ATLANTIC POWER CORP Form S-1/A June 15, 2012

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As filed with the Securities and Exchange Commission on June 14, 2012 $\,$

Registration No. 333-181225

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

AMENDMENT NO. 1 TO FORM S-1

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

ATLANTIC POWER CORPORATION

(Exact Name of Registrant as Specified in Its Charter)

British Columbia, Canada (State or Other Jurisdiction of Incorporation or Organization) 4900

(Primary Standard Industrial Classification Code Number) One Federal Street, Floor 30 Boston, Massachusetts 02110 (617) 977-2400

(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal Executive Offices)

> Barry E. Welch President and Chief Executive Officer Atlantic Power Corporation One Federal Street, Floor 30 Boston, Massachusetts 02110 (617) 977-2400

(Name, Address, Including Zip Code, and Telephone Number, Including Area Code, of Agent For Service)

Yoel Kranz, Esq. James P. Barri, Esq. Goodwin Procter LLP Copies to:

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55-0886410 (I.R.S. Employer Identification Number)

Exchange Place Boston, Massachusetts 02109 Tel: (617) 570-1000 Fax: (617) 523-1231 1285 Avenue of the Americas New York, New York 10019-6064 Tel: (212) 373-3000 Fax: (212) 757-3990

Approximate date of commencement of proposed sale to the public: As soon as practicable after this Registration Statement becomes effective.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box: o

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definition of "larger accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

| Large accelerated filer ý | Accelerated filer o | Non-accelerated filer o | Smaller reporting company o | | | | |
|---------------------------|---------------------------------|----------------------------|-----------------------------|--|--|--|--|
| | | (Do not check if a | | | | | |
| | | smaller reporting company) | | | | | |
| | CALCULATION OF REGISTRATION FEE | | | | | | |
| | | | | | | | |

| | Title of Securities to be Registered | Proposed Maximum Aggregate Offering Price | Amount of Registration Fee |
|---|---|---|-------------------------------|
| Convertible Unsecured Subordinated Debe | ntures | \$149,500,000(1) | \$17,132.70(3) |
| Common Shares, no par value | | (2) | (3)(4) |

(1)

(2)

(3)

(4)

Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(o) under the Securities Act of 1933, as amended, or the Securities Act. Includes the offering price of the Debentures that may be purchased by the underwriter pursuant to its option to purchase additional debentures.

Represents the number of common shares, no par value, issuable upon conversion of the debentures. Pursuant to Rule 416 under the Securities Act, the common shares being registered hereby also include an indeterminate number of additional shares resulting from stock splits, dividends or similar transactions.

Pursuant to Rule 457(i) under the Securities Act, there is no additional filing fee with respect to the common shares issuable upon conversion of the debentures because no additional consideration will be received in connection with the exercise of the conversion privilege.

\$14,325 of the registration fee was paid with the initial filing of the Registration Statement on May 8, 2012.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until this registration statement shall become effective on such date as the Securities and Exchange

Commission, acting pursuant to said Section 8(a), may determine.

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The information in this preliminary prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is declared effective. This preliminary prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale of such securities is not permitted.

SUBJECT TO COMPLETION PRELIMINARY PROSPECTUS DATED JUNE 14, 2012

PROSPECTUS

\$130,000,000

% Series C Convertible Unsecured Subordinated Debentures due

and

Common Shares Issuable Upon Conversion of the Debentures

We are selling \$130,000,000 aggregate principal amount of our % series C convertible unsecured subordinated debentures due (the "Debentures"), at a price of \$1,000 per \$1,000 principal amount of Debentures. The Debentures have a maturity date of and bear interest at an annual rate of % payable semi-annually in arrears.

Each Debenture will be convertible into our common shares at the option of the holder at any time prior to the close of business on the earlier of the maturity date and the business day immediately preceding the date specified by us for redemption of the Debentures at a conversion price of \$ per common share, being a conversion rate of approximately common shares per \$1,000 principal amount of Debentures, subject to adjustment in accordance with the trust indenture governing the terms of the Debentures. We will not receive any proceeds from the issuance of the common shares upon conversion of the Debentures.

The Debentures may not be redeemed by us on or before (except in certain limited circumstances involving a change in control). After and prior to , we may redeem the Debentures, in whole or in part, at a redemption price equal to their principal amount plus accrued and unpaid interest, provided that the volume weighted average price of our common shares on the New York Stock Exchange (the "NYSE") for the 20 consecutive trading days ending five trading days preceding the date on which notice of redemption is given is not less than 125% of the conversion price. On or after and prior to the maturity date, we may redeem the Debentures, in whole or in part, at a price equal to their principal amount plus accrued and unpaid interest. See "Description of Debentures Redemption and purchase."

The Debentures constitute a new issue of our securities for which there is currently no public market. As of March 31, 2012, we had \$726.1 million of debt outstanding that ranks equal with or senior to the Debentures, and we expect to incur additional debt in the future. The amount at March 31, 2012 is comprised of \$72.8 million outstanding under our revolving credit facility, \$193.3 million of outstanding convertible debentures and \$460.0 million of outstanding senior notes. In addition, as of March 31, 2012, our subsidiaries had \$72.2 million of liabilities, all of which would rank structurally senior to the Debentures. Our outstanding common shares are listed the Toronto Stock Exchange (the "TSX") under the symbol "ATP" and on the NYSE under the symbol "AT." The last reported sale price of our common shares on June 14, 2012 on the TSX and the NYSE was Cdn\$13.97 and \$13.69 per common share, respectively. See "Exchange rate information" on page 23 for information regarding the exchange rate between Canadian dollars and U.S. dollars.

Investing in the Debentures involves risks. You should read the section entitled "Risk factors" beginning on page 15 of this prospectus for a discussion of certain risk factors you should consider before buying the Debentures.

Neither the Securities and Exchange Commission ("SEC") nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

| | | Per | | | | |
|----------------------------------|-----------|-------|----|-------------|--|--|
| | Debenture | | | Total | | |
| Public offering price | \$ | 1,000 | \$ | 130,000,000 | | |
| Underwriting discount | \$ | | \$ | | | |
| Proceeds (before expenses) to us | \$ | | \$ | | | |

The underwriters have the option to purchase up to an additional \$19,500,000 aggregate principal amount of Debentures from us at the public offering price less the underwriting discount, to cover over-allotments, if any, within 30 days from the date of closing of this offering.

Book-entry only certificates representing the Debentures offered by this prospectus will be issued in registered form to CDS Clearing and Depository Services Inc. ("CDS") or its nominee as registered global securities and will be deposited with CDS on the date of issue of the Debentures, which is expected to occur on or about , 2012 or such later date as we and the underwriters may agree, but in any event no later than , 2012.

Book-Running Manager

TD Securities

, 2012.

The date of this prospectus is

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You should rely only on information contained in this document or to which we have referred you. We have not, and our underwriters have not, authorized anyone to provide any information or to make any representations other than those contained in this prospectus or in any free writing prospectuses we have prepared or, for purchasers in Canada, the Canadian prospectus relating to this offering. If anyone provides you with different or inconsistent information, you should not rely on it. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. We are not, and the underwriters are not, making an offer to sell the securities in any jurisdiction where the offer or sale is not permitted. This document may only be used where it is legal to sell these securities.

As used in this prospectus, the terms "Atlantic Power," the "Company," "we," "our" and "us" refer to Atlantic Power Corporation, together with those entities owned or controlled by Atlantic Power Corporation, unless the context indicates otherwise. Unless otherwise noted, all references to "Cdn\$" and "Canadian dollars" are to the lawful currency of Canada and all references to "\$," "US\$" and "U.S. dollars" are to the lawful currency of the United States. This prospectus includes our trademarks and other trade names identified herein. All other trademarks and trade names appearing in this prospectus are the property of their respective holders.

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PROSPECTUS SUMMARY

The following summary may not contain all the information that may be important to you or that you should consider before deciding to purchase any Debentures and is qualified in its entirety by the more detailed information appearing elsewhere in this prospectus. You should read the entire prospectus, especially the risks set forth under the heading "Risk factors" in this prospectus, as well as the financial and other information included or incorporated by reference herein, before making an investment decision.

Atlantic Power Corporation

Atlantic Power Corporation owns and operates a diverse fleet of power generation and infrastructure assets in the United States and Canada. Our power generation projects sell electricity to utilities and other large commercial customers largely under long-term power purchase agreements ("PPAs"), which seek to minimize exposure to changes in commodity prices. Our power generation projects in operation have an aggregate gross electric generation capacity of approximately 3,397 megawatts (or "MW") in which our aggregate ownership interest is approximately 2,141 MW. Our current portfolio consists of interests in 31 operational power generation projects across 11 states in the United States and two provinces in Canada and a 500-kilovolt 84-mile electric transmission line located in California. In addition, we have one 53 MW biomass project under construction in Georgia and one approximately 300 MW wind project under construction in Oklahoma. We also own a majority interest in Rollcast Energy Inc. ("Rollcast"), a biomass power plant developer in North Carolina. Twenty-three of our projects are wholly-owned subsidiaries.

The following map shows the location of our currently-owned projects, including joint venture interests, across the United States and Canada:

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| | Project Name | Location | Fuel Type | Total MW | Ownership Interest | Net MW |
|----|-----------------------|-------------------|--------------|-------------|-----------------------|-----------|
| 1 | Auburndale | Auburndale FL | Natural Gas | 155 | 100% | 155 |
| 2 | Badger Creek | Bakersfield CA | Natural Gas | 46 | 50% | 23 |
| 3 | Cadillac | Cadillac MI | Biomass | 40 | 100% | 40 |
| 4 | Calstock | Hearst ON | Biomass | 35 | 100% | 35 |
| 5 | Canadian Hills | El Reno OK | Wind | 298 | 99% | 295 |
| 6 | Chambers | Carney's Point NJ | Coal | 263 | 40% | 105 |
| 7 | Curtis Palmer | Corinth NY | Hydro | 60 | 100% | 60 |
| 8 | Delta Person | Albuquerque NM | Natural Gas | 132 | 40% | 53 |
| 9 | Frederickson | Tacoma WA | Natural Gas | 250 | 50% | 125 |
| 10 | Greeley | Greeley CO | Natural Gas | 72 | 100% | 72 |
| 11 | Gregory | Corpus Cristi TX | Natural Gas | 400 | 17% | 68 |
| 12 | Idaho Wind | Twin Falls ID | Wind | 183 | 28% | 50 |
| 13 | Kapuskasing | Kapuskasing ON | Natural Gas | 40 | 100% | 40 |
| 14 | Kenilworth | Kenilworth NJ | Natural Gas | 30 | 100% | 30 |
| 15 | Koma Kulshan | Concrete WA | Hydro | 13 | 50% | 6 |
| 16 | Lake | Umatilla FL | Natural Gas | 121 | 100% | 121 |
| 17 | Mamquam | Squamish BC | Hydro | 50 | 100% | 50 |
| 18 | Manchief | Brush CO | Natural Gas | 300 | 100% | 300 |
| | | Moresby | | | | |
| 19 | Moresby Lake | Island BC | Hydro | 6 | 100% | 6 |
| 20 | Morris | Morris IL | Natural Gas | 177 | 100% | 177 |
| 21 | Naval Station | San Diego CA | Natural Gas | 47 | 100% | 47 |
| 22 | Naval Training Ctr | San Diego CA | Natural Gas | 25 | 100% | 25 |
| 23 | Nipigon | Nipigon ON | Natural Gas | 40 | 100% | 40 |
| 24 | North Bay | North Bay ON | Natural Gas | 40 | 100% | 40 |
| 25 | North Island | San Diego CA | Natural Gas | 40 | 100% | 40 |
| 26 | Orlando | Orlando FL | Natural Gas | 129 | 50% | 65 |
| 27 | Oxnard | Oxnard CA | Natural Gas | 49 | 100% | 49 |
| 28 | Pasco | Tampa FL | Natural Gas | 121 | 100% | 121 |
| 29 | Path 15 | California | Transmission | NA | 100% | NA |
| 30 | Piedmont | Barnsville GA | Biomass | 53 | 98% | 53 |
| | | American Falls | | | | |
| 31 | Rockland | ID | Wind | 80 | 30% | 24 |
| | | Charlottesville | | | | |
| 32 | Rollcast | NC | NA | NA | 60% | NA |
| 33 | Selkirk | Bethlehem NY | Natural Gas | 345 | 18% | 64 |
| 34 | Tunis | Tunis ON | Natural Gas | 43 | 100% | 43 |
| | | Williams Lake | - Aturar Oub | .0 | 10070 | .5 |
| 35 | Williams Lake | BC | Biomass | 66 | 100% | 66 |
| | now, based on MW, the | | | | | |

The following charts show, based on MW, the diversification of our portfolio by geography, reporting segment and fuel type:

We sell the capacity and energy from our power generation projects under PPAs with a number of utilities and other parties. Under the PPAs, which have expiration dates ranging from 2012 to 2037, we

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receive payments for electric energy delivered to our customers (known as energy payments), in addition to payments for electric generating capacity (known as capacity payments). We also sell steam from a number of our projects to industrial purchasers under steam sales agreements. The transmission system rights associated with our power transmission project entitle us to payments indirectly from the utilities that make use of the transmission line.

