

Project Bonds: New Energies – Wind

Crédit Agricole CIB, a leader in the global Project Bond market, is authoring a series of articles covering key topics for issuers to consider.

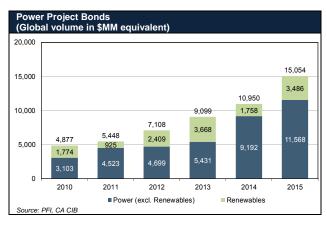
New Energies

The volume of Project Bonds issued for renewable energy projects has steadily increased in recent years.

The Capital Markets opened its doors to renewable energy projects with a wind Project Bond in 2003 followed by solar Project Bonds a few years later in 2010.

These trail-blazing transactions allowed investors to gain familiarity with the technologies, risks, and contractual arrangements of renewable assets. They also paved the way for future issuances, as rating agencies started publishing specific methodologies dedicated to this newly accessible asset class.

In 2015, renewable energy projects accounted for \$3.5BN of Project Bond issuances globally. Renewables have grown to represent nearly 25% of power Project Bonds and 10% of total Project Bonds issued in just over a decade.



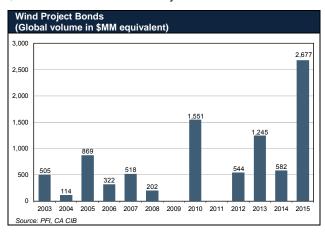
Renewable Project Bonds first gained traction in North America, followed by projects in Europe and Latin America, demonstrating the increasing comfort and global appetite among investors for renewable assets.

While renewables offerings have gained wider acceptance over time, there are challenges that need to be considered prior to approaching the Capital Markets. Lessons learned from past renewable financings can help ensure future successful executions.

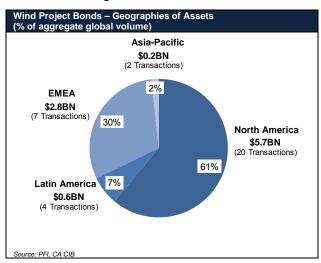
This article provides a review of historical Project Bond issuances for wind assets globally.

Wind Project Bonds

In 2003, the \$380MM 144a Project Bond for FPL Energy American Wind, a portfolio with an aggregate capacity of 697MW across 7 projects in 6 US States, marked the opening of the debt Capital Markets for wind projects. Since then, more than \$9.0BN have been raised globally for 33 wind projects. Individual transactions close to \$1.0BN have been successfully executed.



The first wind transactions involved US-based assets and the majority of projects financed to-date have been located in North America, with more than 20 transactions out of 33 globally. Europe has seen seven offerings and local investors continue to show a solid appetite for this asset class, with some of the largest recent wind transactions executed in this region.

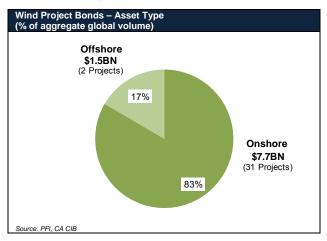


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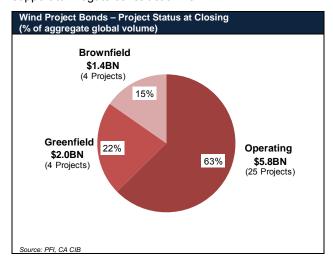
Wind Project Bonds successfully emerged in additional markets as well. The first wind assets to tap the Capital Markets in Latin America were located in Mexico with the \$149MM and \$150MM 144a offerings for Oaxaca II and IV, respectively in 2012. In Asia, an Australian wind farm was refinanced in 2015 with a Project Bond which included a \$99MM USD tranche and a A\$76MM tranche.

Onshore wind projects account for most of the transactions to-date. Since 2015, Capital Markets participants have also welcomed offshore assets and some of the largest recent issuances have been for offshore wind projects.



The majority of transactions have refinanced operating projects, with no need to address construction risk.

However, offerings partially exposed to construction risk have also been successfully placed. Project Bonds for 100% greenfield assets have been less frequent and investors would typically require some form of credit support to mitigate construction risk.



Wind assets are mostly contracted through long-term Power Purchase Agreements ("PPAs") with an offtaker such as a utility or a public entity (State, municipality, etc.). Project Bonds have allowed issuers to fully monetize these contracts with amortizing structures over the full tenor of the underlying PPA. Maturities of 20 years or more are the norm for this type of transaction, with average weighted lives above 10 years.

