



Workshop on sectoral approaches Bonn, 24 and 25 March 2009

Possible financial scheme to facilitate sectoral cooperation

25 March 2009

Yoshihiro Kumagai
Special Advisor and
Head of Environment Finance Engineering Department
Japan Bank for International Cooperation





Financing to Low Carbon Investment - General -





Transition to Low Carbon Society

Our goal = 'Low Carbon Society'
Solution: Improvement of EE and more use of RE

How effectively shall we realize its goal?

- 1 Who emitted?
- 2 Where is reduction space?
- 3 Who shall or can pay its cost?

Who are major players?

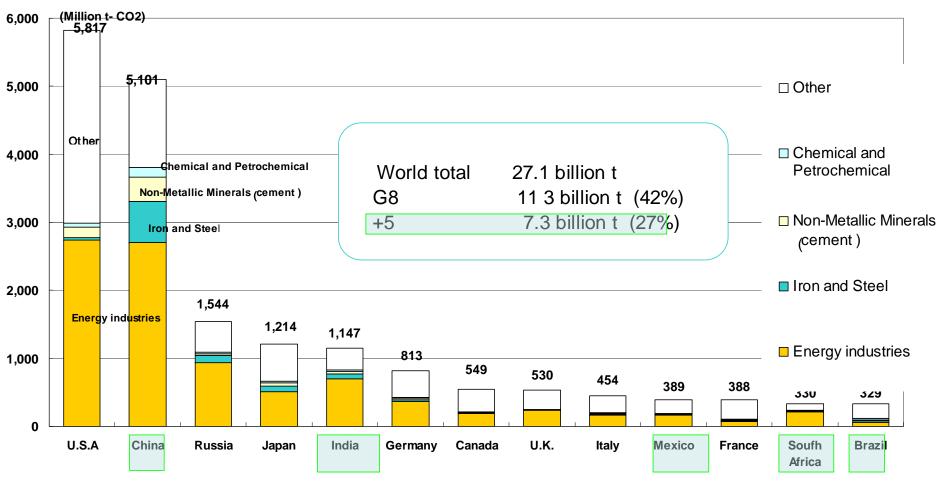
Private Sector: Investment and Financing

Public Sector: Improve investment climate

CO₂ Emission (2005)



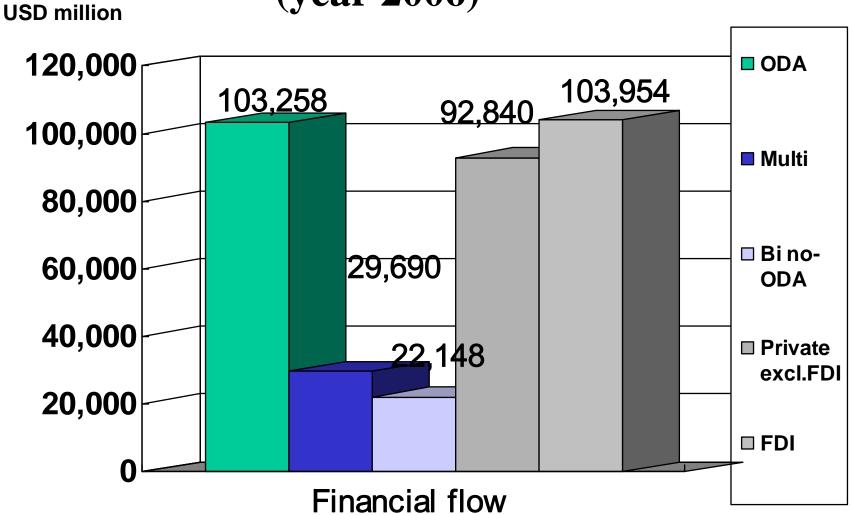




(Source)OECD/IEA Carbon Dioxide Emissions from Fuel Combustion , 2005



Financial Flow to Developing Countries (year 2006)