Our power generation projects generally have long-term fuel supply agreements, typically accompanied by fuel transportation arrangements. In most cases, the term of the fuel supply and transportation arrangements corresponds to the term of the relevant PPAs. Many of the PPAs and steam sales agreements provide for the indexing or pass-through of fuel costs to our customers. In cases where there is no pass-through of fuel costs, we often attempt to mitigate the market price risk of changing commodity costs through the use of hedging strategies.

We directly operate and maintain more than half of our power generation fleet. We also partner with recognized leaders in the independent power industry to operate and maintain our other projects, including Caithness Energy, LLC ("Caithness"), Colorado Energy Management ("CEM"), Power Plant Management Services ("PPMS") and the Western Area Power Administration ("Western"). Under these operation, maintenance and management agreements, the operator is typically responsible for operations, maintenance and repair services.

Our common shares trade on the TSX under the symbol "ATP" and on the NYSE under the symbol "AT."

Our registered office is located at 355 Burrard Street, Suite 1900, Vancouver, British Columbia, Canada V6C 2G8 and our headquarters is located at One Federal Street, Floor 30, Boston, Massachusetts 02110 USA. Our telephone number in Boston is (617) 977-2400 and the address of our website is www.atlanticpower.com. We make available, free of charge, on our website our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. Additionally, we make available on our website, our Canadian securities filings.

Our Competitive Strengths

We believe we distinguish ourselves from other independent power producers through the following competitive strengths:

Diversified projects. Our power generation projects have an aggregate gross electric generation capacity of approximately 3,397 MW, and our net ownership interest in these projects is approximately 2,141 MW. These projects are diversified by fuel type, electricity and steam customers, and geography. The majority are located in the deregulated and more liquid electricity markets of California, the U.S. Mid-Atlantic and New York. We also have a power transmission project, known as the Path 15 project, that is regulated by the Federal Energy Regulatory Commission ("FERC"). Additionally, we have a 53 MW biomass project under construction in Georgia and an approximately 300 MW wind project under construction in Oklahoma.

Experienced management team. Our management team has a depth of experience in commercial power operations and maintenance, project development, asset management, mergers and acquisitions, capital raising and financial controls. Our network of industry contacts and our reputation allow us to access acquisition opportunities on a regular basis.

Stability of project cash flow. Many of our power generation projects currently in operation have been in operation for over ten years. Cash flows from each project are generally supported by PPAs with investment-grade utilities and other creditworthy counterparties. We believe that each

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project's combination of PPAs, fuel supply agreements and/or commodity hedges help stabilize operating margins.

Access to capital. Our shares are publicly traded on the NYSE and the TSX. We have a history of successfully raising capital through public offerings of equity and debt securities in Canada and the U.S., issuing public convertible debentures in Canada and bonds in the United States. We have also issued securities by way of private placement in the U.S. and Canada. In addition, we have used non-recourse project-level financing as a source of capital. Project-level financing can be attractive as it typically has a lower cost than equity, is non-recourse to Atlantic Power and amortizes over the term of the project's PPA. Having significant experience in accessing all of these markets provides flexibility such that we can pursue transactions in the most cost-effective market at the time capital is needed.

Strong in-house operations team complemented by leading third-party operators. We operate and maintain 17 of our power generation projects, which represent 44% of our portfolio's generating capacity, and the remaining 14 generation projects are operated by third-parties, who are recognized leaders in the independent power business. Affiliates of Caithness, CEM and PPMS operate projects representing approximately 19%, 14% and 8%, respectively, of the net electric generation capacity of our power generation projects. No other operator is responsible for the operation of projects representing more than 3% of the net electric generation capacity of our power generation projects.

Strong customer base. Our customers are generally large utilities and other parties with investment-grade credit ratings. The largest customers of our power generation projects, including projects recorded under the equity method of accounting, are Public Service Company of Colorado ("PSCo"), Progress Energy Florida, Inc. ("PEF") and Ontario Electricity Financial Corp. ("OEFC"), which purchase approximately 17%, 15% and 9%, respectively, of the net electric generation capacity of our power generation projects. No other electric customer purchases more than 6% of the net electric generation capacity of our power generation projects.

Our Objectives and Business Strategies

Our corporate strategy is to increase the value of the Company through accretive acquisitions in North American markets while generating stable, contracted cash flows from our existing assets to sustain our dividend payout to shareholders. In order to achieve these objectives, we intend to focus on enhancing the operating and financial performance of our current projects and pursuing additional accretive acquisitions primarily in the electric power industry in the United States and Canada.

Organic growth

Since the time of our initial public offering on the TSX in late 2004, we have twice acquired the interest of another partner in one of our existing projects and will continue to look for additional such opportunities. We intend to enhance the operation and financial performance of our projects through:

achievement of improved operating efficiencies, output, reliability and reduced operation and maintenance costs through the upgrade or enhancement of existing equipment or plant configurations;

optimization of commercial arrangements such as PPAs, fuel supply and transportation contracts, steam sales agreements, operations and maintenance agreements and hedge agreements; and

expansion of existing projects.

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Extending PPAs following their expiration

PPAs in our portfolio have expiration dates ranging from 2012 to 2037. In each case, we plan for expirations by evaluating various options in the market. New arrangements may involve responses to utility solicitations for capacity and energy, direct negotiations with the original purchasing utility for PPA extensions, "reverse" requests for proposals by the projects to likely bilateral counterparties, arrangements with creditworthy energy trading firms for tolling agreements, full service PPAs or the use of derivatives to lock in value. We do not assume that revenues or operating margins under existing PPAs will necessarily be sustained after PPA expirations, since most original PPAs included capacity payments related to return of and return on original capital invested, and counterparties or evolving regional electricity markets may or may not provide similar payments under new or extended PPAs.

Acquisition and investment strategy

We believe that new electricity generation will continue to be required in the United States and Canada as a result of growth in electricity demand, transmission constraints and the retirement of older generation projects due to obsolescence or environmental concerns. In addition, Renewable Portfolio Standards in over 31 states as well as renewables initiatives in several provinces have greatly facilitated attractive PPAs and financial returns for significant renewable project opportunities. While we are not greenfield developers ourselves, we work with experienced development companies to acquire pipelines of late stage development investment opportunities. There is also a very active secondary market for the purchase and sale of existing projects.

We intend to expand our operations by making accretive acquisitions with a focus on power generation, transmission and related facilities in the United States and Canada. We may also invest in other forms of energy-related projects, utility projects and infrastructure projects, as well as make additional investments in development stage projects or companies where the prospects for creating long-term predictable cash flows are attractive. In 2010, we purchased a 60% interest in Rollcast, a biomass developer out of North Carolina with a pipeline of development projects, in which we have the option but not the obligation to invest capital. We continue to assess development companies with strong late-stage development projects, and believe that there are opportunities in the market to enter into joint ventures with strong development teams.

Our management has significant experience in the independent power industry and we believe that our experience, reputation and industry relationships will continue to provide us with enhanced access to future acquisition opportunities.

Asset Management

Our asset management strategy is to ensure that our projects receive appropriate preventative and corrective maintenance and incur capital expenditures, if required, to provide for their safety, efficiency, availability and longevity. We also proactively look for opportunities to optimize power, fuel supply and other agreements to deliver strong and predictable financial performance. In conjunction with our acquisition of the 18 assets of Capital Power Income L.P. (subsequently renamed Atlantic Power Limited Partnership on February 1, 2012) (the "Partnership") through our direct and indirect acquisition of all of the issued and outstanding limited partnership units of the Partnership, the personnel that operated and maintained the assets of the Partnership became employees of Atlantic Power. The staff at each of the facilities has extensive experience in managing, operating and maintaining the assets. Personnel at Capital Power Corporation regional offices that provided support in operations management, environmental, health and safety, and human resources also joined Atlantic Power. In combination with the existing staff of Atlantic Power, we have a dedicated and experienced operations and commercial management organization that is well regarded in the energy industry.

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For operations and maintenance services at the 14 projects in our portfolio which we do not operate, we partner with recognized leaders in the independent power business. Most of our third-party operated projects are managed by Caithness, CEM, PPMS and, in the case of Path 15, Western, a U.S. Federal power agency. On a case-by-case basis, these third-party operators may provide: (i) day-to-day project-level management, such as operations and maintenance and asset management; (ii) partnership level management, such as insurance renewals and annual budgets; and (iii) partnership level management, such as acting as limited partner. In some cases these project managers or the project partnerships may subcontract with other firms experienced in project operations, such as General Electric, to provide for day-to-day plant operations. In addition, employees of Atlantic Power with significant experience managing similar assets are involved in all significant decisions with the objective of proactively identifying value-creating opportunities such as contract renewals or restructurings, asset-level refinancings, add-on acquisitions, divestitures and participation at partnership meetings.

Caithness is one of the largest privately-held independent power producers in the United States. For over 25 years, Caithness has been actively engaged in the development, acquisition and management of independent power facilities for its own account as well as in venture arrangements with other entities. Caithness operates our Auburndale, Lake and Pasco projects and provides other asset management services for our Orlando, Selkirk and Badger Creek projects.

CEM is an energy infrastructure management company specializing in operations and maintenance, asset management and construction management for independent power producers and investors. With over 25 years of experience in operations and maintenance management, CEM focuses on revenue growth through continuous operational improvement and advanced maintenance concepts. Clients of CEM include independent power producers, municipalities and plant developers. CEM operates our Manchief facility.

PPMS is a management services company focused on providing senior level energy industry expertise to the independent power market. Founded in 2006, PPMS provides management services to a large portfolio of solid fuel and gas-fired generating stations including our Selkirk and Chambers facilities. Previously, Cogentrix provided services to these facilities. Western owns and maintains the Path 15 transmission line. Western transmits and delivers hydroelectric power and related services within a 15-state region of the central and western United States. They are one of four power marketing administrations within the U.S. Department of Energy whose role is to market and transmit electricity from multi-use water projects. Western's transmission system carries electricity from 57 power plants. Together, these plants have an operating capacity of approximately 8,785 MW.

