

Introduction to The Climate Technology Initiative's Private Financing Advisory Network - CTI PFAN -

UNFCCC Asia Pacific Regional Workshop Preparing TT Projects for Financing

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INTRODUCTION TO PPL



- ☐ Financing Arranger / Advisor
 - Structured Finance / Project Finance
- Exclusively for Developing Countries & Transition Economies
- ☐ Special Focus on Clean / Renewable Energy Projects
 - other areas of know how (Infrastructure)
- □ Privately Owned / Independent
 - Holding Co & Headquarters in Cyprus / Offices in Johannesburg & Kiev
 - Activities: Africa, Asia, CIS
- ☐ Involvement with CTI / UNFCCC since 2004
 - Founder Member & Global Coordinator of CTI PFAN
- ☐ More Info @ www.ppl-int.com



INTRODUCTION TO CTI

- □ Implementing Agreement under the IEA in support of UNFCCC Objectives. Currently 11 Member Countries:
 - Austria, Australia, Canada, Finland, Germany, Japan, Norway, South Korea, Sweden (Chair), UK & US
- □ To promote more rapid development and diffusion of climate friendly and environmentally sound technologies through multilateral and international cooperation between the public and private sectors and between OECD Countries and Non-OECD Countries
- ☐ CTI works with
 - Governments
 - IEA & UNFCCC Secretariats
 - Export Group on Technology Transfer (EGTT / UNFCCC)
 - International Organisations (WB / UNDP / UNEP / UNIDO)
 - Business & Financial Sectors



RATIONALE FOR CTI PFAN

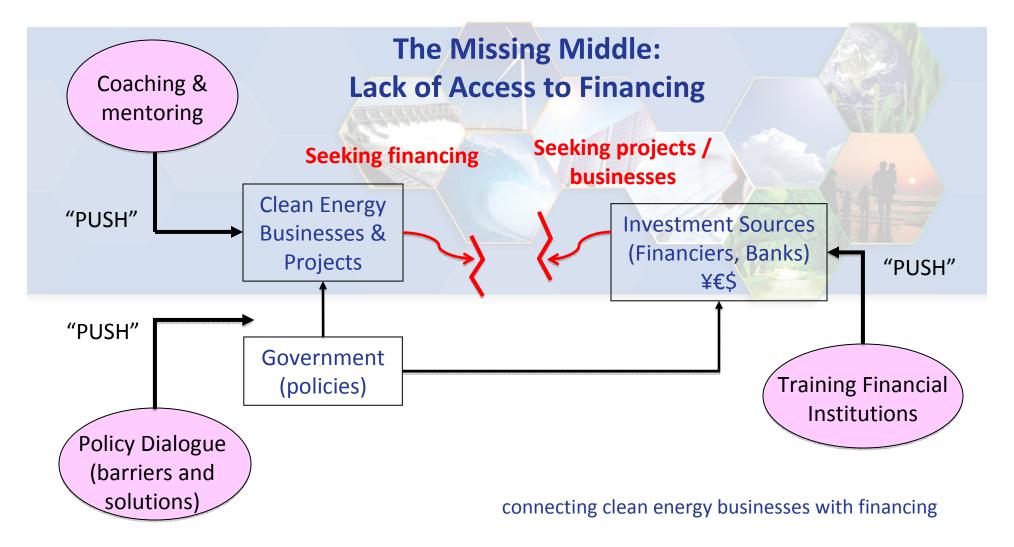
- ☐ Lack of sufficient Public Funds to make an impact on Technology Transfer for Climate Change
 - Need for the Private Sector
- ☐ Workshops in Montreal (2004) & Bonn (2005)
 - To develop an innovative solution to finance TT
 - Inclusion of Private Sector
- Missing Middle
 - Lots of Projects / Lots of Investment
 - Little & insufficient interaction & communication between the 2 sides
- ☐ PFAN seeks to bridge that Investment Gap
 - Acts as a broker between the money and the projects
 - Strengthens the capacity of the project developers to present their projects in a way that investors and financiers can readily understand

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CTI PFAN – Integrated Programme Design

How a multi-pronged approach can scale up clean energy deployment





WHAT IS CTI PFAN?