Source: OECD DAC Y2006





Financing by JBIC





Risk Mitigation and Financial Options

Risk Mitigation

Government

Financial institution

Corporate

Project cash flow

Financial Options

Lending

Guarantee/Insurance

Bond issuing

Equity investment



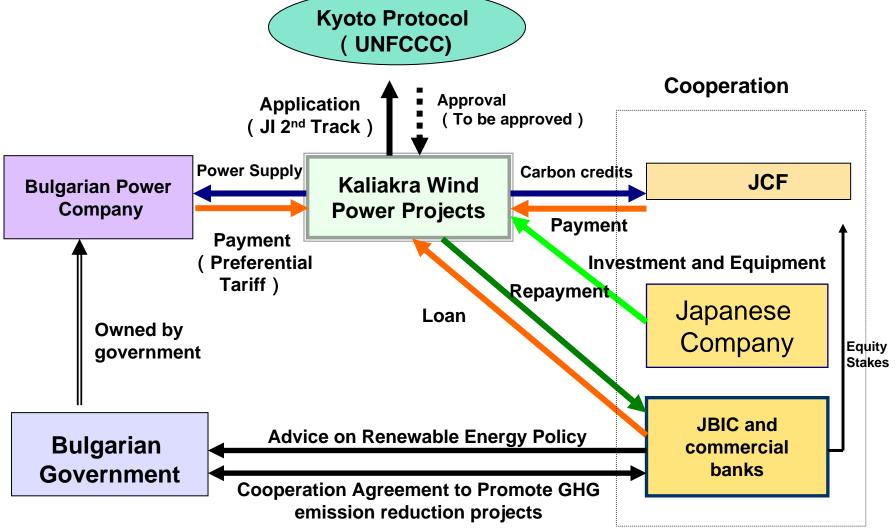


Financial Instruments of JBIC

- Regular contact with industries
- Varieties of risk mitigation
- Long-term relationship with host countries
- Co-finance with private finance (Catalytic role)
- Co-finance with other export credit agencies and multilateral financial institutions