Issuer	Sponsor(s)	Capacity (MW)	Туре	Project Status at Issuance	Currency	Size (MM)	Tenor (Years)	WAL (Years)	Ratings at Issuance (Moody's / Standard and Poor's / Fitch)	Coupon	Closing Date
Demex Oaxaca 1	Renovalia Energy	90	Onshore	Operating	MXP	2,100	15	7	AA local (S&P) / AA local (HR Ratings)	8.85%	Jan-16
WindMW	Blackstone & Windland Energieerzeugungs	288	Offshore	Operating	EUR & USD	901	6.0 & 12.0	3.0 & 9.0	Baa3 / BBB- / BBB-	2.125% to 5.02%	Dec-15
Armenia Mtn. Wind	AES	101	Onshore	Operating	USD	85	9	5	NAIC-2 (BBB)	3.26%	Oct-15
Dufferin Wind	China Longyuan Power Group	91	Onshore	Operating	CAD	200	18	10	NAIC-2 (BBB)	4.32%	Oct-15
Gode Wind 1	DONG Energy & GIP	330	Offshore	Under Construction	EUR	556	10	NA	NA NA	NA.	Sep-15
Melancthon Wolfe	TransAlta Renewables	397	Onshore	Operating	CAD	442	13	6.7	BBB (DBRS)	3.83%	Sep-15
Coram California	RET Capital	102	Onshore	Operating	USD	105	17	13.5	NAIC-2 (BBB-)	4.52%	Sep-15
Meikle Wind Energy LP	Pattern Energy	180	Onshore	Under Construction	CAD	393	NA	NA	NA NA	NA	Jul-15
Hallett 2 Wind	Infrastructure Capital Group (ICG)	71	Onshore	Operating	USD	99	12	10	NAIC-2 (BBB)	3.78%	Mar-15
Hallett 2 Wind	Infrastructure Capital Group (ICG)	71	Onshore	Operating	AUD	76	12	10	NAIC-2 (BBB)	4.88%	Mar-15
Energia Eolica	ContourGlobal	114	Onshore	Operating	USD	204	20	12.5	/ / BBB- (Fitch)	6.00%	Dec-14
Arise AB	Arise Windpower	135	Onshore	Operating	SEK	1,100	5	NA	NA NA	STIBOR + 300bps	Арг-14
Trillium Windpower	NextEra	147	Onshore	Operating	CAD	315	20	10.7	BBB (DBRS)	5.80%	Jan-14
Continental Wind LLC	Exelon	667	Onshore	Operating	USD	613	20	10.3	Baa3 / BBB- / BBB-	6.00%	Sep-13
Elevate Wind	E.ON	430	Onshore	Operating	USD	285	20	10	NAIC-2 (BBB-)	5.35%	Apr-13
Comber Wind Financial	Brookfield	166	Onshore	Operating	CAD	450	18	9.8	BBB (DBRS)	5.13%	Feb-13
EverPower Wind Holdings	Everpower	150	Onshore	Operating	USD	245	23	13.6	NAIC-2 (BBB-)	5.15%	Aug-12
Oaxaca II	Acciona	102	Onshore	Operating	USD	149	20	13	BBB- / BBB- /	7.25%	Aug-12
Oaxaca IV	Acciona	102	Onshore	Operating	USD	150	20	13	BBB- / BBB- /	7.25%	Aug-12
Caithness Shepherds Flat LLC	Caithness Energy	845	Onshore	Under Construction	USD	525	22	NA	80% AAA / 20% BBB-	4.97%	Dec-10
Hatchet Ridge Pass-Through Trust	Pattern Energy	101	Onshore	Operating	USD	142	19	10	/ / BBB-	5.95%	Dec-10
Alta Wind Holdings, LLC	Terra-Gen Power	570	Onshore	Under Construction	USD	579	24	13	BBB- / BBB- /	7.00%	Jun-10
NextEra Mountain Prairie Wind	NextEra	273	Onshore	Operating	USD	305	20	NA	/ / BBB-	6.56%	Mar-10
[Confidential]	[Confidential]	643	Onshore	Operating	USD	202	NA	NA	/ / BBB-	Conf.	Dec-08
Breeze Finance S.A.	Theolia	350	Onshore	Both	EUR	455	20	10	Aaa / AAA / AAA	5.42%	Apr-07
FPL Energy Bison Wind	FPL Energy	200	Onshore	Operating	USD	206	20	NA	/ / BBB-	6.66%	Jun-06
Alte Liebe 1 Ltd.	Plambeck	142	Onshore	Operating	EUR	102	19	NA	/ BBB- /	4.70%	May-06
CRC Breeze Finance S.A.	Theolia	350	Onshore	Both	EUR	355	20	NA	/ BBB /	5.29%	May-05
FPL National Wind Portfolio	FPL Energy	534	Onshore	Operating	USD	100	14	7	Ba2 / BB- / BB	6.12%	Mar-05
FPL National Wind	FPL Energy	534	Onshore	Operating	USD	365	19	9	Baa3 / BBB- / BBB	5.61%	Feb-05
Max Two Ltd.	Energiekontor	81	Onshore	Both	EUR	100	20	NA	/ BBB- /	5.70%	Sep-04
FPL Energy Wind Funding	FPL Energy	697	Onshore	Operating	USD	125	14	7	Ba2 / BB- /	6.88%	Dec-03
FPL Energy American Wind	FPL Energy	697	Onshore	Both	USD	380	20	9	Baa3 / BBB- /	6.63%	Jun-03