- ☐ CTI PFAN is a Multi-Lateral Initiative:
 - CTI Countries / APP / ICETT / REEEP / USAID
- ☐ CTI PFAN goals:
 - to accelerate technology transfer and diffusion under the UNFCCC
 - to reduce GHG
 - to promote low-carbon, sustainable economic development
 - to increase financing opportunities for promising clean energy projects
- ☐ Connects CE projects with Investors / Financing
 - Real projects on the ground making a real impact
- Network of Private Sector Professionals
 - Investors / Consultants
 - Developing Country experience & appetite
 - Over 40 full members & growing fast
 - Large database of investors > 100
- ☐ Triple bottom line approach

CTI PFAN'S FUNDING PARTNERS









renewable energy & energy efficiency partnership





CTI PFAN NETWORK MEMBERS









Management Consultant Regulatory Economics &

































WHAT SERVICES DOES CTI PFAN OFFER?

- □ CTI PFAN provides support & advice to selected projects to help them meet the criteria of the Investment Community
- ☐ <u>Free</u> coaching service to project sponsors & developers to help them raise pivate sector finance
 - Project Development / Commercial & Financing Structure
 - Marketing / Technical Issues / Growth Strategy
 - Preparation of Business Plans, Investment & Financing Proposals
 - Sourcing Equity & Debt
- □ Technical Assistance
 - Contributions to the cost of technical studies etc
- Matchmaking Service: Contact Broking & Introductions
- □ Investment / Financing directly from PFAN Members & their Networks



HOW DOES IT WORK?

- ☐ 2 Entry Points
- ☐ Unsolicited Proposal Submission for Development Pipeline
 - From any source
 - Induction Review: rigourous but non-bureaucratic
 - PFAN Member assigned to project as dedicated Coach
 - 3 Phase Development Framework
 - > Preparation of the BP
 - > Introduction to Investors
 - Guidance to Investability & Financial Closing
- Regional & Country based CE Financing Forums
 - RFP project selection
 - Intensive Coaching on Business Plan & Investor Pitch
 - Showcasing in front of Investors at Forum
 - Projects inducted into Development Pipeline

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COSTS

- PFAN Services are provided free to the project developer / sponsor
 - Subject to selection
- Cost of providing the PFAN Services is absorbed by the Funding Partners (CTI / USAID / APP / ICETT / REEEP etc).
- Provision of services subsidised by the PFAN Members
 - Trade-off: access to the project pipeline for business development
 - Right of First Offer to provide services / financing (non-binding & fully competitive terms)
- □ Success Fee on Financial Closing
 - Shared between PFAN and the involved PFAN Consultant according to an agreed schedule



PROJECT CRITERIA

- ☐ Target Project Size: USD 1 50 million total investment volume
 - Smaller & larger projects possible
 - Ca 15% of portfolio for Micro-Projects (< USD 1 million)
- ☐ Typical Project Type: CE / RE mitigation projects for generation of power or production of biofuels
 - Wind, Solar, Geothermal, Biomass, Biofuels, Small Hydro
 - PFAN is technology neutral
 - EE / Adaptation / Forestry / Upstream Technology Dvpt Projects
- ☐ Commercial & Technical Viability
 - Adequate return on investment
- ☐ GHG reduction / abatement potential
- ☐ Other developmental benefits
 - MDGs: agricultural development, poverty reduction, health, education, female econonic participation etc

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EVOLUTION OF CTI PFAN

- ☐ Apr 2006 Sep 2008: Small Scale Pilot Program
 - 3 Financial Closings raising USD 40 million
- □ Dec 2007: recognition / endorsement by COP 13 decisions
 - (4 / CP.13)
- ☐ Oct 2008: Start of Major Scale-Up Programme
 - Funding from CTI / USAID / APP / REEEP / ICETT
 - Multi-year programme to end of 2012 / now extended to end of 2013
- ☐ Global Coverage
 - 4 regional networks: Latin America, Africa, Asia, CIS



