

# Get the latest news on FPL news on \$380 Energy's \$380 Million Bond Financing!

# FINANCING VIND POWER PROJECTS

December 3-5, 2003 • Metropolitan Hotel • New York, NY

AEP Energy Services, Inc. American Wind Energy Association

Featuring Experts from:

ANZ Investment Bank

Babcock & Brown LP

Chadbourne & Park LLP

Fortis Capital Corp. FPL Energy, LLC

FreeStream Capital Partners

Garrad Hassan America, Inc. Global Energy Concepts, LLC

Meridian Investments, Inc.

Milbank, Tweed, Hadley & McCloy LLP

Probyn & Company, Inc. Rabobank International

R.W. Beck, Inc.

Marsh USA. Inc.

SSESSCO Inc.

Standard & Poor's

**Corporate Sponsorship by:** 



Media Partner:



- Structuring Wind Power Developments— Assessing and Allocating On-Shore and Off-Shore Project Risks
- Assessing Technical and Wind Risk
- Institutional Investors, Ratings Agencies
   & Non-Traditional Equity
- How Federal and State Incentives Affect Wind Project Feasibility
- Case Studies and Lessons Learned in Wind Power Developments

Plus, don't miss our pre-conference workshop!

"DEALING WITH CONTRACTUAL ISSUES FOR WIND PROJECTS"

# Milbank

Dear Colleagues:

The wind energy industry has enjoyed a year of reasonable growth in 2003 as new projects have been built in anticipation of the production tax credit expiration date on January 1, 2004. Wind energy projects are now in development throughout the country and on track to being a dominant form of renewable energy. The significant challenge for wind energy projects—indeed all renewable energy projects—is the availability of development financing, construction and long term debt and long term equity capital. Projections of a 30,000 MW wind energy portfolio in the United States (which would be less than five percent of installed capacity, but well ahead of today's 6,000 MW of installed wind energy capacity) are entirely dependent upon the money necessary to develop and build those projects.

Financing Wind Power Projects has been designed to provide large and small developers and financiers with the insights gained by many of the leading wind power project developers, financiers, and technical experts from around the world. They will discuss in depth, including through several case studies, the market and terms for development financing, debt and equity. They will also explore the technical, insurance, tax and other issues that are affecting the availability of capability in this resurgent industry. We have designed this conference to be the definitive program in the current market for financing of wind energy projects.

Join us at Financing Wind Power Projects in New York on December 3-5, 2003. Register today!

We look forward to seeing you in New York on December 3-5, 2003.

Since rely,

Ed Feo

Partner, Milbank, Tweed, Hadley & McCloy LLP

P.S. Attend the pre-conference workshop on

"DEALING WITH CONTRACTUAL

"DEALING WITH CONTRACTOR"

ISSUES FOR WIND PROJECTS"

to learn how to set up contracts to create an advantageous structure for your project!

## **Pre-Conference Workshop**

Wednesday, December 3, 2003 • 1:00-5:00 pm

# Dealing with Contractual Issues for Wind Projects

#### Presented by:

Robert N. Freedman, Senior Associate, MILBANK, TWEED, HADLEY & MCCLOY LLP

Andrew Garrad, Director, GARRAD HASSAN AMERICA, INC.

Wayne Song, Associate,
MILBANK, TWEED, HADLEY & MCCLOY LLP

Like any power project development, wind farms stand on a structure of financial and project contracts and other documents. This workshop will review the various types of contracts, and show how they should be set up to create an advantageous structure for your project.

- → Financing Documents versus Project Documents
  - Interrelationships
  - · Negotiating Lender-Friendly Terms
- ◆ Typical Project Documents
  - · Power Purchase Agreement
  - · Construction Contract
  - · Warranty Agreement
  - · O&M Agreement
  - · Interconnection Agreement
  - · Real Property Entitlements
- ◆ Project Documents and Risk Allocation

# Kudos from our last Financing Wind Power Projects event:

Well put together schedule of speakers.

