



Renewable Energy Innovative Financing Solutions

INDIA INFRASTRUCTURE FINANCE CO. LTD. (IIFCL)
IIFCL ASSET MANAGEMENT CO.LTD - IDF

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Background



- India currently having a Total Installed Power Generation of around 320000 MW comprising of Thermal, Hydro, Renewable & Nuclear
- ➤ India has ambitious Renewable Energy targets of 175GW by 2022 100 GW of Solar Power, 60 GW of Wind Power,10 GW of Waste-to-Energy Power and 5 GW of Small Hydropower.
- ➤ Existing Installed Renewable Capacity is 42.89 GW comprising Wind 26.87 GW, Small Hydro Plants- 4.27 GW, Waste to Energy 4.94 GW and Solar Power 6.76 GW.
- Additional investment required \$189 billion includes \$57 billion in equity and \$132 billion in debt.
- ➤ Banks burdened with stressed loans and overexposed to the infrastructure sector.
- Foreign and domestic institutional investors Potential to bridge this financing gap.



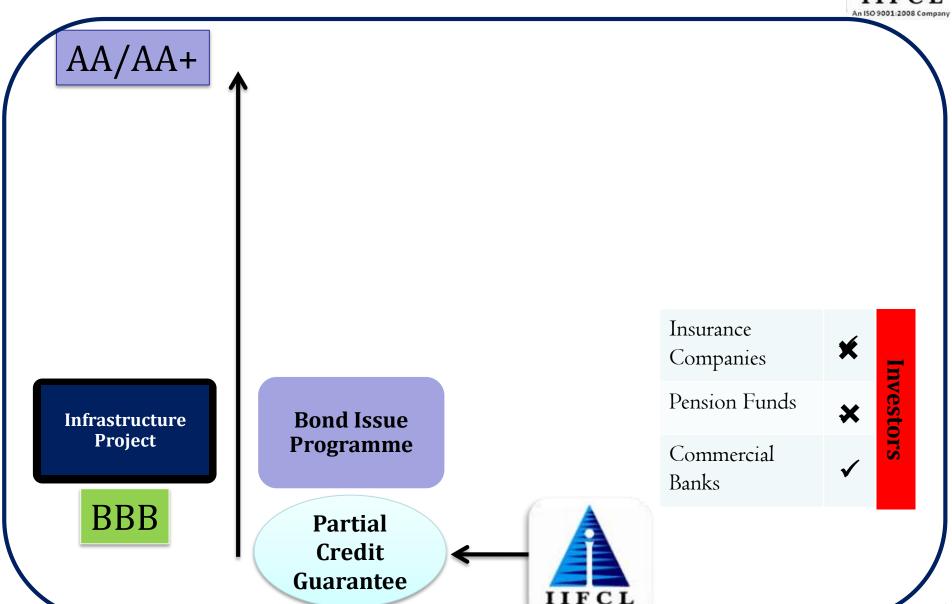
ENABLING SOLUTIONS INNOVATIVE FINANCIAL INSTRUMENTS



- >Credit Enhancement
- ➤ Infrastructure Debt Fund
- ➤ Infrastructure Investment Trusts
- ➤ Securitization & Asset Backed Securities
- ➤ Green Bonds

Credit Enhancement- Structure







Credit Enhancement – Benefits

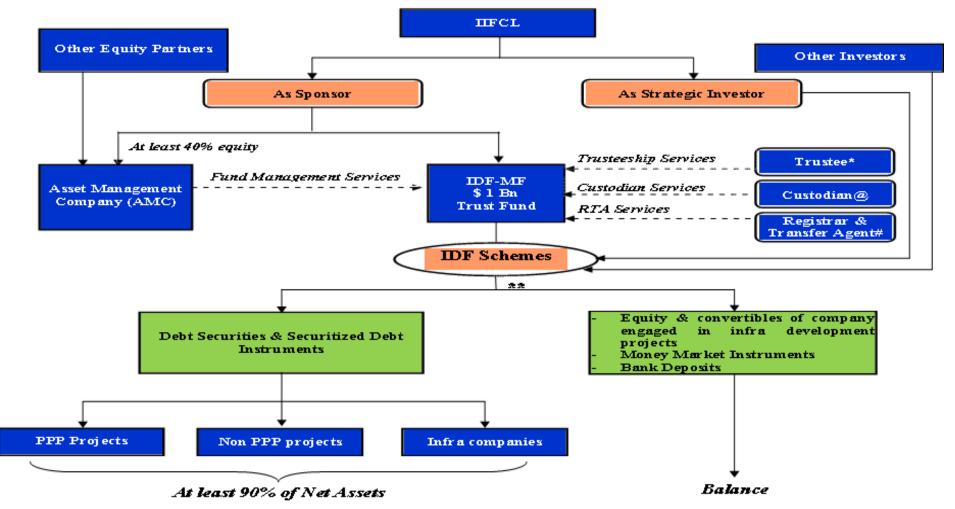


- ➤ Better rating for Infrastructure Project (AA or higher).
- ➤ Bridging gap between stand-alone rating and min. investment rating for Long Term Investors like Insurance and Pension Funds.
- Effective in mobilization of Long Term Debt.
- Freeing up of Bank's capital as well as exposure
- Longer Term funds for the project with cash flow suiting a project's requirements
- ➤ Development of Bond Markets
- Reduced rate of interest for the borrower/project