NETWORK OVERVIEW

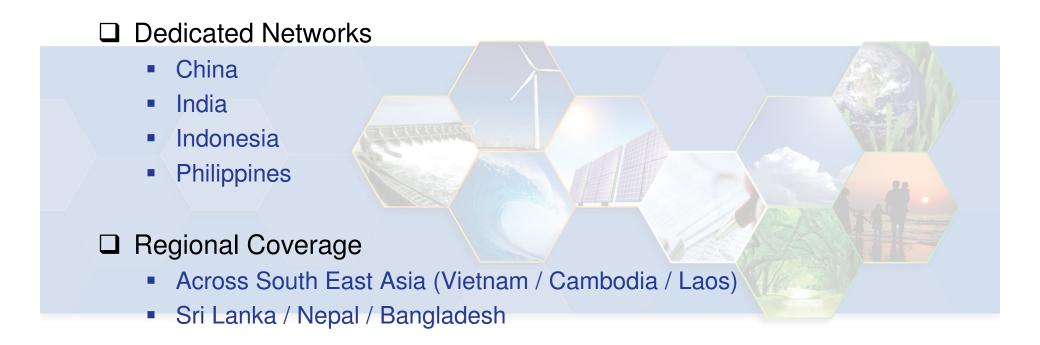
- ☐ Latin America & Caribbean Regional Network
 - Dedicated Coverage in Brazil, Chile, Columbia, Mexico
 - All other countries in the region eligible
 - 11 Projects in Pipeline / USD 132 million investment volume
 - USD 35 million raised / 2 project closed
 - Brazil CE Financing Forum / Caribbean SIDs during 2011
- □ Africa Regional Network
 - Dedicated Country Networks in Mozambique, Uganda and South Africa
 - Transfer Project from Brazil to Mozambique: solar hydroponics
 - 30 Projects in the Development Pipeline \$ 127 million
 - USD 8 million investment raised / 2 projects closed
 - Africa Regional CE Financing Forum (Sep 2010)

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NETWORK OVERVIEW

- Asia



☐ 69 Projects in Development Pipeline



Activity Highlights 2010

- ☐ Launch of India Network & Activities
- ☐ 6 CE Financing Fora
 - AFCEF 2 / Philippines / Indonesia / China / Africa / India
 - 264 Projects identified
 - 56 projects showcased / 42 for longer term development
 - 1100 participants
- ☐ Establishment of in-country Networks in Mozambique, Uganda & South Africa
 - Base for regional & sub regional African networks
- ☐ 11 New Projects reaching Financial Closure
 - USD 111 million of new investment raised / leveraged



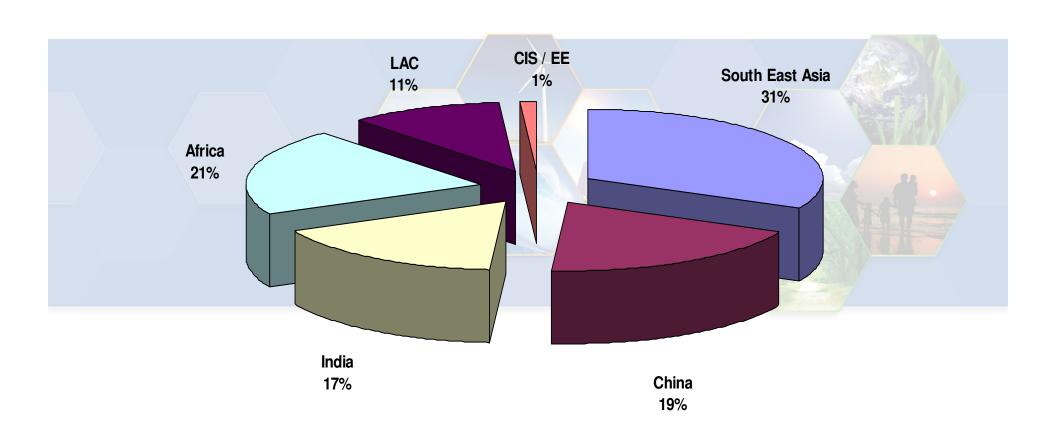
Development Pipeline Summary

- ☐ 101 projects
 - 63 projects in process of induction during Q4 2010
 - 40 50 less mature projects undergoing longer term development for pipeline induction
- □ USD 2,4 billion of total aggregate investment