Recent Developments

Acquisition of Capital Power Income L.P.

On November 5, 2011, we directly and indirectly acquired all of the issued and outstanding limited partnership units of the Partnership, in exchange for approximately Cdn\$506.5 million in cash and 31.5 million of our common shares. The Partnership's portfolio consisted of 19 wholly-owned power generation assets located in both Canada and the United States, a 50.15% interest in a power generation asset in the state of Washington, and a 14.3% common ownership interest in Primary Energy Recycling Holdings LLC ("PERH"). At the acquisition date, the transaction increased the net generating capacity of our projects by 143% from 871 MW to approximately 2,116 MW. We did not purchase two of the Partnership's assets located in North Carolina. We remain headquartered in Boston, Massachusetts and added offices in Chicago, Illinois, Toronto, Ontario, Richmond and Vancouver, British Columbia. Additionally, the Capital Power Corporation employees that operated and maintained the Partnership's assets and most of those who provided management support of operations, accounting, finance, and human resources became employees of Atlantic Power.

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Acquisition of Rockland Wind

On December 28, 2011, we purchased a 30% interest for \$12.5 million in the Rockland Wind Project ("Rockland"), an 80 MW wind farm near American Falls, Idaho, that began operations in early December 2011. The Rockland Wind Project sells power under a 25-year PPA with Idaho Power. Rockland is accounted for under the equity method of accounting.

Acquisition of Canadian Hills Wind Power Development Project

On January 31, 2012, Atlantic Oklahoma Wind, LLC ("Atlantic OW"), a Delaware limited liability company and a wholly owned subsidiary of Atlantic Power, entered into a purchase and sale agreement with Apex Wind Energy Holdings, LLC, a Delaware limited liability company ("Apex"), pursuant to which Atlantic OW acquired a 51% interest in Canadian Hills Wind, LLC, an Oklahoma limited liability company ("Canadian Hills") for a nominal sum. Canadian Hills is the owner of a 298.45 MW wind energy project under construction in the State of Oklahoma. On March 30, 2012, we completed the purchase of an additional 48% interest in Canadian Hills for a nominal amount, bringing our total interest in the project to 99%. Apex retained a 1% interest in the project.

At the time, we also closed a \$310 million non-recourse, project-level construction financing facility for the project. The facility includes a \$290 million construction loan and a \$20 million 5-year letter of credit facility. Proceeds from the construction loan were used, in part, to repay Atlantic Power \$29.3 million in member loans that were made to the project to fund construction prior to closing the construction financing facility. The construction loan is structured to be repaid with a tax equity investment, which we are actively pursuing, by institutional investors at the time Canadian Hills commences commercial operations.

In connection with the closing of the construction financing facility on March 30, 2012, we committed to invest approximately \$180 million in equity (net of financing costs) to cover the balance of the construction and development costs, expected to be drawn following the final disbursement of the construction loan. We have received an approximately \$360 million bridge facility commitment (the "Bridge Facility") from Morgan Stanley to provide flexibility in the timing of the tax equity investment and our own equity commitment in the project.

Canadian Hills executed PPAs for all of its output with Southwestern Electric Power Company (201.25 MW), Oklahoma Municipal Power Authority (49.2 MW), and Grand River Dam Authority (48 MW).

PERH Interest Sale

On February 16, 2012, we entered into an agreement with Primary Energy Recycling Corporation ("PERC"), whereby PERC will purchase our 14.3% common membership interests in PERH for approximately \$24 million, plus a management agreement termination fee of approximately \$6.1 million for a total price of \$30.1 million. The transaction closed on May 31, 2012 and we received proceeds of approximately \$30.2 million.

Path 15

In February 2011, we filed a rate application with the FERC to establish Path 15's revenue requirement at \$30.3 million for the 2011-2013 period. On March 7, 2012, Path 15 filed a formal settlement agreement establishing a revenue requirement at \$28.8 million with the Administrative Law Judge for her review and certification to FERC for approval. The FERC approved the settlement agreement on May 23, 2012.

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DuPont Litigation

In December 2008, the Chambers project, our investment in which is accounted for under the equity method of accounting, filed suit against E.I. du Pont de Nemours & Company ("DuPont") for breach of the energy services agreement related to unpaid amounts associated with disputed price change calculations for electricity. DuPont subsequently filed a counterclaim for an unspecified level of damages. In February 2011, the Chambers project received a favorable ruling from the court on its summary judgment motion as to liability. The court's decision included a description of the pricing methodology that is consistent with the project's position. On April 25, 2012, the court issued its written opinion which ordered DuPont to pay Chambers a total of approximately \$15.7 million. This amount represents DuPont's electricity underpayments from January 2003 through June 2009, and interest through July 22, 2011. The court also ordered that from July 1, 2009 going forward, the pricing methodology should be calculated in accordance with the court's prior ruling on summary judgment. On May 18, 2012, the court issued a final judgment in the amount of \$16.2 million. The Chambers project has submitted an additional \$9.0 million in invoices to DuPont based on the calculation of electricity for underpayments and interest for the periods outside those covered by the final summary judgment.

DuPont has 45 days from the date of the final judgment to file an appeal. It is anticipated that DuPont will file a motion to stay payment of damages pending appeal.

Concurrent Offering of Common Shares

Concurrently with this offering, we are also conducting a separate public offering of 6,000,000 common shares (plus up to an additional 900,000 common shares that we may issue and sell upon the exercise of the underwriters' option to purchase additional shares).

This offering is not conditioned upon the successful completion of the concurrent offering of common shares and the concurrent offering of common shares."

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The Offering

| Issuer | Atlantic Power Corporation, a British Columbia corporation. |
|----------------------|--|
| Maturity | The Debentures will mature on . |
| Interest rate | % per annum. |
| Payment date | Interest will be payable semi-annually in arrears on the day of and in each year (or the immediately following business day if any interest payment date would not otherwise be a business day) commencing on , computed on the basis of a 360-day year composed of twelve 30-day months. The interest payment will represent accrued interest for the period from the closing date of this offering up to, but excluding . See "Description of Debentures General." |
| Conversion privilege | Each Debenture will be convertible into the Company's common shares at the option of the holder at any time prior to the close of business on the earlier of the maturity date and the business day immediately preceding the date specified by the Company for redemption of the Debentures, at a conversion price of \$ per common share, being a ratio of approximately common shares per \$1,000 principal amount of Debentures, subject to adjustment in accordance with the trust indenture governing the terms of the Debentures (the "Indenture"). See "Description of Debentures Conversion privilege." |
| Redemption | The Debentures may not be redeemed by the Company on or before (except in certain limited circumstances following a change of control (as defined herein)). After and prior to , the Debentures may be redeemed by the Company, in whole or in part from time to time, on not more than 60 days and not less than 30 days prior notice, at a redemption price equal to the principal amount thereof plus accrued and unpaid interest, provided that the volume weighted average price of our common shares on the NYSE for the 20 consecutive trading days ending five trading days preceding the date on which notice of redemption is given is not less than % of the conversion price. On or after and prior to the maturity date, the Debentures may be redeemed in whole or in part at the option of the Company on not more than 60 days and not less than 30 days prior notice at a price equal to their principal amount plus accrued and unpaid interest. See "Description of Debentures Redemption and purchase." |

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Change of control

Optional payment at maturity or upon redemption

On redemption or on maturity, provided that no event of default (as defined herein) shall have occurred and be continuing, the Company may, at its option, on not more than 60 days and not less than 40 days prior notice and subject to regulatory approval, elect to satisfy its obligation to repay the principal amount of the Debentures by issuing and delivering that number of common shares obtained by dividing the principal amount of the outstanding Debentures which are to be redeemed or have matured by 95% of the volume weighted average price of the common shares on the NYSE for the 20 consecutive trading days ending five trading days preceding the date fixed for redemption or maturity, as the case may be. See "Description of Debentures Payment upon redemption or maturity."

Upon the occurrence of certain change of control events involving the Company, each holder of Debentures may require the Company to purchase, on a date which is within 30 days following the giving of notice of the change of control the Debentures at a price equal to 100% of the principal amount thereof plus accrued and unpaid interest thereon. If 90% or more of the principal amount of the Debentures outstanding on the date of the notice of change of control have been tendered, the Company will have the right to redeem all the remaining Debentures at the offer price. See "Description of Debentures Repurchase upon a change of control." Subject to regulatory approval, in the event of a change of control where 10% or more of the consideration for our common shares in the transaction or transactions constituting a change of control consists of cash, equity securities that are not traded or intended to be traded immediately following such transactions on a stock exchange, or other property that is not traded or intended to be traded immediately following such transactions on a stock exchange, holders of the Debentures may elect to convert their Debentures and receive, in addition to the number of common shares they otherwise would have been entitled to under "Conversion Privilege," an additional number of common shares as outlined in the table set forth under "Description of Debentures Cash change of control."

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| Ranking | The Debentures will rank subordinate to all existing and future senior secured and senior unsecured indebtedness of the Company including all trade creditors, and will rank <i>pari passu</i> to any future subordinated unsecured indebtedness. See "Description of Debentures Subordination." As of March 31, 2012, we had \$726.1 million of debt outstanding that ranks equal with or senior to the Debentures, and we expect to incur additional debt in the future. The amount at March 31, 2012 is comprised of \$72.8 million outstanding under our revolving credit facility, \$193.3 million of outstanding convertible debentures and \$460.0 million of outstanding senior notes. In addition, as of March 31, 2012, our subsidiaries had \$72.2 million of liabilities, all of which would rank structurally senior to the Debentures. |
|--|--|
| Risk factors | Prospective purchasers should carefully review and evaluate certain risk factors relating to an investment in the Debentures, including, but not limited to trading market for Debentures, repayment of the Debentures, absence of covenant protection, redemption on a change of control, redemption prior to maturity, conversion following certain transactions, credit risk, subordination of Debentures, discretion in the use of proceeds and possibility of withheld amounts. See "Risk factors." |
| United States and Canadian federal income tax considerations | You should consult your tax advisor with respect to the U.S. and Canadian federal income tax consequences of owning the Debentures and the common shares into which the Debentures may be converted in light of your own particular situation and with respect to any tax consequences arising under the laws of any state, local, foreign or other taxing jurisdiction. See "Certain United States federal income tax considerations" and "Certain Canadian federal income tax considerations." |
| Concurrent public offering of common shares | Concurrently with this offering, we are also conducting a separate public offering of 6,000,000 common shares (plus up to an additional 900,000 common shares that we may issue and sell upon the exercise of the underwriters' option to purchase additional shares). This offering is not conditioned upon the successful completion of the concurrent offering of common shares and the concurrent offering of common shares is not conditioned upon the successful completion of common shares." |

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|-------------------|--|
| Use of proceeds | We expect to receive net proceeds from this offering of approximately \$ million after deducting the underwriting discount and our estimated expenses (or approximately \$ million if the underwriters exercise their option to purchase additional Debentures in full). We intend to use the net proceeds from this offering, along with the net proceeds we receive from our concurrent offering of common shares, to fund our equity commitment in Canadian Hills. Any remaining net proceeds will be used to fund additional growth opportunities and for general corporate purposes. See "Use of proceeds." |
| Listing | The Debentures constitute a new issue of securities of the Company for which there is currently no public market. Our outstanding common shares are listed on the TSX under the symbol "ATP" and on the NYSE under the symbol "AT." |

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Summary Historical Consolidated Financial Data