Dynamic and interesting

presentations.

Rob Nicholson, MACQUARIE, HALL & CO.

Excellent organization. 99

Ajay Gupta, UNIVERSITY OF MICHIGAN-BUSINESS SCHOOL

Was a good networking and educational event/opportunity for bringing new people into a growing industry.
High quality speakers.

Michael Kujawa, ENERGY JOURNAL

I thought it was an excellent conference overall and was very informative, as well as well run.

Hiram Powell, Vice President, WESTWIND

Very good speakers, nice pacing.
This conference was exceptional.

Patrick Barry,

Associate Utility Financial Analyst,
NY STATE PUBLIC SERVICE COMMISSION

## Attend the Networking Event of the Year!

Companies at our previous Financing Wind Power Projects Conference include...

3 Phases Energy Advanced Renewables LLC Ahmad Houshmand & Associates

Air Products and Chemicals, Inc.

Altera Power Systems Inc.

ANZ Investment Bank Arnold & Porter

Arnold & Porte Baker Botts

BC Hydro BNP Paribas Capstar Partners

Caithness

Cielo Wind Power

Clipper Windpower, Inc.

ComEd

Credit Agricole Indosuez

Dexia
DMI Industries
EIF Group

Energy & Environmental Engineering

Energy & Environmental Research Center

Energy Northwest

ENERTAD/Tad Metals Inc.

Enxco

Foresight Energy Fortis Capital FPC Services, Inc.

FPL Energy, LLC GE Wind Energy

Generation Resources Holding Co.

Global Corporation, LLC Global Finance Corporation Global Renewable Energy Partners, Inc.

Hogan & Hartson LLP ITOCHU Corporation

Jawbone Energy Kaye Scholer LLP

Kaye Scholer LLP
King & Spalding LLP

LG&E Power Inc LM Glas Fiber

Logan Capital Corporation

Manitoba Hydro McCarthy Tetrault Meridian Energy

Corporation

Meridian Investments, Inc.

Milbank Tweed Hadley &

McCloy LLP
National Renewable
Energy Laboratory

Naval Facilities Engineering Service Center

New Mexico Energy Nordea Bank

Nyemaster Law Firm

Oklahoma Municipal Power Authority

O'Melveny & Myers LLP Oxbow Power Corporation

PacifiCorp Power Marketing, Inc. Platts Research &

Consulting
Prepa-Government
Prometheus Energy

PSEG Power

RBC Capital Markets
Reunion Power

Ridgeline Energy

Rosendin Electric Inc.
Sempra Energy Resources

Shell Wind Energy, Inc.

Société Generale Sterling Energy

Terranova Energy Corp.

The CIT Group
TVI Group

USDA-Rural Utilities

Service Valmont Wind Energy

Vestas-American Wind Technology

Whitney & Co., LLC Wintec Energy Ltd.

Zilkha Renewable Energy

## Obtain the Latest Information on Wind

Thursday, December 4, 2003

## ADMINISTRATIVE ANNOUNCEMENTS AND OPENING REMARKS BY THE CONFERENCE CHAIRMAN

Ed Feo. Partner. MILBANK, TWEED, HADLEY & MCCLOY LLP

## STRUCTURING WIND POWER PROJECT DEVELOPMENTS AND FINANCE

## OVERVIEW OF FINANCING WIND POWER PROTECTS: DEVELOPMENTS IN 2003

Ed Feo, Partner,

MILBANK, TWEED, HADLEY & MCCLOY LLP

Shane Bush, Director & Head, Renewable Energy, ANZ INVESTMENT BANK

The expiration of the federal production tax credit at the end of 2003, and a growing number of state programs providing incentives and contracts for wind energy projects, led to an active financing market in 2003. European financial institutions again dominated the bank market, while Canadian insurers reentered the market. This year also brought the first investment grade rated bond transaction for a wind energy portfolio. This presentation will review the state of the financing market, the hot issues of this year's deals.