Trends and Highlights

A wide variety of wind assets has been financed through the Project Bond market. Depending on the characteristics of the project, different structures have been successfully placed. The following section discusses some of these trends.

Construction Financing for Wind Assets

Historically, wind projects in the Capital Markets have primarily been operating or brownfield assets. The first transaction with significant construction risk exposure was Alta Wind Holdings in 2010 (\$579MM in 144a senior secured notes for a 570MW project in California); however, the construction risk exposure was largely mitigated with a fully wrapped EPC contract.

Rating agencies perceive construction risk for onshore wind projects as relatively low compared with other power plants. The construction period tends to be one to two years and entails limited technological challenges. Provided the project relies on experienced EPC and equipment suppliers, rating agencies note that construction risk is not a limiting factor in itself to achieve an investment-grade rating.

Offshore wind projects are more complex. In particular, they entail more interconnection challenges and a greater number of contractors due to maritime logistics. Despite these additional challenges, Fitch and Standard & Poor's have indicated that investment-grade ratings could be achieved for greenfield offshore wind projects.

Approaching Construction Risk: Case Study

In July 2010, Alta Wind Holdings issued \$579MM in 144a senior secured notes for the construction financing of three wind farm locations. Moody's and Standard & Poor's highlight that construction risk was mitigated because the project's turbines were provided by a reliable turbine manufacturer and the project's EPC contractor was well-experienced. Construction risk was further mitigated with a fixed-price, turnkey EPC contract and the EPC contractor's obligations were 100% backed by a performance bond. The rating agencies were able to get comfortable with these mitigants and the transaction was rated "BBB-."

Exposure to Merchant Risk

Even though most offerings were supported by fully contracted revenues some had exposure to merchant risk. It should be noted that while rating agencies may accept certain structures to mitigate merchant risk, it does not necessarily follow that all investors will be receptive to such offerings. Some insurance company investors still have investment criteria that prevent them from investing

in renewable projects exposed to merchant risk, no matter how the risk is mitigated.

There have been a few merchant risk exposed projects that have successfully satisfied both rating agency and investor requirements such as \$142MM Hatchet Ridge (2010) and €572MM and \$439MM WindMW (2015).

Approaching Merchant Risk: Case Study #1

In December 2010, Hatchet Ridge issued \$142MM in senior secured pass-through certificates in the 4(a)(2) Private Placement market to refinance the construction facility associated with a 101MW wind project in the US. The 19-year maturity of the certificates extended 4 years beyond the 15-year maturity of the PPA, introducing a merchant tail. This was the first-ever wind project transaction to achieve an investment grade rating with a merchant tail. The structure included different reserve accounts funded over the life of the transaction to cash collateralize the expected outstanding balance by the PPA maturity date. Given the novelty of the structure, the 4(a)(2) Private Placement format was preferred to allow investors more flexible time to conduct their own due diligence and get comfortable with the merchant tail and reserve mechanism.

Approaching Merchant Risk: Case Study #2

The 2015 WindMW offering (€572MM and \$439MM for an offshore wind farm in Germany) was also exposed to merchant risk. For this transaction, the 11.5-year maturity of the notes was co-terminus with the feed-in-tariff period of the project, but investors were exposed to refinancing risk since the structure was not fully amortizing. To reduce exposure to merchant risk, a reserve was structured to partially collateralize the balloon payment at maturity. During the final years of the transaction, the level of funding of the reserve is, in part, indexed to spot and forward energy prices. In essence, if spot prices decrease below certain thresholds, funding of the reserve from project cash flows is required.