The following table presents summary consolidated financial information for Atlantic Power. The annual historical information as of December 31, 2011 and 2010 and for the years ended December 31, 2011, 2010 and 2009 has been derived from the audited consolidated financial statements appearing in Atlantic Power's Annual Report on Form 10-K for the year ended December 31, 2011, incorporated by reference into this prospectus. The annual historical information as of December 31, 2009, 2008 and 2007 and for the years ended December 31, 2008 and 2007 has been derived from historical financial statements not incorporated by reference into this prospectus. The historical information as of December 31, 2011 has been derived from the unaudited consolidated financial statements appearing in Atlantic Power's Quarterly Report on Form 10-Q for the quarter ended March 31, 2012, incorporated by reference into this prospectus. Data for all periods have been prepared under U.S. GAAP. You should read the following selected consolidated financial information together with Atlantic Power's consolidated financial statements and the notes thereto and the discussion under "Management's Discussion and Analysis of Financial Condition and Results of Operations" included as part of Atlantic Power's Annual Report on Form 10-K for the year ended December 31, 2011, as amended, and Quarterly Report on Form 10-Q for the quarter ended March 31, 2012, each of which is incorporated by reference into this prospectus. See "Where you can find more information" beginning on page 63 of this prospectus.

| | | | | | | | Three Mon | ths End |
|--|----|------------|-----------|------------|-----------|-----------|------------|---------|
| | | | Year Ende | ed Decembe | r 31, | | Marc | h 31, |
| usands of US dollars, except per share/subordinated note data and as otherwise stated) | | 2011 | 2010 | 2009 | 2008 | 2007 | 2012(a) | 2011 |
| t revenue | \$ | 284,895 \$ | 195,256 | \$179,517 | \$173,812 | \$113,257 | \$ 167,610 | \$ 5. |
| t (loss) income | | 33,979 | 41,879 | 48,415 | 41,006 | 70,118 | (24,650) | 14 |
| oss) income attributable to Atlantic Power Corporation | | (38,408) | (3,752) | (38,486) | 48,101 | (30,596) | (42,292) | (|
| earnings (loss) per share | | (0.50) | (0.06) | (0.63) | 0.78 | (0.50) | (0.37) | |
| earnings (loss) per share, Cdn\$(b) | | (0.49) | (0.06) | (0.72) | 0.84 | (0.53) | (0.37) | |
| d earnings (loss) per share(c) | | (0.50) | (0.06) | (0.63) | 0.73 | (0.50) | (0.37) | |
| d earnings (loss) per share, Cdn\$(b)(c) | | (0.49) | (0.06) | (0.72) | 0.78 | (0.53) | (0.37) | |
| pution per subordinated note(d) | | | | 0.51 | 0.60 | 0.59 | | |
| end declared per common share | | 1.11 | 1.06 | 0.46 | 0.40 | 0.40 | 0.29 | |
| assets | 3 | 3,248,427 | 1,013,012 | 869,576 | 907,995 | 880,751 | 3,475,710 | 1,00 |
| long-term liabilities | 1 | 1,940,192 | 518,273 | 402,212 | 654,499 | 715,923 | 1,940,073 | 504 |
| | | | | | | | | |

(a)

Unaudited.

(b)

The Cdn\$ amounts were converted using the average exchange rates for the applicable reporting periods.

(c)

Diluted earnings (loss) per share is computed including dilutive potential shares, which include those issuable upon conversion of convertible debentures and under our long term incentive plan. Because we reported a loss during the years ended December 31, 2011, 2010, 2009 and 2007, the effect of including potentially dilutive shares in the calculation during those periods is anti-dilutive.

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Please see the notes to our historical consolidated financial statements incorporated by reference into this prospectus for information relating to the number of shares used in calculating basic and diluted earnings per share for the periods presented.

(d)

At the time of our initial public offering, our publicly traded security was an income participating security, or an "IPS," each of which was comprised of one common share and Cdn\$5.767 principal amount of 11% subordinated notes due 2016. On November 27, 2009, we converted from the IPS structure to a traditional common share structure. In connection with the conversion, each IPS was exchanged for one new common share.

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RISK FACTORS

Investing in the Debentures involves various risks, including those described below and those included in our Annual Report on Form 10-K for the year ended December 31, 2011, as amended, and our Quarterly Report on Form 10-Q for the quarter ended March 31, 2012, each of which is incorporated herein by reference. These risks are not the only ones faced by us. Additional risks not presently known or that we currently deem immaterial could also materially and adversely affect our financial condition, results of operations, business and prospects. The trading price of the Debentures as well as our common shares into which the Debentures will be convertible could decline due to any of these risks, and you may lose all or part of your investment. This prospectus also contains forward-looking statements that involve risks and uncertainties. Actual results could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including the risks faced by us described below and elsewhere in this prospectus. Please refer to the section entitled "Cautionary statements regarding forward-looking statements" in this prospectus.

Risks Relating to this Offering

We have not identified any specific use of the net proceeds of this offering in the event we do not use net proceeds to fund our equity commitment in Canadian Hills.

This offering is not conditioned on our investment in Canadian Hills and there can be no assurance that Canadian Hills will commence commercial operations in a timely manner or at all. If we do not use the net proceeds of this offering to fund our equity commitment in Canadian Hills for any reason, our board of directors and management will have broad discretion over the use of the net proceeds we receive following this offering and might not apply the net proceeds in ways that increase the trading price of our common shares. Any funds received may be used by us for any corporate purpose, which may include pursuit of other business combinations, expansion of our operations, share repurchases or other uses. The failure of our management to use the net proceeds from this offering effectively could have an adverse effect on our business and may have an adverse effect on our earnings per share.

Our results of operations may differ significantly from the unaudited pro forma condensed combined consolidated statement of operations included in this prospectus.

This prospectus includes an unaudited pro forma condensed combined consolidated statement of operations for the fiscal year ended December 31, 2011 to illustrate the effects of our acquisition of the Partnership on our historical financial position and operating results. The unaudited pro forma condensed combined consolidated statement of operations combines the historical consolidated statements of operations of Atlantic Power and the Partnership, giving effect to the acquisition as if it had occurred on January 1, 2011. This unaudited pro forma financial information is presented for illustrative purposes only and does not necessarily indicate the results of operations that would have resulted had the acquisition been completed at the beginning of the period presented, nor is it indicative of the results of operations in future periods or the future financial position of the combined company.

Investment eligibility

There can be no assurance that our common shares or Debentures will continue to be qualified investments under relevant Canadian tax laws for trusts governed by registered retirement savings plans, registered retirement income funds, deferred profit sharing plans, registered education savings plans, registered disability savings plans and tax-free savings accounts.

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Risks Relating to the Debentures

There is no trading market for the Debentures

The Debentures constitute a new issue of securities of the Company for which there is currently no public market. Even if the Debentures are listed on a public securities exchange or market, the Debentures may trade at a discount from their offering price depending on prevailing interest rates, the market for similar securities, our performance and other factors. No assurance can be given as to whether an active trading market will develop or be maintained for the Debentures. To the extent that an active trading market for the Debentures does not develop, the liquidity and trading prices for the Debentures may be adversely affected.

We may be unable to repay the Debentures

The Debentures mature on . We may not be able to refinance the principal amount of the Debentures in order to repay the principal outstanding or may not have generated enough cash from operations to meet this obligation. There is no guarantee that we will be able to repay the outstanding principal amount upon maturity of the Debentures. The Debentures will not be guaranteed by any of our subsidiaries, and any restrictions on the distribution of cash at the project level, such as due to restrictive covenants in project-level financing agreements, could materially limit our ability to pay principal and interest on the Debentures when due.

The Indenture will not have any covenant restriction protections

The trust indenture governing the Debentures does not restrict us or any of our subsidiaries from incurring additional indebtedness for borrowed money or otherwise from mortgaging, pledging or charging our real or personal property or properties to secure any indebtedness or other financing. The indenture does not contain any provisions specifically intended to protect holders of the Debentures in the event of a future leveraged transaction involving us or any of our subsidiaries.

We are obligated to redeem the Debentures on a change of control

We will be required to offer to purchase all outstanding Debentures upon the occurrence of a change of control. However, it is possible that following a change of control, we will not have sufficient funds at that time to make the required purchase of outstanding Debentures or that restrictions contained in other indebtedness will restrict those purchases. See "Description of Debentures" Change of control."

The Debentures may be redeemed prior to maturity

The Debentures may be redeemed, at our option, subject to certain conditions, after and prior to their maturity date in whole or in part, at a redemption price equal to the principal amount thereof, together with any accrued and unpaid interest, as described under "Description of Debentures Redemption and purchase." Holders of Debentures should assume that this redemption option will be exercised if we are able to refinance at a lower interest rate or it is otherwise in our interest to redeem the Debentures.

The Debentures may become convertible into other securities, cash or property following certain transactions

In the event of certain transactions, pursuant to the terms of the indenture, each Debenture will become convertible into securities, cash or property receivable by a holder of common shares in such transactions. This change could substantially reduce or eliminate any potential future value of the conversion privilege associated with the Debentures. For example, if we were acquired in a cash merger, each Debenture would become convertible solely into cash and would no longer be convertible

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into securities whose value would vary depending on our future prospects and other factors. See "Description of Debentures Conversion privilege."

If you hold Debentures, you will not be entitled to any rights with respect to our common shares, but you will be subject to all changes made with respect to our common shares.

If you hold Debentures, you will not be entitled to any rights with respect to our common shares (including, without limitation, voting rights and rights to receive any dividends or other distributions on our common shares, other than extraordinary dividends that our board of directors designates as payable to the holders of the Debentures), but if you subsequently convert your Debentures into common shares, you will be subject to all changes affecting the common shares. You will have rights with respect to our common shares only if and when we deliver common shares to you upon conversion of your Debentures and, to a limited extent, under the conversion rate adjustments applicable to the Debentures. For example, in the event that an amendment is proposed to our constating documents requiring shareholder approval and the record date for determining the shareholders of record entitled to vote on the amendment occurs prior to delivery of common shares to you, you will not be entitled to vote on the amendment, although you will nevertheless be subject to any changes in the powers or rights of our common shares that result from such amendment.

The Debentures will initially be held in book-entry form and, therefore, you must rely on the procedures and the relevant clearing systems to exercise your rights and remedies.

Unless and until certificated Debentures are issued in exchange for book-entry interests in the Debentures, owners of the book-entry interests will not be considered owners or holders of Debentures. Instead, the depository or its nominee will be the sole holder of the Debentures. Payments of principal, interest and other amounts owing on or in respect of the Debentures in global form will be made to the paying agent, which will make payments to CDS. Thereafter, such payments will be credited to CDS participants' accounts that hold book-entry interests in the notes in global form and credited by such participants to indirect participants. Unlike holders of the Debentures themselves, owners of book-entry interests will not have the direct right to act upon our solicitations for consents or requests for waivers or other actions from holders of the Debentures.

Instead, if you own a book-entry interest, you will be permitted to act only to the extent you have received appropriate proxies to do so from CDS or, if applicable, a participant. We cannot assure you that procedures implemented for the granting of such proxies will be sufficient to enable you to vote on any requested actions on a timely basis.

We may not be able to refinance the Debentures if required or if we so desire.

We may need or desire to refinance all or a portion of the Debentures or any other future indebtedness that we incur on or before the maturity of the Debentures. There can be no assurance that we will be able to refinance any of our indebtedness on commercially reasonable terms, if at all.

There is a credit risk associated with payment of the principal and interest on the Debentures

The likelihood that purchasers of the Debentures will receive payments owing to them under the terms of the Debentures will depend on our financial health and creditworthiness.