□ > 4,6 million tonnes CO2 e reduction potential pa

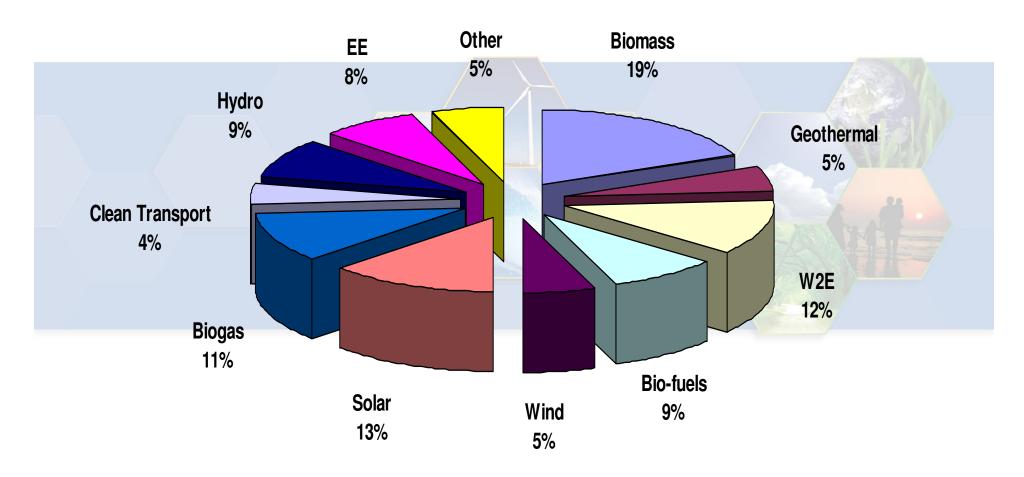


Pipeline Analysis by Region





Pipeline Analysis by Technology



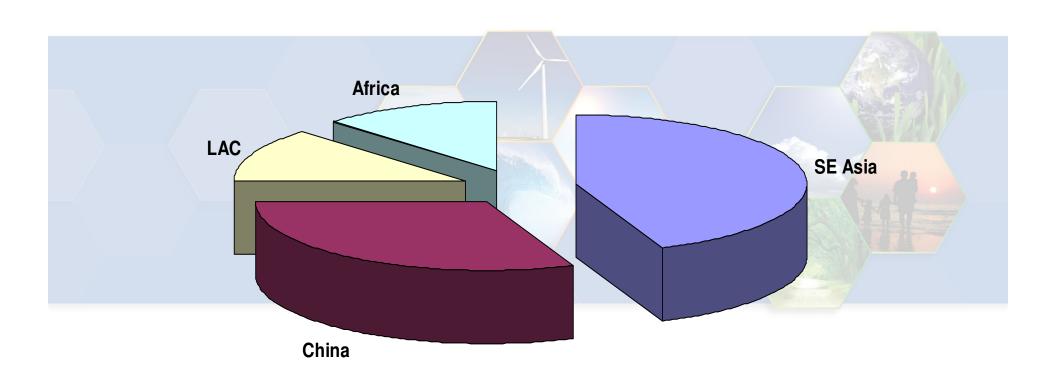


Closed Projects

- ☐ 11 New Projects Closed in last 6 months
 - USD 111 million of Investment Raised
- ☐ 16 Projects Closed in Total
 - USD 184 million of Investment in Total
 - 68,4 MW of Clean Capacity Installed
 - 1,16 million tonnes CO2 e reduction pa
 - 61,3 GWhrs pa Energy Savings (3 EE projects in China)
- ☐ Closure Rate is Accelerating

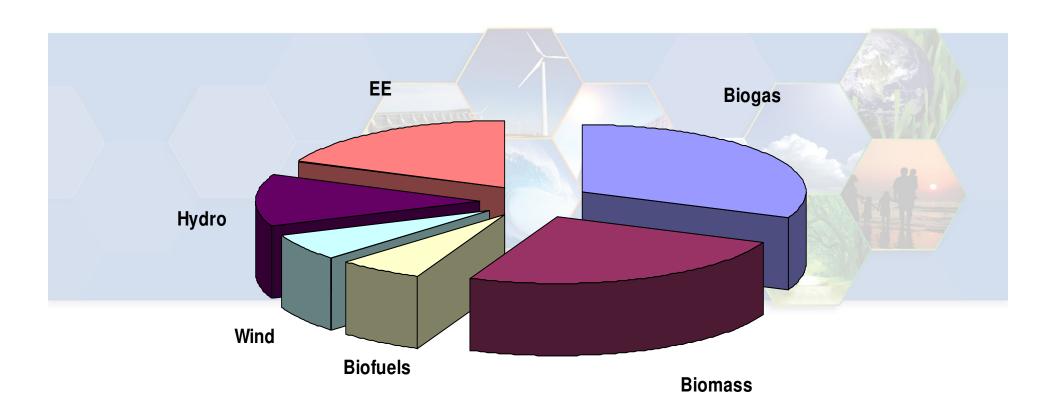


Closed Projects by Region





Closed Projects by Technology





Project Samples

- □ 12 MW Biomass Power Plant in the Philippines / USD 30 Million
 - Rice Husk / 1st of 4 Phases (\$ 236 million total)
 - Innovative Project Structure to secure feedstock
 - CTI PFAN helped develop the BP & Financing Structure
- W2E Project in Thailand / USD 5 million
 - 80 tonnes MSW / day anaerobic digestion to biogas / 1 MW
 - Scale up to 300 tonnes / day ca 3,5 MW
 - Introduction of gasification for solid waste / non organic component
 - 4 Revenue Streams: Gate Fee / PPA / Sale of Fertiliser / CDMs
 - Replication