INFRASTRUCTURE DEBT FUND- STRUCTURE IIFCL MF (IDF)





- @ Citibank N.A. appointed as Custodian and Fund Accountant
- # Computer Age & Management Services (CAMS) appointed as Registrar & Transfer Agent



Infrastructure Debt Fund Benefits



- An alternative Medium to Long term investment instrument- with options of tenor ranging 5 to 20 years.
- ➤Investors to IDF includes FIIs, Pensions Funds, Insurance Cos, Sovereign Wealth Funds and other investors
- ➤IDF (MF) can provide a "Structured Financial Products" for SPV's and Infrastructure Companies.
- Potential to reduce cost of financing to the project and Promoters based on the Rating & Class of Instrument used.



INFRASTRUCTURE INVESTMENT TRUSTS

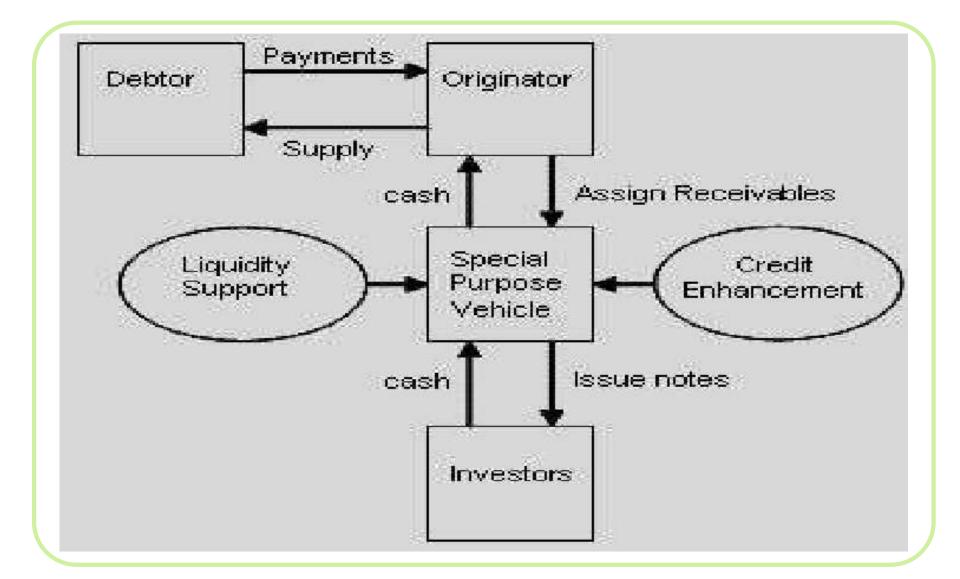


- InvITs are mutual fund like intermediaries enabling investments into the infrastructure sector by pooling different investors like HNI, FI's, FPI's & Retail and channelize funds into Infrastructure projects.
- ➤ Mandatory listing of InvITs Investment opportunity to a larger pool of investors and financial institutions
- ➤ Helpful in reducing exposure of Indian banking system and free up the Banks Capital.
- Existing Developers and Banks will be able to deleverage their debt from the completed projects which will enable them to focus on new projects in the sector and will improve the investor sentiment.



Securitization and Asset-Backed Securities – Structure







Securitization & Asset-Backed Securities —Benefits



- ➤ A convenient mechanism to suit changing needs of borrowers and lenders
- > Separates the credit risk of the assets from the credit risk of the Originator
- Lower the cost of borrowing for Originator as the security is independent of the rating of the corporate securitizing these assets
- ➤ Illiquid assets converted into marketable securities and thus provide alternate funding source
- ➤ Risk-diversification advantages to investors
- ➤ PTC/ Notes/ Bonds are rated by Credit Rating agencies and placed with capital market investors.
- Allows banks to transform long-term infrastructure loans into cash, thus increasing lending capacity.



Green Bonds



- A debt instrument issued by an entity for raising funds 'ear-marked' for use towards financing 'green' projects/ assets/ business activities with environmental benefits.
- ➤Investor Diversification Attract new class of investor base Insurance Funds, Pension Funds, Sovereign Wealth Funds apart from the traditional investors like Bank's, F.I's etc. for financing Green projects.
- >Helps in enhancing an issuer's reputation. Illustrates green credentials of the issuer.
- Demonstrates commitment towards the development and sustainability of the environment.
- ➤ Potential for pricing advantage





THANK YOU Dr E.S.Rao