The rights and privileges of the Debenture holders are subordinate to our senior indebtedness

The Debentures are our unsecured obligations and are subordinate in right of payment to all of our existing and future senior indebtedness, including our convertible debentures issued on October 11, 2006 and our senior notes issued on November 4, 2011. In the event of our insolvency, bankruptcy, liquidation, reorganization, dissolution or winding up, the assets that serve as collateral for any senior

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indebtedness would be made available to satisfy the obligations of the creditors of such senior indebtedness before being available to pay our obligations to Debenture holders. Accordingly, all or a substantial portion of our assets could be unavailable to satisfy the claims of the Debenture holders.

Withholding tax

Effective January 1, 2008, the Tax Act (as defined below) was amended to generally eliminate withholding tax on interest paid or credited to non-residents of Canada with whom the payor deals at arm's length. However, Canadian withholding tax continues to apply to payments of "participating debt interest". For purposes of the Tax Act, participating debt interest is generally interest that is paid on an obligation where all or any portion of such interest is contingent or dependent on the use of or production from property in Canada or is computed by reference to revenue, profit, cash flow, commodity price or any similar criterion.

Under the Tax Act, when a debenture or other debt obligation issued by a person resident in Canada is assigned or otherwise transferred by a non-resident person to a person resident in Canada (which would include a conversion of the obligation or payment on maturity), the amount, if any, by which the price for which the obligation was assigned or transferred exceeds the price for which the obligation was issued is deemed to be a payment of interest on that obligations, although it is not clear whether a particular convertible debenture would qualify as an "excluded obligation". If a convertible debenture is not an "excluded obligation", issues that arise are whether any excess would be considered to exist, whether any such excess which is deemed to be interest is "participating debt interest", and if the excess is participating debt interest, whether that results in all interest on the obligation being considered to be participating debt interest.

The Canada Revenue Agency (the "CRA") has stated that no excess, and therefore no participating debt interest, generally would arise on the conversion of a "traditional convertible debenture" and therefore, there would be no withholding tax in such circumstances (provided that the payor and payee deal at arm's length for purposes of the Tax Act). The CRA has published guidance on what it believes to be a "traditional convertible debenture" for these purposes. The Debentures generally meet the criteria set forth in CRA's published guidance; however, the Indenture also contains additional terms which are not contemplated in the CRA's published guidance. Accordingly, the application of the CRA's published guidance is uncertain and there is a risk that amounts paid or payable by the Company to a holder of Debentures that is not resident in Canada on account of interest or any "excess" amount may be subject to Canadian withholding tax at 25% (subject to any reduction in accordance with the provisions of an applicable tax treaty).

The Indenture does not contain a requirement for us to increase the amount of interest or other payments to holders of Debentures should we be required to withhold amounts in respect of income or similar taxes on payments of interest or other amounts.

Other Canadian federal income tax risks

There can be no assurance that Canadian federal income tax laws and CRA's administrative policies respecting the Canadian federal income tax consequences generally applicable to us, to our subsidiaries, or to a U.S. or Canadian holder of Debentures or common shares will not be changed in a manner which adversely affects holders of our Debentures or common shares.

Passive foreign investment company treatment

We do not believe that we are a passive foreign investment company, and we do not expect to become a passive foreign investment company. However, if we were a passive foreign investment company while a taxable U.S. holder held common shares, such U.S. holder could be subject to an

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interest charge on any deferred taxation and the treatment of gain upon the sale of our stock as ordinary income. Additionally, if we were a passive foreign investment company while a taxable U.S. holder held Debentures, the interest charge and gain recharacterization rules described in the preceding sentence could potentially apply to such U.S. holder with respect to its Debentures, or to any common shares received upon a conversion of the Debentures.

Risks Relating to the Common Shares

Market conditions and other factors may affect the value of the common shares issuable upon conversion of the Debentures.

The trading price of the common shares issuable upon conversion of the Debentures will depend on many factors, which may change from time to time, including:

conditions in the power generation markets and the energy markets generally;

interest rates;

the market for similar securities;

government action or regulation;

general economic conditions or conditions in the financial markets;

our past and future dividend practice; and

our financial condition, performance, creditworthiness and prospects.

Accordingly, the common shares that a Debenture holder receives upon conversion of the Debentures, whether acquired in this offering or in the secondary market, may trade at a price lower than the conversion price.

The market price and trading volume of the common shares issuable upon conversion of the Debentures may be volatile.

The market price of the common shares may be volatile, particularly given the current economic environment. In addition, the trading volume in our common shares may fluctuate and cause significant price variations to occur. If the market price of our common shares declines significantly, you may be unable to resell your shares at or above the price at the time of conversion. The market price of our common shares may fluctuate or decline significantly in the future.

Some of the factors that could negatively affect our share price or result in fluctuations in the price or trading volume of our common shares include:

quarterly variations in our operating results or the quality of our assets;

changes in applicable regulations or government action;

operating results that vary from the expectations of management, securities analysts and investors;

changes in expectations as to our future financial performance;

announcements of innovations, new products, strategic developments, significant contracts, acquisitions and other material events by us or our competitors;

changes in financial estimates or publication of research reports and recommendations by financial analysts or actions taken by rating agencies with respect to us or other companies in our industry;

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the operating and securities price performance of other companies that investors believe are comparable to us;

changes in general market conditions, such as interest or foreign exchange rates, stock or commodity valuations, or volatility; and

actions by our current shareholders, including sales of our common shares by existing shareholders and/or directors and executive officers.

Stock markets in general have experienced significant volatility over the past two years, and continue to experience significant price and volume volatility. As a result, the market price of our common shares may continue to be subject to similar market fluctuations that may be unrelated to our operating performance or prospects. Increased volatility could result in a decline in the market price of our common shares.

Present and future offerings of debt or equity securities, ranking senior to our common shares, may adversely affect the market price of the common shares issuable upon conversion of the Debentures.

If we decide to issue debt or equity securities ranking senior to our common shares in the future it is likely that they will be governed by an indenture or other instrument containing covenants restricting our operating flexibility. Additionally, any convertible or exchangeable securities that we issue in the future may have rights, preferences and privileges more favorable than those of holders of our common shares and may result in dilution to holders of our common shares. We and, indirectly, our shareholders, will bear the cost of issuing and servicing such securities. Because our decision to issue debt or equity securities in any future offering will depend on market conditions and other factors, we cannot predict or estimate the amount, timing or nature of our future offerings. Thus, holders of our common shares will bear the risk of our future offerings reducing the market price of our common shares and diluting the value of their share holdings in us.

The number of shares available for future sale could adversely affect the market price of the common shares issuable upon conversion of the Debentures.

We cannot predict whether future issuances of our common shares or the availability of shares for resale in the open market will decrease the market price per common share. We may issue additional common shares, including securities that are convertible into or exchangeable for, or that represent the right to receive common shares. Sales of a substantial number of common shares in the public market or the perception that such sales might occur could materially adversely affect the market price of our common shares. Because our decision to issue securities in any future offering will depend on market conditions and other factors, we cannot predict or estimate the amount, timing or nature of our future offerings. Thus, our shareholders bear the risk of our future offerings reducing the market price of our common shares and diluting their share holdings in us.

The exercise of the underwriters' option to purchase additional Debentures, the exercise of any options granted to directors, executive officers and other employees under our stock compensation plans, and other issuances of our common shares could have an adverse effect on the market price of our common shares, and the existence of options may materially adversely affect the terms upon which we may be able to obtain additional capital through the sale of equity securities. In addition, future sales of our common shares may be dilutive to existing shareholders.

The redemption of Debentures for or repayment of principal by issuing common shares may cause common shareholders dilution.

We may determine to redeem outstanding Debentures for common shares or to repay outstanding principal amounts thereunder at maturity of the Debentures by issuing additional common shares.



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Concurrently with the offer of the Debentures, we are also conducting a separate public offering of common shares. The issuance of additional common shares may have a dilutive effect on shareholders and an adverse impact on the price of our common shares.

Provisions of our articles of continuance could discourage potential acquisition proposals and could deter or prevent a change in control.

We are governed by the *Business Corporations Act* (British Columbia). Our articles of continuance contain provisions that could have the effect of delaying, deferring or discouraging another party from acquiring control of our company by means of a tender offer, a proxy contest or otherwise. These provisions may make it more difficult for other persons, without the approval of our board of directors, to make a tender offer or otherwise acquire a substantial number of our common shares or to launch other takeover attempts that a shareholder might consider to be in his or her best interest. These provisions could limit the price that some investors might be willing to pay in the future for our common shares.

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CAUTIONARY STATEMENTS REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated by reference herein contain forward-looking statements within the meaning of the *Private Securities Litigation Reform Act of 1995* with respect to the financial condition, results of operations, business strategies, operating efficiencies, synergies, revenue enhancements, competitive positions, plans and objectives of management and growth opportunities of Atlantic Power Corporation, and with respect to the markets for Atlantic Power common shares and other matters. Statements in this prospectus and the documents incorporated by reference herein that are not historical facts are hereby identified as forward-looking statements for the purpose of the safe harbor provided by Section 27A of the Securities Act and Section 21E of the Exchange Act and forward-looking information within the meaning defined under applicable Canadian securities legislation (collectively, "forward-looking statements").

These forward-looking statements relate to, among other things, the expected benefits of the Canadian Hills project, such as accretion, the ability to pay increased dividends, enhanced cash flow, growth potential, liquidity and access to capital, market profile and financial strength, the position of the combined company and the expected timing of the commencement of commercial operations (if at all).

Forward-looking statements can generally be identified by the use of words such as "should," "intend," "may," "expect," "believe," "anticipate," "estimate," "continue," "plan," "project," "will," "could," "would," "target," "potential" and other similar expressions. In addition, any statements that refer to expectations, projections or other characterizations of future events or circumstances are forward-looking statements. Although we believe that the expectations reflected in such forward-looking statements are reasonable, such statements involve risks and uncertainties, and undue reliance should not be placed on such statements. Certain material factors or assumptions are applied in making forward-looking statements, including, but not limited to, factors and assumptions regarding the items outlined above. Actual results may differ materially from those expressed or implied in such statements. Important factors that could cause actual results to differ materially from these expectations include, among other things:

the amount of distributions expected to be received from our projects and our estimated net cash tax refunds;

the expected use of proceeds from this offering and our concurrent offering of common shares;

the impact of legislative, regulatory, competitive and technological changes; and

other risk factors relating to us and the power industry, as detailed from time to time in our filings with the SEC and the Canadian Securities Administrators.

You are cautioned that any forward-looking statement speaks only as of the date of this prospectus or, if such statement is included in a document incorporated by reference into this prospectus, as of the date of such other document. We undertake no obligation to update or revise any forward-looking statement, whether as a result of new information, future events or otherwise, except as may be required by applicable law.