New Assets: Offshore Wind

Before 2015, no offshore wind assets had been financed with Project Bonds. Two successful issuances opened the doors for this asset class: In September 2015 Gode Wind 1 €556MM in senior secured HoldCo notes for a greenfield 330MW offshore wind farm in Germany and in December 2015 WindMW €572MM and \$439MM in senior secured notes for a 288MW offshore wind farm in Germany. Of note, both transactions were rated investment-grade.



Offshore Wind: Case Study

The €556MM HoldCo financing for Gode Wind 1 was a first-of-its-kind transaction in Germany. The transaction fully amortizes over the 10-year feed-in-tariff period and was rated "BBB" by Euler Hermes, a credit insurance company. The project was still under construction and funding was available through delayed draws. Half of the transaction was taken by a single German institutional investor with 19 other German institutional investors filling the book.

Wind Project Bonds in New Geographies

Wind financings in the Capital Markets are continuing to expand their reach as they access new geographies. While the majority of issuances have historically come out of North America and EMEA, a number of transactions are coming from emerging markets and some were issued in local currencies.

The Oaxaca II Wind Farm and Oaxaca IV Wind Farm transactions (\$150MM and \$149MM in 144a senior secured notes for two similar 102MW projects in Mexico) were the first Latin America transactions to tap the international Capital Markets in August 2012. Since this time, Energia Eolica \$204MM in 144a senior secured notes for a 114MW wind farm in Peru issued in December 2014 and Demex Oaxaca 1 MXN 2,100MM in senior secured notes for a 90MW wind farm in Mexico issued in January 2016 have also successfully issued in the Capital Markets.

Local Issuances for Wind Financings: Case Study

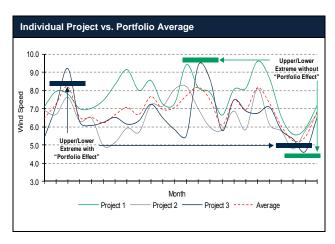
Demex Oaxaca 1 issued MXN 2,100MM in senior secured notes in Mexico's local Capital Markets in January 2016 for an operating 90MW wind farm in Mexico. The transaction was rated locally by Standard & Poor's (AA) and HR Ratings (AA), a Mexican rating agency. The transaction was entirely placed with the Mexican Afores. The fact that the issuance was in MXN and locally rated demonstrates that there is the local expertise necessary for Capital Markets transactions.

Portfolio Financing Benefits

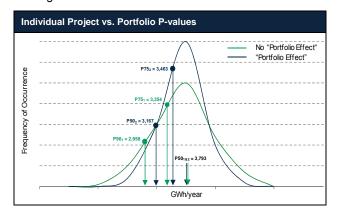
There are two key advantages to portfolio financing: (i) Portfolio Effect, and (ii) increased liquidity.

Portfolio financings can benefit from a "Portfolio Effect", that would allow a portfolio of assets to support a larger debt amount than if each project was financed individually.

In essence, for different wind regimes evaluated as a portfolio, extreme wind conditions are balanced on average, as presented on the diagram below.



Utilizing this averaging effect through the reduction in wind variability allows for an increased overall P90 energy production output, which in turn allows for increased leverage.



In the graphs above, while the value of P50 energy production is the same, P75 and P90 levels in the "Portfolio Effect" case are higher.

Portfolio financing is also interesting when combining small projects that may not be financed on a stand-alone basis. A portfolio financing provides economies of scale and reduces transaction costs. In addition, during the marketing period, small offerings tend to attract fewer investors. Some of them may be reluctant to review an investment opportunity if they fear their final allocation will be small or below their minimum investment thresholds. Combining assets allows for larger, more visible transactions, with increased liquidity for investors.

Portfolio Effect Benefits: Case Study

In 2013, Continental Wind issued \$613MM in 144a senior secured notes to refinance a portfolio of 13 operating wind projects with an aggregate capacity of 667MW spread across 6 states. The Continental Wind Portfolio had technology, offtaker, and wind resource diversity. Investors had exposure to five different wind regimes and five different turbine manufacturers. In addition, the



transaction was rated by three rating agencies: Moody's, Standard & Poor's, and Fitch; each of which agreed that the portfolio diversity helped to mitigate the collective wind resource volatility and gave credit to the Portfolio Effect. The independent engineer for the transaction estimated this Portfolio Effect to be 5.3% due to the geographical and technological diversity of the portfolio.