## **EXAMINING A \$380 MILLION BOND** FINANCING

David L. Giordano, Project Director, Development, FPL ENERGY, LLC

In 2003, FPL Energy, LLC sponsored the first investment grade rated bond transaction for wind energy assets. The transaction is a milestone in the development of the capital markets for the wind energy industry. This presentation will review the background of the transaction, the negotiation process with the rating agencies and the challenges of closing the deal.

Morning Refreshment & Networking Break

## A RATINGS AGENCY VIEW OF CREDIT RISKS IN WIND PROJECTS

Terry Pratt, Director, U.S. Utilities, Energy & Project Finance, STANDARD & POOR'S

As credit issues rise to the fore of project development, players are increasingly looking to rating agencies for their perspective. Mr. Pratt will explore specific rating issues surrounding the development of wind projects, including:

- · A project finance analysis road map
- Technology and construction
- · Wind resource assessments are two years enough?
- · Financial performance at what confidence level?
- · Portfolio effects on credit

## THE MARKET FOR FINANCING FROM CANADIAN INSURANCE COMPANIES

Stephen Probvn. President and CEO. PROBYN & COMPANY, INC.

Mr. Probyn will discuss the market for debt financing from Canadian life insurance companies. He will develop a case study of a transaction expected to close in the Fall of 2003, and will provide insights into the key deal issues for these important funding sources. Probyn & Company has been active as a financial advisor to Canadian insurance companies in the financina of wind energy assets in the United States and Canada since the late 1980's.

Group Luncheon



## 2003 BANK FINANCING **TRANSACTIONS**

#### **Moderator:**

Ed Feo. Partner. MILBANK, TWEED, HADLEY & MCCLOY LLP

Shane Bush, Director & Head, Renewable Energy, ANZ INVESTMENT BANK

Jay Godfrey, Director of Business Development, AEP ENERGY SERVICES, INC.

Mark L. LaPonte, Vice President, RABOBANK INTERNATIONAL

Hendrik J. Vroege, Managing Director, FORTIS CAPITAL CORP.

#### Additional Panelists TBA

This year we have seen a resurgence of the bank debt market in the wind sector, with multiple projects being financed in the second and third quarters. We shall have case studies on 2003 transactions and a panel discussion among representatives from ANZ Investment Bank, Fortis Bank, Rabobank International and other lenders, and sponsors such as AEP Energy Services, Inc., discussing their deals from the third quarter, including key terms and the trends of the market.

## LOOKING AT ON-SHORE VS. OFF-SHORE PRO1ECT RISKS

Charles C. Moore, Senior Vice President, MARSH USA, INC.

Renewable energy, once aggressively solicited by insurers, fell into disfavor in the late nineties following years of poor loss records and small premiums. Over the past two years, the few remaining underwriters that participated in insuring wind units were able to restrict problematic coverage terms and get higher premiums. Premiums also rose commensurate with increased turbine prices, especially on the 3 MW and higher models and the off-shore wind

Even with underwriting concerns about new technology, the insurance market shows signs of softening for the proven on-shore units that are not located in high risk catastrophic zones. The off-shore market is expanding the number of players (underwriters) and is developing at a cautious pace. Capacity is restricted and premiums are anywhere from a factor of three to five times on-shore rates.