Japanese Technology, Carbon Finance and JBIC'S Finance

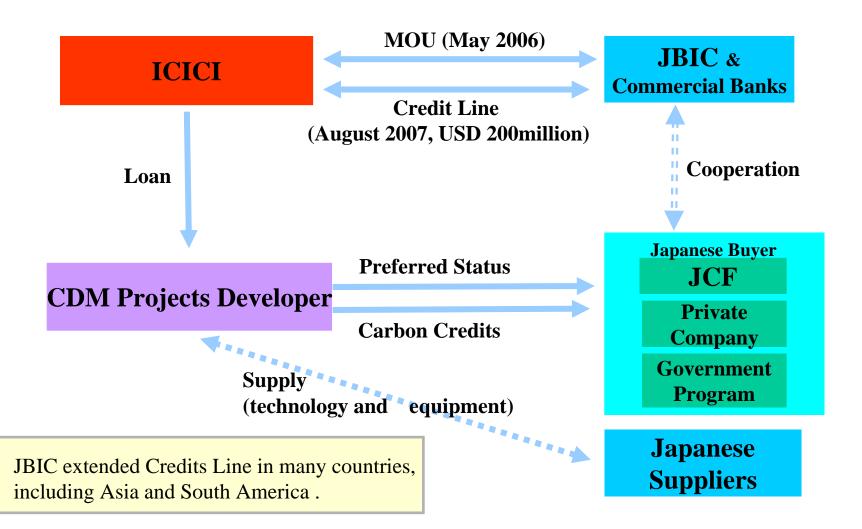








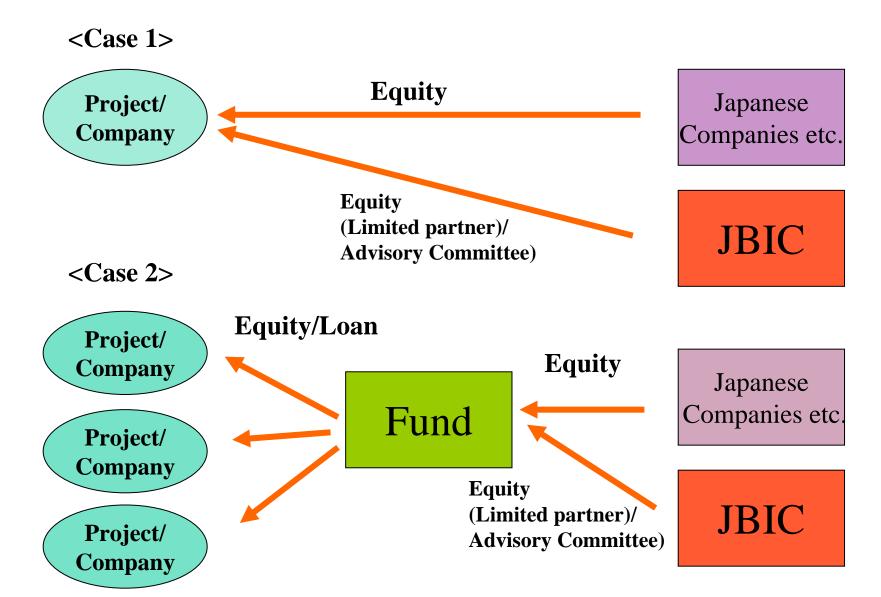
CDM Enhancement Credit Line



Equity Finance (FACE)









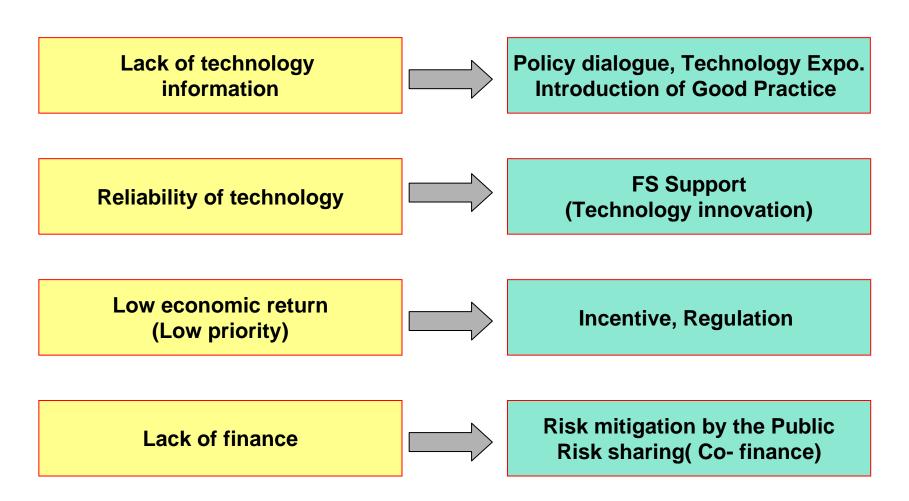


Scaling up of investments





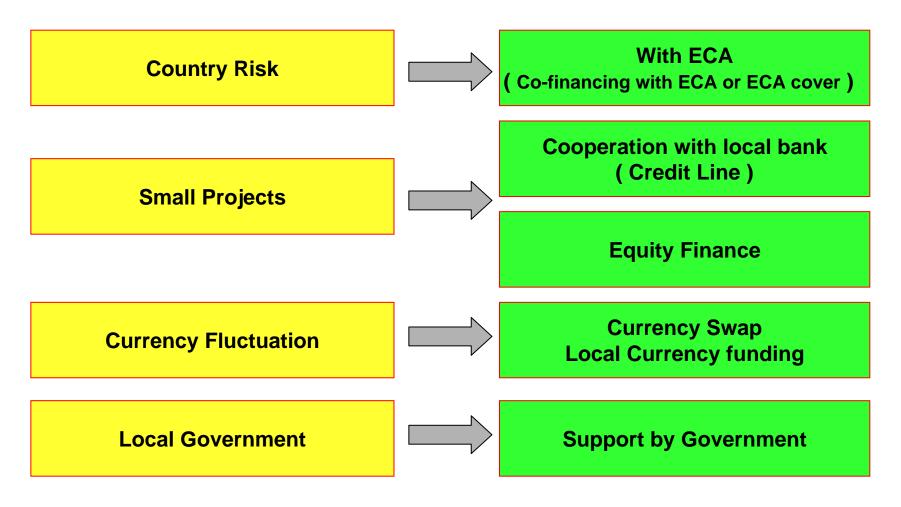
Barriers for Scaling up of the Investments