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EXCHANGE RATE INFORMATION

The following table sets forth, for each period indicated, the high and low exchange rates for one U.S. dollar, expressed in Canadian dollars, the average of such exchange rates on the last day of each month during such period and the exchange rate at the end of such period, based on the noon buying rate as quoted by the Bank of Canada. On June 14, 2012, the noon buying rate was 1.00 = Cdn 1.0247.

| | Three Months Ended March 31, | | | | | | Twelve Months Ended December 31, | | | | | | | |
|------------|------------------------------|--------|-------|--------|-------|--------|----------------------------------|--------|-------|--------|-------|--------|-------|--------|
| | 20 | 12 | 20 | 11 | 20 |)11 | 20 |)10 | 20 |)09 | 20 | 008 | 20 | 007 |
| High | Cdn\$ | 1.0272 | Cdn\$ | 1.0022 | Cdn\$ | 1.0604 | Cdn\$ | 1.0778 | Cdn\$ | 1.3000 | Cdn\$ | 1.2969 | Cdn\$ | 1.1853 |
| Low | Cdn\$ | 0.9849 | Cdn\$ | 0.9686 | Cdn\$ | 0.9449 | Cdn\$ | 0.9946 | Cdn\$ | 1.0292 | Cdn\$ | 0.9719 | Cdn\$ | 0.9170 |
| Average | Cdn\$ | 1.0011 | Cdn\$ | 0.9855 | Cdn\$ | 0.9891 | Cdn\$ | 1.0299 | Cdn\$ | 1.1420 | Cdn\$ | 1.0660 | Cdn\$ | 1.0748 |
| Period End | Cdn\$ | 0.9991 | Cdn\$ | 0.9718 | Cdn\$ | 1.0170 | Cdn\$ | 0.9946 | Cdn\$ | 1.0466 | Cdn\$ | 1.2246 | Cdn\$ | 0.9881 |

Source: Bank of Canada

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USE OF PROCEEDS

We expect to receive net proceeds from this offering of approximately \$ million after deducting the underwriting discounts and our estimated expenses (or approximately \$ million if the underwriters exercise their option to purchase additional Debentures in full). We intend to use the net proceeds from this offering, along with the net proceeds we receive from our concurrent offering of common shares, to:

(i)

fund our equity commitment in Canadian Hills; and

(ii)

to the extent that any proceeds remain thereafter, to fund additional growth opportunities and for general corporate purposes.

This offering is not conditioned upon the successful completion of the concurrent offering of common shares and the concurrent offering of common shares is not conditioned upon the successful completion of this offering. We expect to receive net proceeds from the concurrent offering of common shares of approximately \$ million after deducting the underwriting discounts and our estimated expenses of the concurrent offering of common shares (or approximately \$ million if the underwriters exercise in full their option to purchase additional common shares).

If the concurrent offering of common shares is not successfully completed, we intend to use the net proceeds from this offering to fund our equity investment in Canadian Hills and to borrow from our existing revolving credit facility and/or draw on the \$360 million bridge facility commitment that we have received from Morgan Stanley to fund any deficiency.

This offering is not conditioned on our investment in Canadian Hills and there can be no assurance that Canadian Hills will commence commercial operations in a timely manner or at all.

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RATIO OF EARNINGS TO FIXED CHARGES

The following table sets forth our ratios of earnings to fixed charges for the periods indicated calculated on the basis of the U.S. GAAP financial statements included in this prospectus. For this purpose, "earnings" consists of earnings from continuing operations and distributed income of equity investees, excluding income taxes, non-controlling interests share in earnings and fixed charges, other than capitalized interest, and "fixed charges" consists of project-level interest expense and corporate level interest expense.

| | | Year En | Three Months Ended March 31, | | | |
|------------------------------------|------|---------|---------------------------------|------|------|------|
| | 2011 | 2010 | 2009 | 2008 | 2007 | 2012 |
| Ratio of Earnings to Fixed Charges | (1) | 2.08 | (1) | 2.24 | 1.58 | (1) |

(1)

For purposes of computing this ratio of earnings to fixed charges, fixed charges consist of project-level interest expense and corporate level interest expense. Earnings consist of earnings from continuing operations and distributed income of equity investees, excluding income taxes, non-controlling interests share in earnings and fixed charges, other than capitalized interest. Earnings were insufficient to cover fixed charges by \$43.9 million and \$54.2 million, for the years ended December 31, 2011 and 2009, respectively, and \$55.5 million for the three months ended March 31, 2012.

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DIVIDENDS AND DIVIDEND POLICY

On November 24, 2009, our shareholders approved our conversion to a common share structure. Subsequent to the conversion, we have continued to maintain our business strategy and each IPS was exchanged for one new common share. Following our acquisition of the Partnership in November 2011, our monthly dividend rate was increased to Cdn\$0.0958 per common share. Our entire current monthly cash distribution of Cdn\$0.0958 per common share is being paid as a dividend on the new common shares on the last business day of each month for holders of record on the last business day of the immediately preceding month. Future dividends are paid at the discretion of our board of directors subject to, among other things, our earnings and cash flow and are not guaranteed. The primary risk that impacts our ability to continue paying cash dividends at the current rate is the operating performance of our projects and their ability to distribute cash to us after satisfying project-level obligations.

Dividends declared per common share (or distributions per IPS) for each of the monthly periods shown below were as follows (Cdn\$):

| Month | 2012 | | 2011 | 2010 | 2009 | | |
|-----------|------|--------|--------------|------|--------|--------------|--|
| | | | Ame | ount | | | |
| January | \$ | 0.0958 | \$ 0.0912 | \$ | 0.0912 | \$ 0.0912 | |
| February | | 0.0958 | 0.0912 | | 0.0912 | 0.0912 | |
| March | | 0.0958 | 0.0912 | | 0.0912 | 0.0912 | |
| April | | 0.0958 | 0.0912 | | 0.0912 | 0.0912 | |
| May | | 0.0958 | 0.0912 | | 0.0912 | 0.0912 | |
| June | | | 0.0912 | | 0.0912 | 0.0912 | |
| July | | | 0.0912 | | 0.0912 | 0.0912 | |
| August | | | 0.0912 | | 0.0912 | 0.0912 | |
| September | | | 0.0912 | | 0.0912 | 0.0912 | |
| October | | | 0.0912 | | 0.0912 | 0.0912 | |
| November | | | 0.0958 | | 0.0912 | 0.0912 | |
| December | | | 0.0958 | | 0.0912 | 0.0912 | |
| | | | | | | 26 | |

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MARKET PRICE OF THE COMMON SHARES

The IPSs were listed and posted for trading on the TSX under the symbol "ATP.UN" from the time of our initial public offering in November 2004 through November 30, 2009. Following the closing of the exchange of IPSs for common shares, our new common shares commenced trading on the TSX on December 2, 2009 under the symbol "ATP." The following table sets forth the price ranges of the outstanding IPSs and common shares, as applicable, as reported by the TSX for the periods indicated:

| | High (Cdn\$) | Low (Cdn\$) | |
|--------------------------------------|--------------|-------------|--|
| 2009 | | | |
| First Quarter | \$ 9.28 | \$ 6.34 | |
| Second Quarter | 9.45 | 7.71 | |
| Third Quarter | 9.49 | 8.55 | |
| Fourth Quarter | 11.90 | 9.08 | |
| 2010 | | | |
| First Quarter | 13.85 | 11.50 | |
| Second Quarter | 12.90 | 11.20 | |
| Third Quarter | 14.47 | 12.11 | |
| Fourth Quarter | 15.18 | 13.31 | |
| 2011 | | | |
| First Quarter | 15.50 | 14.41 | |
| Second Quarter | 15.72 | 13.82 | |
| Third Quarter | 15.46 | 12.92 | |
| Fourth Quarter | 14.94 | 13.09 | |
| 2012 | | | |
| First Quarter | 15.11 | 13.60 | |
| Second Quarter (until June 14, 2012) | 14.27 | 13.47 | |

Our shares began trading on the NYSE under the symbol "AT" on July 23, 2010. The following table sets forth the price ranges of our outstanding common shares, as reported by the NYSE from the date on which our common shares were listed for the periods indicated:

| | Hi | gh (\$) | L | ow (\$) |
|---|----|---------|----|---------|
| 2010 | | | | |
| Third Quarter (beginning July 23, 2010) | \$ | 14.00 | \$ | 12.10 |
| Fourth Quarter | | 14.98 | | 13.26 |
| 2011 | | | | |
| First Quarter | | 15.75 | | 14.72 |
| Second Quarter | | 16.18 | | 14.33 |
| Third Quarter | | 16.34 | | 13.12 |
| Fourth Quarter | | 14.55 | | 12.52 |
| 2012 | | | | |
| First Quarter | | 15.22 | | 13.57 |
| Second Quarter (until June 14, 2012) | | 14.49 | | 13.00 |
| | | | | |

On June 14, 2012, there were 113,681,691 of our common shares issued and outstanding, and the number of holders of our common shares was approximately 84,700.

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CAPITALIZATION

The following table shows our cash and cash equivalents, and capitalization, as of March 31, 2012:

on an actual basis;

on an as adjusted basis to give effect to the sale of \$130.0 million of our % series C convertible unsecured subordinated debentures due , after deducting underwriting discounts and estimated transaction expenses payable by us, and application of the net proceeds therefrom as described under "Use of proceeds"; and

on an as further adjusted basis to give effect to the concurrent offering and sale of the common shares, at an assumed offering price of \$13.69 per share, the last reported sale price of our common shares on the NYSE on June 14, 2012, after deducting underwriting discounts and estimated transaction expenses payable by us, and application of the net proceeds therefrom as described under "Use of proceeds".

The completion of this offering of Debentures is not subject to the completion of the concurrent offering of common shares and the completion of the concurrent offering of common shares is not subject to the completion of this offering.

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You should read this table in conjunction with the section entitled "Use of proceeds" included elsewhere in this prospectus, in addition to our consolidated financial statements and related notes incorporated by reference herein.

| | | Actual | As of March 31, 201 As adjusted (unaudited) | 2 As further adjusted |
|--|----|-----------|--|-----------------------------|
| Cash and cash equivalents: | \$ | 106,609 | (in thousands) \$ | \$ |
| | Ψ | 100,007 | Ψ | Ψ |
| Debt: | | | | |
| Convertible debentures due 2014 | \$ | 44,966 | \$ | \$ |
| Convertible debentures due 2017 | | 67,602 | | |
| Convertible debentures due 2017 | | 80,701 | | |
| Convertible debentures due | | | | |
| Senior unsecured notes | | 460,000 | | |
| Corporate level debt | | 625,526 | | |
| Revolving credit facility | | 72,800 | | |
| Current portion of project-level debt | | 246,520 | | |
| Project-level debt | | 279,159 | | |
| Total debt: | | 1,877,274 | | |
| Shareholders' equity: | | | | |
| Common shares, no par value per share, unlimited authorized shares, 113,680,643 shares issued and outstanding, actual; 113,680,643 shares issued and outstanding, as adjusted; | | | | |
| 119,680,643 shares issued and outstanding, as further adjusted(1) | | 1,217,893 | | |
| Preferred shares issued by a subsidiary company | | 221,304 | | |
| Accumulated other comprehensive loss | | 12,216 | | |
| Retained deficit | | (395,743) | | |
| Total shareholder's equity | | 1,055,670 | | |
| Total capitalization | \$ | 2,932,944 | \$ | \$ |

(1)

Excludes (i) 13,252,000 shares issuable upon conversion, redemption, purchase for cancellation or maturity of our outstanding convertible debentures, (ii) any shares issuable upon exercise of the underwriters' over-allotment option in the concurrent offering of common shares, and (iii) 471,275 unvested notional units granted under the terms of our Long Term Incentive Plan.