Afternoon Refreshment & Networking Break

## **Power Developments & Case Studies**

# DEALING WITH ENGINEERING AND SITING ISSUES IN WIND POWER PROJECT DEVELOPMENT

# GRID INTERCONNECTION: ASSURING ACCESS TO MARKETS AND UTILITY COMPLIANCE

**Francis Gaffney,** *Senior Director,* R.W. BECK, INC.

A key component of any successful wind power project is its accessibility to the grid. For wind power projects, access to the grid can be more problematic than for most other types of power projects. Siting a wind project for optimum wind conditions may mean a location that's relatively inaccessible to the grid. Multiple considerations need to be taken into account: technical, regulatory, and safety. This presentation will address the key transmission access issues that need to be factored into any successful wind power project, and lessons learned from actual wind power projects in various locations throughout the U.S. Highlights will include:

- Technical considerations for interconnecting to the transmission system (e.g., voltage, stability, thermal limits)
- · Market access, congestion and transmission rights
- · Lessons learned from recent projects

# REGULATORY ISSUES IN ARRANGING GRID ACCESS AND INTERCONNECTION AGREEMENTS

James Caldwell, Policy Director, AMERICAN WIND ENERGY ASSOCIATION

One of the most important considerations in successfully developing any power project is arranging grid access and interconnection agreements. This is doubly important for an intermittent asset, such as a wind farm; and FERC is currently working not only on major revisions of pro forma tariffs, but also interconnection agreements. This presentation will compare and contrast how interconnection and transmission tariff issues are currently handled with how they are expected to be regulated after the release of the FERC Standard Market Design rulemaking.

- Comparing and contracting the treatment of intermittent resources, like wind, under FERC Order 888 Pro forma Tariff, vintage 1995, with what it will be under a FERC standard
- How the new interconnection process will work for resources like wind

## SUMMARY OF THE DAY BY THE CONFERENCE CHAIR

Cocktail Reception

Friday, December 5, 2003

## OPENING REMARKS BY THE CONFERENCE CHAIRMAN

Ed Feo, Partner, MILBANK, TWEED, HADLEY & MCCLOY LLP

# ASSESSING WIND AND TECHNOLOGY RISK IN WIND PROJECTS—OFF-SHORE VS. ON-SHORE RISK ASSESSMENT

Robert Z. Poore, President, GLOBAL ENERGY CONCEPTS, LLC

Andrew Garrad, Director, GARRAD HASSAN AMERICA, INC.

To develop a successful wind power project, it is often necessary to balance the reluctance of financial institutions to finance developments using advanced turbine technologies against the higher returns that are possible if more modern technologies are used. This presentation will utilize the results of fifteen years of experience in performing technical due diligence on wind projects to examine the effects of technology risk on project financing and success.

- Development and Future of Wind Turbine Technology-Lessons Learned from Technical Due Diligence in Project Financings
- The Historical Development and Future of Wind Turbine Technology
- · Turbine Reliability
- Turbine Availability

Wind farm operators and project sponsors are concerned with wind speed variability on the economic viability of their turbines. While performing a wind and site characteristic study is essential to get financing for a wind power development, how these studies are run can have a drastic impact on the validity of the results. This presentation will review site characteristic and wind studies, and how the results compare with actual wind farm performance.

- · Wind Resource Assessment/Site Characterization
- · Energy Projections and Losses
- · Operations and Maintenance Costs
- · Construction Risks
- · Operating Risks

## DEVELOPMENTS IN WARRANTIES FOR WIND EQUIPMENT

Edward Kayukov, Attorney,
MILBANK, TWEED, HADLEY & MCCLOY LLP
The wind turbine industry has historically offered
significant warranties on the performance of their
equipment. These warrantees have been an essential part
of the development of the industry. As larger
manufacturers become active in the industry, and as
technological advances result in larger turbines, what are
the trends in the warranties on the equipment?

Morning Refreshment & Networking Break

# OPERATIONS AND MAINTENANCE EXPERIENCES AND WHAT THEY MEAN FOR THE FUTURE

Bernie Holst, US General Manager,
GARRAD HASSAN AMERICA, INC. (tentatively confirmed)
Although general operation and maintenance of a wind
farm may not appear directly related to a project's
financing, the potential impact of O&M costs on the
financial viability of a project cannot be understated. In the
past, some deals that looked really good on the surface
were deeply damaged by O&M problems down the road.
Mr. Holst has been intimately involved in the construction,
operation and maintenance of a large fleet of turbines for

## **Excellent Networking Opport**

the past twenty years. He will provide insights into the relationship between O&M and project financing and explore the following issues:

- · Typical O&M agreements
- Interaction between maintenance and warranty work
- Distinction between O&M
- · Distinction between routine and non-routine work
- · Typical service times and costs
- · The importance of careful scheduling
- · The value of record and analysis of data

## DEVELOPMENTS AND PROSPECTS FOR WIND FORECASTING TECHNOLOGY

Mark Ahlstrom, CEO, SSESSCO INC.