PROJECT SAMPLES

- □ Productive Energy in Northern Mozambique
 - Establishment of Cold & Logistics Chain to get fish to cash markets
 - Gasification of Coconut Husks / Containerised Solution / Mini-grids
 - 6 Village Pilot (USD 1 million)
 - 200 village target / 800 village potential @ 12.000 kg / village pa
- □ South South Technology Transfer
 - Brazil Mozambique: Solar Powered Hydroponic Farming
 - India Philippines: Battery technology for E-Trikes
- BoP / Solar Rural Electrification Projects
 - Barefoot / Tough Stuff / Sunlabob
 - Innovative Distribution & Delivery Models
 - Venture Financing / Rental Systems / Services



Learning Points from Proposals Seen

□ Too much Technology
 □ Data overload: poor organisation of available data
 □ No Ask
 □ Not enough financial information (and too late)
 □ Key Strengths: what makes the project unique
 □ Critical Success Factors
 □ Risk Analysis & Mitigation

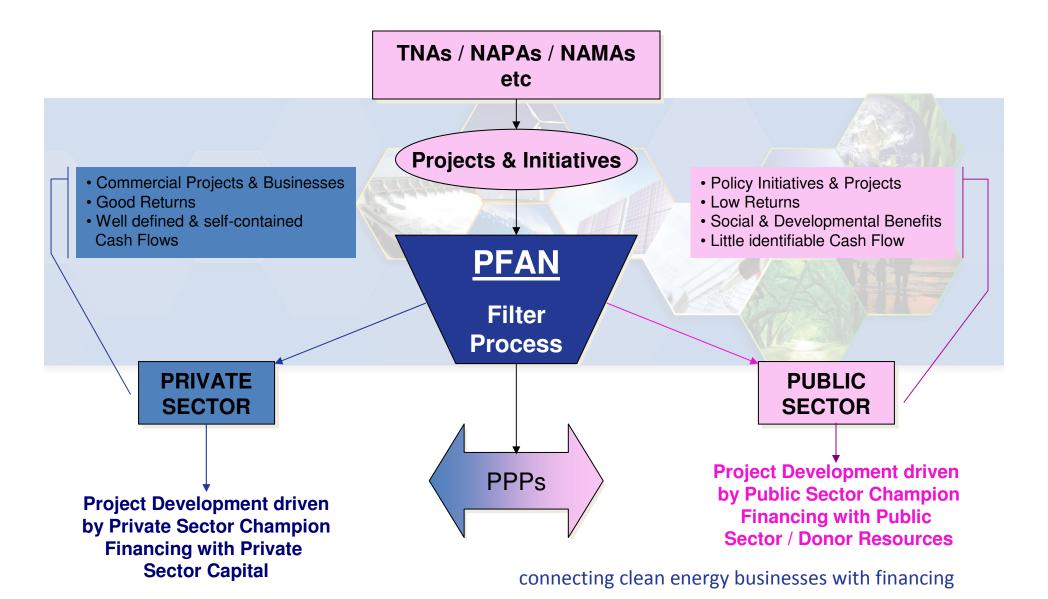


Added Value of CTI PFAN

Early stage development tools like PFAN are important
□ Resource Optimisation
□ Access to Deal Pipeline for Investors
□ Direct Access to Investors for Developers
□ Symbiotic Network Effect
☐ Risk Reduction through targeting of key risk points
☐ Reduction of Transaction Costs for all parties
☐ Accelerated Development Progress



Filter Role





Planning for 2011 (Asia)

- ☐ Launch of CIS / East European Network
 - Coverage of Central Asian Countries
- ☐ Country CE Financing Fora / Investor Workshops
 - Philippines, Indonesia, China & India
- ☐ AFCEF 3 Asia Regional Financing Forum
 - September 2011
- ☐ Launch of Adaptation Stream
 - 2 Workshops / Pilot Programme



Summary

- ☐ Strong Development Pipeline Growth & Activity levels
 - Broad Regional & In-Country Coverage across Asia
- ☐ Value Provided to Investors & Developers
 - Good Success Rates / Getting More Projects to Financial Close
 - Facilitating Technology Transfer
- ☐ High levels of Financial Leverage
- Potential for Scale Up and Positioning of CTI-PFAN post 2012
- ☐ CTI PFAN is open for business in Asia
 - Continued expansion through 2011 / Actively seeking new Projects
- ☐ CTI PFAN would be pleased to help workshop participants develop, structure and secure financing for their projects



CONTACTS

- ☐ General Enquiries / Membership etc
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