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SELECTED HISTORICAL CONSOLIDATED FINANCIAL INFORMATION

The following table presents summary consolidated financial information for Atlantic Power. The annual historical information as of December 31, 2011 and 2010 and for the years ended December 31, 2011, 2010 and 2009 has been derived from the audited consolidated financial statements appearing in Atlantic Power's Annual Report on Form 10-K for the year ended December 31, 2011, as amended, incorporated by reference into this prospectus. The annual historical information as of December 31, 2009, 2008 and 2007 and for the years ended December 31, 2008 and 2007 has been derived from historical financial statements not incorporated by reference into this prospectus. The historical information as of, and for the three-month periods ended March 31, 2012 and 2011 has been derived from the unaudited consolidated financial statements appearing in Atlantic Power's Quarterly Report on Form 10-Q for the quarter ended March 31, 2012, incorporated by reference into this prospectus. Data for all periods have been prepared under U.S. GAAP. You should read the following selected consolidated financial information together with Atlantic Power's consolidated financial statements and the notes thereto and the discussion under "Management's Discussion and Analysis of Financial Condition and Results of Operations" included as part of Atlantic Power's Annual Report on Form 10-K for the year ended December 31, 2011, as amended, and Quarterly Report on Form 10-Q for the quarter ended March 31, 2012, each of which is incorporated by reference into this prospectus. See "Where you can find more information" beginning on page 63 of this prospectus.

| (in thousands of US dollars, except per share/subordinated note data and as otherwise | | Year End | Three Months Ended March 31, | | | | |
|---|------------|------------|---------------------------------|------------|------------|---------------|-----------|
| stated) | 2011 | 2010 | 2009 | 2008 | 2007 | 2012(a) | 2011(a) |
| Project revenue | \$ 284,895 | \$ 195,256 | \$ 179,517 | \$ 173,812 | \$ 113,257 | \$ 167,610 \$ | 53,665 |
| Project (loss) income | 33,979 | 41,879 | 48,415 | 41,006 | 70,118 | (24,650) | 14,869 |
| Net (loss) income attributable to | | | | | | | |
| Atlantic Power Corporation | (38,408) | (3,752) | (38,486) | 48,101 | (30,596) | (42,292) | 6,136 |
| Basic earnings (loss) per share | (0.50) | (0.06) | (0.63) | 0.78 | (0.50) | (0.37) | 0.09 |
| Basic earnings (loss) per share, Cdn\$(b) | (0.49) | (0.06) | (0.72) | 0.84 | (0.53) | (0.37) | 0.09 |
| Diluted earnings (loss) per share(c) | (0.50) | (0.06) | (0.63) | 0.73 | (0.50) | (0.37) | 0.09 |
| Diluted earnings (loss) per share, | | | | | | | |
| Cdn\$(b)(c) | (0.49) | (0.06) | (0.72) | 0.78 | (0.53) | (0.37) | 0.09 |
| Distribution per subordinated note(d) | | | 0.51 | 0.60 | 0.59 | | |
| Dividend declared per common share | 1.11 | 1.06 | 0.46 | 0.40 | 0.40 | 0.29 | 0.27 |
| Total assets | 3,248,427 | 1,013,012 | 869,576 | 907,995 | 880,751 | 3,475,710 | 1,007,801 |
| Total long-term liabilities | 1,940,192 | 518,273 | 402,212 | 654,499 | 715,923 | 1,940,073 | 504,492 |

⁽a)

Unaudited.

The Cdn\$ amounts were converted using the average exchange rates for the applicable reporting periods.

(c)

Diluted earnings (loss) per share is computed including dilutive potential shares, which include those issuable upon conversion of convertible debentures and under our long term incentive plan. Because we reported a loss during the years ended December 31, 2011, 2010, 2009 and 2007, the effect of including potentially dilutive shares in the calculation during those periods is anti-dilutive.

⁽b)

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Please see the notes to our historical consolidated financial statements incorporated by reference into this prospectus for information relating to the number of shares used in calculating basic and diluted earnings per share for the periods presented.

(d)

At the time of our initial public offering, our publicly traded security was an IPS, each of which was comprised of one common share and Cdn\$5.767 principal amount of 11% subordinated notes due 2016. On November 27, 2009, we converted from the IPS structure to a traditional common share structure. In connection with the conversion, each IPS was exchanged for one new common share.

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UNAUDITED PRO FORMA CONDENSED COMBINED CONSOLIDATED STATEMENT OF OPERATIONS

On November 5, 2011, we completed the direct and indirect acquisition of all the outstanding limited partnership interests of the Partnership. The following unaudited pro forma condensed combined consolidated statement of operations (which we refer to as the pro forma statement of operations) combines the historical consolidated statements of operations of Atlantic Power and the Partnership to illustrate the effect of the acquisition of the Partnership. An unaudited pro forma condensed combined consolidated balance sheet is not presented herein as the acquisition of the Partnership was effected prior to, and is reflected in, the audited consolidated balance sheet of Atlantic Power as of December 31, 2011.

The pro forma statement of operations and accompanying notes should be read in conjunction with:

audited consolidated financial statements of Atlantic Power for the year ended December 31, 2011 and the notes relating thereto included in Atlantic Power's Annual Report on Form 10-K for the year ended December 31, 2011 and incorporated by reference herein; and

audited consolidated financial statements of the Partnership for the year ended December 31, 2010 and the notes relating thereto, and the unaudited consolidated financial statements of the Partnership for the nine months ended September 30, 2011 and the notes relating thereto, each included as exhibits to Atlantic Power's Form 8-K/A filed with the SEC on December 20, 2011 and incorporated by reference herein.

The pro forma statement of operations is based on (i) the audited consolidated statement of operations of Atlantic Power for the year ended December 31, 2011 and the notes relating thereto, and (ii) the unaudited consolidated statement of operations of the Partnership for the period from January 1, 2011 to November 5, 2011. The historical consolidated statements of operations have been adjusted in the pro forma statement of operations to give effect to pro forma events that are (1) directly attributable to the acquisition of the Partnership, (2) factually supportable and (3) expected to have a continuing impact on the combined results. The pro forma statement of operations for the year ended December 31, 2011 gives effect to the acquisition of the Partnership as if it occurred on January 1, 2011.

As described in the accompanying notes, the pro forma statement of operations has been prepared using the acquisition method of accounting under existing United States generally accepted accounting principles, or GAAP, and the regulations of the SEC. Atlantic Power has been treated as the acquirer in the transaction for accounting purposes. Accordingly, the pro forma financial information is preliminary and has been made solely for the purpose of providing this unaudited pro forma condensed combined consolidated statement of operations. Differences between these preliminary estimates and the final acquisition accounting will occur and these differences could have a material impact on the pro forma financial information presented and the combined company's future results of operations and financial position.

The pro forma statement of operations has been presented for informational purposes only and is not necessarily indicative of what the combined company's results of operations and financial position would have been had the transaction been completed on the dates indicated. In addition, the pro forma statement of operations does not purport to project the future results of operations or financial position of the combined company.

ATLANTIC POWER CORPORATION AND ATLANTIC POWER LIMITED PARTNERSHIP UNAUDITED PRO FORMA CONDENSED COMBINED CONSOLIDATED STATEMENT OF OPERATIONS

For the Year Ended December 31, 2011 (in thousands, except per share data)

| | Н | AtlanticPowerPartnershipistoricalHistoricaluudited)(unaudited)(a)(a),(b), (1) | | Pro Forma Adjustments (c) | | Pro Forma Combined | | |
|--|----|---|----|---------------------------------|----|-----------------------|----|-----------|
| Project revenue: | \$ | 284,895 | \$ | 409,267 | \$ | | \$ | 694,162 |
| Project expenses: | | | | | | | | |
| Fuel | | 93,993 | | 170,704 | | | | 264,697 |
| Project operations and maintenance | | 56,832 | | 73,406 | | | | 130,238 |
| Depreciation and amortization | | 63,638 | | 73,236 | | 26,875(d) | | 163,750 |
| | | | | | | | | |
| | | 214,463 | | 317,346 | | 26,875 | | 558,684 |
| Project other income (expenses): | | | | | | | | |
| Change in fair value of derivative instruments | | (22,776) | | 1,043 | | | | (21,733) |
| Equity in earnings of unconsolidated affiliates | | 6,356 | | | | | | 6,356 |
| Interest expense, net | | (20,053) | | | | | | (20,053) |
| Other expense, net | | 20 | | | | | | 20 |
| | | (36,453) | | 1,043 | | | | (35,410) |
| Project income | | 33,979 | | 92,965 | | (26,875) | | 100,068 |
| Administrative and other expenses (income): | | | | | | | | |
| Administration | | 38,108 | | 45,375 | | | | 83,483 |
| Interest expense, net | | 25,998 | | 34,668 | | 37,145(e) | | 97,811 |
| Other expense, net | | | | | | | | |
| Foreign exchange gain | | 13,838 | | 10,077 | | | | 23,915 |
| | | | | | | | | |
| | | 77,944 | | 90,121 | | 37,145 | | 205,210 |
| | | , | | , | | , | | , |
| Income (loss) from operations before income taxes | | (43,965) | | 2,844 | | (64,020) | | (105,141) |
| Income tax expense | | (8,324) | | (2,669) | | (24,328)(f) | | (35,321) |
| meonie un expense | | (0,521) | | (2,00)) | | (21,320)(1) | | (33,321) |
| Net income (loss) | | (35,641) | | 5,513 | | (39,693) | | (69,821) |
| Net income (loss) attributable to noncontrolling interest | | 2,767 | | 10,770 | | (39,093) | | 13,537 |
| Net meone (1055) attributable to honcontrolling interest | | 2,707 | | 10,770 | | | | 15,557 |
| Net income (loss) attributable to Atlantic Power Corporation | \$ | (38,408) | \$ | (5,527) | \$ | (39,693) | \$ | (83,358) |
| EPS Basic | \$ | (0.50) | | (0.10) | | (0.13) | \$ | (0.73) |
| EPS Diluted | \$ | (0.50) | | (0.10) | | (0.13) | \$ | (0.73) |

⁽¹⁾

The Partnership historical results are recorded in Canadian dollars and are in accordance with IFRS. See Note 5(b) and (c) for an explanation of the conversion to U.S. dollars and U.S. GAAP.

See accompanying Notes to the Unaudited Pro Forma Condensed Combined Consolidated Statement of Operations, which are an integral part of this statement.

ATLANTIC POWER CORPORATION AND ATLANTIC POWER LIMITED PARTNERSHIP NOTES TO THE UNAUDITED PRO FORMA CONDENSED COMBINED CONSOLIDATED STATEMENT OF OPERATIONS

Note 1. Description of the Transaction

On November 5, 2011, we completed the direct and indirect acquisition of all of the outstanding limited partnership units of Capital Power Income L.P. (renamed Atlantic Power Limited Partnership on February 1, 2012, the "Partnership") pursuant to the terms and conditions of an Arrangement Agreement, dated June 20, 2011, as amended by Amendment No. 1, dated July 15, 2011 (the "Arrangement Agreement"), by and among us, the Partnership, CPI Income Services Ltd., the general partner of the Partnership and CPI Investments Inc., a unitholder of the Partnership that was then owned by EPCOR Utilities Inc. and Capital Power Corporation. The transactions contemplated by the Arrangement Agreement"). The Plan of Arrangement was approved plan of arrangement under the *Canada Business Corporations Act* (the "Plan of Arrangement"). The Plan of Arrangement was approved by the unitholders of the Partnership, and the issuance of our common shares to the Partnership unitholders pursuant to the Plan of Arrangement was approved by our shareholders, at respective special meetings held on November 1, 2011. A Final Order approving the Plan of Arrangement was granted by the Court of Queen's Bench of Alberta on November 1, 2011.

Under the terms of the Plan of Arrangement, the Partnership unitholders were permitted to exchange each of their Partnership units for, at their election, Cdn\$19.40 in cash or 1.3 of our common shares. All cash elections were subject to proration if total cash elections exceed approximately Cdn\$506.5 million and all share elections were subject to proration if total share elections exceed approximately 31.5 million of our common shares.

