

SUMMER INTERNSHIP REPORT ON

ANALYSIS OF WIND POWER MARKET - INDIA & ABROAD and REC MECHANISM

UNDER THE GUIDANCE OF

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DECLARATION

I, Pulkit Khosla, Roll No 1120812246 student of MBA (POWER MANAGEMENT) at National Power Training Institute, Faridabad hereby declare that the Summer Training Report entitled - “Analysis of Wind Power Market – India & Abroad and REC Mechanism” is an original work and the same has not been submitted to any other Institute for the award of any other degree.

A Seminar presentation of the Training Report was made on _____ and the suggestions as approved by the faculty were duly incorporated.

Project In charge

Signature of Candidate

NPTI , Faridabad

Counter Signature

Director/Principal of Institute

EXECUTIVE SUMMARY

Wind Power is one of the most viable alternatives to reduce dependence on fossil fuels. The development of wind power is the key to fight against climate change. Most importantly, wind power would save 1.5 billion tons of CO₂ emissions in 2020. “The Energy Roadmap -2050” is an industry blueprint that explains how wind power could supply 34% of the world’s electricity by 2050 and 16.5% by 2020.

India has a vast potential in wind energy, India has now gained sufficient technical and operational experience in wind energy sector; Apart from offering as a viable option in the energy supply mix, wind energy sector also offers an attractive investment option to the private sector. The recently announced policies and renewable purchase obligation are the key drivers towards encouragement of private sector developers to come up with wind power generation plans. The report starts with an overview of Indian Power Sector. This section further covers Renewable energy scenario in India and across world. Finally, this section ends with covering wind power scenario in India and abroad.

The report further discusses in detail the legislative and regulatory framework established in India for the development of renewable energy. This section of report also covers the views and commitments of Government and various other Government agencies, towards sustainable development of wind energy sector in India.

The support for renewable energy development has progressively increased over years both at central level and state level, particularly for rising concerns towards environmental protection and non-availability of fossil fuels. The report endeavors to understand and find out the policy and budgetary support available for wind energy development across various states in India. The study also includes comparison of preferential tariff prevalent across states in India.

India has great potential to accelerate the use of its renewable resources especially wind energy to power its growing economy with a secure and affordable energy supply. Strengths, weakness, opportunities and threats (SWOT) of wind energy sector are analyzed in this report.

The study also focuses on the prevalent practices in the sector, the policy initiatives, fiscal benefits being offered and other conducive steps taken by Government & other Government agencies, of various countries towards promotion of wind energy. Profiles of key suppliers with their EPC cost and list of developers are also attached with this report. This report also covers in detail the need, concept & procedure of REC Mechanism in India. The report concludes with recommendation of potential states for setting up of wind power plants.

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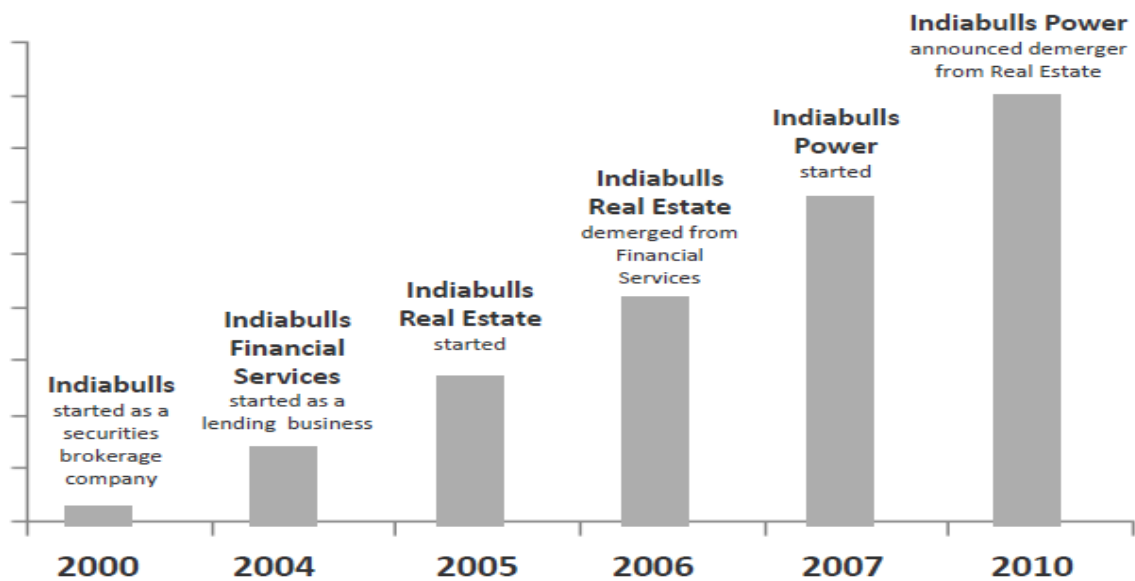
Pulkit Khosla