Rating Agencies

Rating agencies approach wind financing by applying their generic project finance criteria complemented by wind-focused methodologies and commentary articles.

Rating agencies regularly update their methodologies as they rate new asset types and structures. For example, the development of offshore wind has led to the publication of articles and research reports from most agencies to specifically address the risks associated with such assets. Their criteria also evolved based on the performance of rated transactions.

The table below presents the main sizing criteria and reserves associated with investment-grade ratings for Moody's, Standard & Poor's, Fitch, DBRS and Kroll. Investment-grade offerings usually share the following main characteristics: PPA with investment-grade counterparties, fully amortizing profile over the PPA tenor, no or mitigated construction risk, experienced parties and proven technology. Items that may constrain the rating to below-investment grade include unproven technology of turbines, exposure to merchant risk, sub-investment-grade counterparties, wind resource unreliability, and country risk. These particular aspects of the transaction do not necessarily prevent successful offerings but may require additional liquidity and credit enhancement.

	Fitch	Standard & Poors	Moody's	DBRS	Kroll
Applicable Methodologies and Select Research	"Rating Criteria for Infrastructure and Project Finance" (Sep 2015) "Rating Criteria for Wind Projects" (Mar 2016) "Offshore Wind Projects" (Apr 2016)	"Project Finance Framework Methodology" (Sep 2014) "Key Rating Factors for Power Project Financings" (Sep 2014) "With Offshore Wind Projects Set To Take Flight, What Factors Will Move Ratings?" (Feb 2016)	"Generic Project Finance Methodology" (Dec 2010) "Power Generation Projects" (Dec 2012) "Offshore wind projects: New Investment Opportunities Present New Credit Challenges, But These Can Be Mitigated" (Nov 2014)	"DBRS methodology Rating Project Finance" (August 2014) "Rating Wind Power Projects" (Dec 2015)	"Project Finance Rating Methodology" (Nov 2013)
DSCR Indication for Investment Grade Rating	P90 (1-year) generation Additional specific adjustments to cash flows Min DSCR≥ 1.30x for adjusted contracted cash flows Min DSCR≥ 2.00x for adjusted merchant cash flows	P90 (1-year) generation Min DSCR≥ 1.40x for contracted cash flows Min DSCR≥ 2.00x for merchant cash flows	P90 (1-year) or P95 (1-year) generation Min DSCR≥ 1.40x for contracted cash flows Min DSCR≥ 3.50x for merchant cash flows	P90 (1-year) generation Min DSCR 2 1.35x for contracted cash flows No exposure to merchant revenues	Generation assumption not specified Min DSCR≥ 1.30x for contracted cash flows
Base Case Assumptions and Adjustments	Energy production haircut: 0% to 10% Grid curtailment adjustment (as informed by a third-party assessment) Availability: 92% to 97% O&M costs: increase of up to 20% over-base case expenses Other adjustments may be applied on a case by case basis	Inflation rate: 2% Degradation: 0.50% Availability: 94% to 98.5% O&M cost: increase of 5% to 10% over pro forma costs Other adjustmentsmay be applied on a case by case basis	No specific adjustments/ assumptions specified for Base Case scenario Adjustments may be applied on a case by case basis	No specific adjustments / assumptions specified for Base Case scenario Adjustments may be applied on a case by case basis	No specific adjustments / assumptions specified for Ba Case scenario Adjustments may be applied a case by case basis
Other Structural Considerations	6-month Debt Service Reserve Account 6-month Operation & Maintenance Account Distribution Test	6-month Debt Service Reserve Account 6-month Operation & Maintenance Account Distribution Test	6-month Debt Service Reserve Account 6-month Operation & Maintenance Account Distribution Test	6 to 12-month Debt Service Reserve Account 6-month Operation & Maintenance Account Distribution Test 6 to 12-month tail on PPA tenor	6 to 12-month Debt Service Reserve Account 6 to 12-month Operation & Maintenance Account Distribution Test

Conclusion

The Capital Markets have been a reliable and proven source of financings and refinancings for wind assets

globally. We have seen, overtime, investors and rating agencies get more comfortable with greenfield risk exposure, merchant risk exposure, and emerging market country risk exposure. We have also seen the emergence, most recently, of a new wind asset class: offshore wind.

Project Bond Focus

Issue 3 | Project Bonds: New Energies - Wind

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