Wind forecasting technology is critical to the proper siting, development and financing of any wind project. Forecasting is also of growing importance to the new regulatory regimes for scheduling transmission. Mr. Ahlstrom will provide a detailed overview of the new technology and methods in this sector.

Group Luncheon

# TAPPING EQUITY MARKETS FOR WIND POWER PROJECTS

#### TAX ISSUES AND STRUCTURES

Keith Martin, Partner, CHADBOURNE & PARKE, LLP

Federal and state tax subsidies cover as much as 75% of the capital cost of a wind project, but many developers lack the tax base to use them. There are ways for a developer to convert tax benefits into a source of financing for a project. The structures for doing this have been evolving this year as the industry tries to find ways to induce additional institutional equity to invest. The perception in the market is that there are too few institutional equity participants willing to put money into wind deals to satisfy the demand for capital. This session will cover:

- · The main tax issues this year in wind deals
- · Items developers overlook
- · Where equity investors should probe on due diligence
- · How deals are being structured
- The latest intelligence from Washington about tax law changes that are in the works and their potential effects

#### SOURCES OF EQUITY CAPITAL

**Hunter Armistead,** *Director,* BABCOCK & BROWN LP

The combination of the condition of the merchant power markets, the financial condition of its participants, and the tax incentivized structure of wind farms makes arranging equity for wind developments an interesting adventure. These challenges must be managed to support the growth that wind is experiencing today and is expected to see in the future. Presuming the industry continues to rely heavily on Production Tax Credits to support the equity needs of the industry, new participants are going to have to be introduced. Mr. Armistead's presentation will include the following:

- · Historical perspective on equity
- · Current conditions and players participating
- · Nature of the investment
- · Attracting the passive participants
- · Possible structures

Afternoon Refreshment & Networking Break

## MARKET FOR EQUITY IN TAX ADVANTAGED INVESTMENTS

**John F. Boc,** *Chairman,* MERIDIAN INVESTMENTS, INC.

What tax-advantaged investments are currently available to institutional investors? What factors have contributed to the success of these investments? What hurdles do wind projects need to overcome to achieve comparable success among tax-motivated institutional investors? How large is the institutional market for Section 45 Tax Credits as compared to Section 29, Section 42 and Section 45d Tax Credits. This presentation will present an overview of the equity market, and what prospective developers of wind product should expect. Mr. Boc, a recognized institutional equity expert, will discuss the 21 years of his firms institutional tax credit experience including:

- · Historical credit values & how they are calculated
- · Comparative investment features
- · Comparative statutory features

## CROSS-BORDER EQUITY FOR WIND POWER DEVELOPMENTS

**Michael Davies,** *Principal,* FREESTREAM CAPITAL PARTNERS LIMITED

Mr. Davies will discuss the market for raising cross-border equity for US wind energy projects. As the US wind sector has grown, the demand for equity has been pressing the limits of available capital from US institutions. This presentation will review the sources of capital outside of the US, and the structures for investment of that capital in the US.



#### **Moderator:**

Ed Feo, Partner,
MILBANK, TWEED, HADLEY & MCCLOY LLP
Panelists:

Hunter Armistead, Director, BABCOCK & BROWN LP John F. Boc, Chairman, MERIDIAN INVESTMENTS, INC. Michael Davies, Principal,

FREESTREAM CAPITAL PARTNERS LIMITED **Keith Martin**, *Partner*,

CHADBOURNE & PARKE, LLP
Additional Panelists TBA

A panel of representatives from Chadbourne & Parke, LLP, Babcock & Brown LP, FreeStream Capital Partners Limited, Meridian Investments, Inc. and other equity investors will discuss the demand and prospects for equity capital in 2004 and beyond.