ORGANISATION PROFILE

Indiabulls Group is one of the country's leading business houses with business interests in Power, Financial Services, Real Estate and Infrastructure. Indiabulls Group companies are listed in Indian and overseas financial markets. The Net worth of the Group is Rs 18,593 Crore and the total planned capital expenditure of the Group by 2013-14 is Rs 35,000 Crore.

Indiabulls companies have operations in every major Indian city including but not limited to Mumbai , Delhi NCR ,Chennai ,Hyderabad ,Bangalore ,Nasik ,Ahmedabad. Indiabulls Financial Services Limited, Indiabulls Real Estate Limited, and Indiabulls Securities Limited are listed on the NSE, BSE and Luxemburg stock exchange.

Indiabulls Power Limited had a successful IPO in October 2009 and is listed on NSE and BSE. Indiabulls has been conferred the status of a “Business Superbrand” by The Brand Council, Superbrands India.



Indiabulls Power Ltd. ('IPL'), the holding company for Indiabulls Power Business, is actively participating in power generation projects while securing coal mines at the same time. Net worth of IPL is close to Rs. 4,410 crores.

Indiabulls Power is developing 6720 MW of coal based power plant in three locations across India.

IPL is developing three hydro projects and has signed MoU with Govt. of Arunachal Pradesh

IPL has already commissioned 6 MW Solar Projects in the State of Maharashtra and Uttar Pradesh & is supplying power to MSEDCL and MVVNL respectively.

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ABBREVIATIONS

AD	Accelerated Depreciation
C- WET	Centre for wind energy technology
CASE	Commission for Additional Sources of Energy
CDM	Clean Development Mechanism
CEA	Central Electricity Authority
CER	Carbon Emission Reduction
CERC	Central Electricity Regulatory Commission
DMRPS	Dynamic minimum renewable purchase standard
DNES	Department of Non-conventional Energy Sources
DOE	Department of Energy
FIT	Feed In Tariff
GBI	Generation Based Incentive
GWEC	Global Wind Energy Council
IEDA	Institute for Energy Diversification and Saving
IREDA	Indian Renewable Energy Development Agency
MNES	Ministry of Non-conventional Energy Sources
MNRE	Ministry of New and Renewable Energy
NAPCC	National Action Plan for Climate Change
NREAP	National Renewable Energy Action Plan
ORED	Office for Renewable Energy Deployment
PFC	Power Finance Corporation
PPA	Power Purchase Agreement
PTC	Production Tax Credit
RE	Renewable Energy
REC	Renewable Energy Certificate
REDA	Renewable Energy Development Authority
REP	Renewable Energy Policy
RPO	Renewable Purchase Obligation
RPS	Renewable Portfolio Standard
SERC	State Electricity Regulatory Commission
SLDC	State Load Dispatch Centre
UI	Unscheduled Interchange

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