CONFERENCE -

* TO BE CONFIRMED

Technical Support provided by Green Fed (Indian Federation of Green Energy) for post session outcomes

Conference organizing committee chaired by Mr Upendra Tripathy, Secretary, Ministry of New & Renewable Energy, coordinated by Mr Tarun Kapoor, Joint Secretary, Ministry of New & Renewable Energy, Government of India and managed by Ms Soma Banerjee, Principal-Energy & Infrastructure, Confederation of India Industry