Major Risk for Finance in Developing Country







Voluntary Energy Efficiency Target and Environment Finance





Voluntary Standard by Private Initiative

1st step

Methodology for measurement of energy efficiency (CO2 emission per production/Efficiency indicator)



2nd step

Specification of technology for transfer globally (Bilateral / Multilateral technology cooperation)



3rd step

Voluntary Target or Voluntary Standard by private initiative (Global De Fact Standard)

Progress of Voluntary Standard Setting



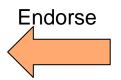
	<measurement></measurement>	<technology specification=""></technology>	<target standard=""></target>
Steel	Measurement methodology book Next; Date gathering	BAT list by APP	
Cement	Measurement methodology by WBCSD Next; Data gathering	De Fact Standard (heat recovery unit)	
Appliance	Measurement methodology On going by IEA and others		
Automobile	EU, USA and Japanese standard Next: local to global	De Fact Standard (Hybrid / Diesel)	EU, USA and Japanese standard Next; local to global

Voluntary Standard and Environment Finance Standard and Environment Finance

Industry & Technology Track

Finance Track

Voluntary Standard Setting
Initiative
(On-going)



Environment Finance Initiative (Message)

Specification of BAT Transfer of BAT



Criteria for prioritized projects (Soft Commitment)

Voluntary Target

Voluntary Standard



Guiding Principle for financing

Financing to Low Carbon projects reduce long term risk



- April 2007: Proposed at the workshop of Asian Pacific Partnership Policy Implementation Committee with US EXIM
- February 2008: Proposed at UNEP FI CCWF
- April 2008 : Workshop for ABAC
- June 2008 : Presented by Mr.Tanami, Governor of JBIC, at GLOBE International Tokyo Forum
- October 2008 : Presented by Mr.Watanabe, CEO of JBIC, at the workshop with IFC





This document has been prepared solely for the purpose of providing indication at a certain point in time or under certain conditions, and is not intended for soliciting investments. Although the data, opinions, and other statements contained herein are based on information which The Japan Bank for International Cooperation (JBIC), which is the international finance wing of Japan Finance Corporation, considers is reliable and accurate, JBIC does not warrant the accuracy or reliability thereof. Furthermore, information contained herein is subject to change without notice. The conditions contained herein are only hypothetical, and do not identify or indicate all risks associated with such transactions. Information contained herein is not intended to be used for settlement of accounts or tax filing, reporting or information disclosure to any third party by [your bank/company], or for other similar purposes. In making final decisions for investment or structuring, [your bank/company] is requested to make decisions at its own discretion and to consult its own attorneys, accountants, and other professionals, as necessary. The copyright in and to this document is reserved by JBIC; and any unauthorized quotation or reproduction thereof for any purpose is prohibited.

Key risks associated with financial instruments transactions

With respect to the subscription of securities, and the handling of primary and secondary offering and private placement of securities, it may be impossible to raise funds as planned, or the sales proceeds may fall below the expected level as a result of having to defer or suspend the primary or secondary offering or private placement due to fluctuations of stock prices, interest or foreign exchange rates, changes in political, economic or financial conditions (whether domestic or foreign), the business affairs or asset or credit status of the issuer, or due to other factors. Furthermore, securities sales and purchase or derivative transactions may be subject to losses as a result of fluctuations of securities prices or value due to changes in stock prices, interest or foreign exchange rates, real estate or commodity prices, political, economic or financial conditions (whether domestic or foreign), the business affairs or asset or credit status of the issuer, the credit status of backup assets, indicative underlying assets, or due to other factors.

Customer fees, etc.

In conducting financial instruments transactions, [your bank/company] will be requested to pay fees and expenses according to the content thereof. [Your bank/company] is also requested to check on documents for individual transactions which are delivered prior to the execution of contract, as this document or other documents on the structuring and scheme of financial instruments transactions cannot specify the amount or calculation method of such fees or expenses; or, if specified, they are simply indications. Please note that JBIC may receive the difference between the sale price and the paid-in amount as its compensation, in lieu of receiving fees or other charges in connection with the subscription, etc., of securities.

Please carefully read the documents which are delivered prior to the execution of contract, and the prospectus or customer reference materials for each financial instrument, as the content of risks, fees and other expenses vary depending on each instrument.

Trade name: Japan Finance Corporation