## unities with Today's Players

## CONCLUDING REMARKS BY THE CONFERENCE CHAIR

Conference Adjourns

## About the Sponsor...

Milbank Milbank is a leading law firm in the representation of the wind energy community. As the global leader in project financing, we bring our wealth of experience to the wind power sector to deliver world-class, cost-effective legal services to our wind energy clients. The breadth and depth of our experience in the wind energy sector is unmatched. We have represented new developers as well as some of the largest sponsors in the industry and have been involved in some of largest construction and project financings of wind energy projects to date. These transactions have included the development, acquisition and financing of generation assets (including large scale coal and gas-fired stations as well as numerous wind, geothermal and other renewable energy facilities). Our firm-wide team of wind energy attorneys draws on the experience of lawyers within the firm in the areas of energy regulation, tax, real estate, bankruptcy, litigation, anti-trust and licensing to provide tailored legal solutions to match the needs of our clients. Milbank has one of the largest and most experienced project finance groups of the world's major law firms. Milbank's Global Project Finance Group, which includes 18 partners and more than 100 dedicated project finance attorneys in our offices worldwide, is fully qualified to provide legal advice under both U.S. and English law. Milbank has earned and maintained its reputation as the premier international project finance law firm through its continual involvement in first-of-their-kind, precedentsetting transactions, many of which have been recognized as "Deals of the Year," in its global focus.

Your Course Organizer:

## **LUKE ELEFTHERIOU**

Conference Manager

I welcome your questions and comments about this program, and I am available to discuss your ideas for future conference topics.

## **CAN'T MAKE THE CONFERENCE?**



Buy the comprehensive program manual, available December 19, 2003.

Only \$225.00 Call (508) 405-0983 to order!

## LCD Projectors Supplied by...

SHARP Sharp Electronics Corporation, the world leader in LCD technology, offers a full line of LCD based projection and display products for use in any multimedia application. New models include our compact or portable high-resolution, high-brightness Notevision Projectors, our large venue Conference Series Projectors and our industry leading LCD Video monitors.

# Missed the Conference? Buy the Proceedings!

Proceedings for this and over 75 other conferences are available from **EnergyCatalogue.com**, along with a wide variety of other energy related products

## **Five Ways To Order:**

On the Web:

On the order form below, click the price of the proceedings you wish to purchase, or click HERE to select from a *complete* list of conference proceedings.

#### By Phone

Call 508-405-0983

#### By Fax

Fax the form below to 508-405-0728

#### By Email

Contact us at sales@energycatalogue.com (please include all information requested in the order form)

#### By Mail

Send the form below to: The Energy Catalogue, 1257 Worcester Rd. #327,

Framingham, MA 01701-5217

Click HERE to download a complete PDF catalog of available conference proceedings.

#### **Order Form**

	BINDER	CD	вотн	INTL. SHIPPING
Financing Wind Power Projects	\$225.00	-	-	\$50.00
QUANTITY:	Х	Х	Χ	

Name:						
Title:						
Company:					——— Sub Total:	
Address:					——— Sub Total. ——— Shipping (if applicable):	
					—— 3111pping (il applicable). —— TOTAL:	
City:		State		Zip:	—— TOTAL.	
Telephone:		Fax:				
E-Mail:						
	☐ Check Enclosed (payable to The Energy Catalogue)☐ Bill Me					
Charge My:	□ Visa	□ Mastercard	□ AMEX	☐ Discover		
Account Number:						
Expiration Date:						
Signature						
Credit Card Billing	Address (If	different than ab	ove):			
City:			State:	Zip:		