Pursuant to the Plan of Arrangement, the Partnership sold its Roxboro and Southport facilities located in North Carolina to an affiliate of Capital Power Corporation, for approximately Cdn\$121.4 million which equated to approximately Cdn\$2.15 per unit of the Partnership. In addition, in connection with the Plan of Arrangement, the management agreements between certain subsidiaries of Capital Power Corporation and the Partnership and certain subsidiaries of the Partnership were terminated (or assigned to us) in consideration of a payment of Cdn\$10.0 million. Atlantic Power and its subsidiaries assumed the management of the Partnership upon closing and entered into a transitional services agreement with Capital Power Corporation for a term of six to twelve months following closing to facilitate and support the integration of the Partnership into Atlantic Power.

Note 2. Basis of Pro Forma Presentation

The pro forma statement of operations was derived from historical consolidated statements of operations of Atlantic Power and the Partnership. Certain reclassifications have been made to the historical statement of operations of the Partnership to conform with Atlantic Power's presentation. This resulted in income statement adjustments to operating revenues, operating expenses, other income and deductions.

The historical consolidated statements of operations have been adjusted in the pro forma statement of operations to give effect to pro forma events that are (1) directly attributable to the transaction, (2) factually supportable, and (3) expected to have a continuing impact on the combined results. The following matters have not been reflected in the pro forma statement of operations as they do not meet the aforementioned criteria.

Cost savings (or associated costs to achieve such savings) from operating efficiencies, synergies or other restructuring that could result from the transaction with the Partnership. The timing and effect of actions associated with integration are currently uncertain.

The pro forma statement of operations was prepared using the acquisition method of accounting under U.S. GAAP and the regulations of the SEC. Atlantic Power has been treated as the acquirer in

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the transaction for accounting purposes. Acquisition accounting requires, among other things, that most assets acquired and liabilities assumed be recognized at fair value as of the acquisition date. In addition, acquisition accounting establishes that the consideration transferred be measured at the closing date of the transaction at the then-current market price. Since acquisition accounting is dependent upon certain valuations and other studies that have yet to commence or progress to a stage where there is sufficient information for a definitive measurement, the pro forma statement of operations is preliminary and has been prepared solely for the purpose of providing unaudited pro forma condensed combined consolidated financial information. Differences between these preliminary estimates and the final acquisition accounting will occur and these differences could have a material impact on the accompanying pro forma statement of operations and the combined company's future results of operations and financial position. The pro forma statement of operations has been presented for informational purposes only and is not necessarily indicative of what the combined company's results of operations would have been had the transaction been completed on the date indicated. In addition, the pro forma statement of operations does not purport to project the future results of operations or financial position of the combined company.

Note 3. Significant Accounting Policies

Based upon Atlantic Power's initial review of the Partnership's summary of significant accounting policies, as disclosed in the Partnership's consolidated historical financial statements elsewhere in this Prospectus, as well as on preliminary discussions with the Partnership's management, the pro forma condensed combined consolidated statement of operations assumes there will be certain adjustments necessary to conform the Partnership's accounting policies under International Financial Reporting Standards ("IFRS") to Atlantic Power's accounting policies under U.S. GAAP. Upon completion of the transaction and a more comprehensive comparison and assessment, differences may be identified that would necessitate changes to the Partnership's future accounting policies and such changes could result in material differences in future reported results of operations and financial position for the Partnership as compared to historically reported amounts.

Note 4. Estimated Purchase Price and Preliminary Purchase Price Allocations

Our acquisition of the Partnership is accounted for under the acquisition method of accounting as of the transaction closing date. The purchase price allocation for the business combination is estimated as follows (in thousands):

| Fair value of consideration transferred: | | |
|--|----|-----------|
| Cash | \$ | 601,766 |
| Equity | | 407,424 |
| | | |
| Total purchase price | \$ | 1,009,190 |
| r i i i i i i i i i i i i i i i i i i i | | ,, |
| Preliminary purchase price allocation | | |
| Working capital | \$ | 37,951 |
| Property, plant and equipment | | 1,024,015 |
| Intangibles | | 554,679 |
| Other long-term assets | | 224,295 |
| Long-term debt | | (621,551) |
| Other long-term liabilities | | (155,489) |
| Deferred tax liability | | (164,539) |
| | | |
| Total identifiable net assets | | 899,361 |
| Preferred shares | | (221,304) |
| Goodwill | | 331,133 |
| | | |
| Total purchase price | | 1,009,190 |
| Less cash acquired | | (22,683) |
| · | | |
| Cash paid, net of cash acquired | \$ | 986,507 |
| cash para, net or cash acquired | Ψ | 200,007 |
| | | 35 |
| | | 55 |

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The purchase price was computed using the Partnership's outstanding units as of June 30, 2011, adjusted for the exchange ratio at November 4, 2011. The purchase price reflects the market value of our common shares issued in connection with the transaction based on the closing price of our common shares on the Toronto Stock Exchange on November 4, 2011.

Note 5. Pro Forma Adjustments to Statement of Operations

The pro forma adjustments included in the pro forma statement of operations are as follows:

(a) Atlantic Power and the Partnership historical presentation Based on the amounts reported in the consolidated statements of operations of Atlantic Power for the year ended December 31, 2011 and the consolidated statements of operations of the Partnership for the period from January 1, 2011 to November 5, 2011. Certain financial statement line items included in the Partnership's historical presentation have been reclassified to corresponding line items included in Atlantic Power's historical presentation. These reclassifications had no impact on the historical operating income or net income from continuing operations reported by the Partnership.

(b) *The Partnership conversion to U.S. dollars* Based on the amounts reported in the historical consolidated statement of operations of the Partnership for the period from January 1, 2011 to November 5, 2011. The amounts have been converted from Canadian dollars to U.S. dollars using average exchange rates for the applicable period. The adjustments to revenues and expenses were not material to the Partnership's consolidated income statement.

(c) *The Partnership conversion to U.S. GAAP* Based on the amounts reported in the consolidated statement of operations of the Partnership for the period from January 1, 2011 to November 5, 2011. Certain financial statement line items included in the Partnership's historical presentation have been reclassified or adjusted to conform to U.S. GAAP presentation. For the period from January 1, 2011 to November 5, 2011, the Partnership statements conform to IFRS. The adjustments to revenues and expenses were not material to the Partnership's consolidated income statement.

(d) *Power Purchase Agreements and Plants* The pro forma statement of operations includes pro forma adjustments to reflect the increase in expense resulting from the amortization of the valuation adjustment related to the Partnership's intangibles and the depreciation of the plants.

(e) *Debt and Equity issuance* The proforma statement of operations includes proforma adjustments to reflect the net incremental interest expense resulting from Atlantic Power's issuance of 9% Senior Notes due 2018, the proceeds of which were used to partially fund the cash portion of the purchase price, and amortization of deferred financing costs of \$36.0 million and \$1.1 million, respectively, for the year ended December 31, 2011.

(f) Income Tax Benefit For purposes of the unaudited pro forma condensed combined consolidated statement of operations, tax benefits are provided at the Canadian enacted statutory rate of 25%. This rate does not reflect Atlantic Power's effective tax rate, which includes other tax items, such as non-deductible items, as well as other tax charges or benefits, and does not take into account any historical or possible future tax events that may impact the combined company.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth information regarding the beneficial ownership of our common shares as of June 14, 2012 with respect to:

each person (including any "group" of persons as that term is used in Section 13(d)(3) of the Exchange Act) who is known to us to be the beneficial owner of more than 5% of our outstanding common shares (none as of June 14, 2012);

each of our directors;

each of our named executive officers; and

all of our current directors and executive officers as a group.

The address of each beneficial owner listed in the following table is c/o Atlantic Power Corporation, One Federal Street, Floor 30, Boston, MA 02110.

Except as otherwise indicated in the footnotes to the following table, we believe, based on the information provided to us, that the persons named in the following table have sole voting and investment power with respect to the shares they beneficially own, subject to applicable community property laws.

| Name of beneficial owner | Number of common shares beneficially owned | Percentage of common shares beneficially owned(1) |
|---|--|---|
| Directors and named executive officers | | |
| Irving R. Gerstein | 10,582(2) | * |
| Kenneth M. Hartwick | 64,487(2) | * |
| John A. McNeil | 12,682(2) | * |
| R. Foster Duncan | 2,626(2) | * |
| Holli Ladhani | 5,036(2) | * |
| Barry E. Welch | 457,119(3) | * |
| Patrick J. Welch(4) | 89,205 | * |
| Lisa J. Donahue | | * |
| Paul H. Rapisarda | 165,754(3) | * |
| William B. Daniels | 22,629(3) | * |
| John J. Hulburt | 25,026(3) | * |
| All directors and executive officers as a group (10 persons)(5) | 765,941 | * |

Notes:

Less than 1%

(1)

The applicable percentage ownership is based on 113,681,691 common shares issued and outstanding as of June 14, 2012.

(2)

Common shares beneficially owned include units held in our deferred share unit plan of 182 for Irving R. Gerstein, 62,487 for Kenneth M. Hartwick, 182 for John A. McNeil, 1,126 for R. Foster Duncan and 5,036 for Holli Ladhani.

(3)

Common shares beneficially owned include unvested notional shares granted under our long-term incentive plan of 174,262 for Barry E. Welch, 97,103 for Paul H. Rapisarda, 21,696 for William B. Daniels and 19,026 for John J. Hulburt.

(4)

Patrick J. Welch is no longer employed by us. Information with respect to Patrick J. Welch's beneficial ownership is as of June 10, 2011, the date of his resignation from the Company.

(5)

Patrick J. Welch is not included in this group.

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DESCRIPTION OF CONCURRENT OFFERING OF COMMON SHARES

Concurrently with this offering, we are also conducting a separate public offering of 6,000,000 common shares (plus up to an additional 900,000 common shares that we may issue and sell upon the exercise of the underwriters' option to purchase additional shares).

The common shares are being offered by means of a separate prospectus, and not this prospectus. The completion of this offering of Debentures is not conditioned on the completion of the concurrent offering of common shares and the completion of the concurrent offering of common shares is not conditioned on the completion of this offering.

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DESCRIPTION OF DEBENTURES

The Debentures will be governed by the terms of the trust indenture, dated as of December 17, 2009, between us and Computershare Trust Company of Canada, as trustee (the "Debenture Trustee"), as supplemented by a second supplemental indenture to be entered into at closing between us and the trustee. We refer to the trust indenture as the "Indenture" and to the second supplemental indenture as the "Second Supplement." The following summary description sets forth some of the general terms and provisions of the Debentures and the Indenture. Because this is a summary description, it does not contain all of the information that may be important to you and is qualified in its entirety by reference to the Indenture, the Second Supplement and the form of the Debentures, which are filed as exhibits to the registration statement of which this prospectus forms a part.

General

The Debentures will be issued under and pursuant to the provisions of the Indenture and the Second Supplement. The Debentures will be limited to the aggregate principal amount of \$. The Company may, however, from time to time, without the consent of the holders of the outstanding debentures of the Company (including holders of the Debentures), issue debentures in addition to the Debentures offered hereby. The Debentures will be issuable only in denominations of \$1,000 and integral multiples thereof. At the closing of this offering, the Debentures will be available for delivery in book-entry form only through the facilities of CDS. Holders of beneficial interests in the Debentures will not have the right to receive physical certificates evidencing their ownership of Debentures except under certain circumstances described under "Description of Debentures Book entry, delivery and form." No fractional Debentures will be issued.

The Debentures will bear interest from the date of issue at % per annum, which will be payable semi-annually in arrears on the dav of and in each year, commencing on , computed on the basis of a 360-day year composed of twelve 30-day months. The first payment will represent accrued interest for the period from the closing of this offering up to, but excluding . The interest on the Debentures will be payable in lawful money of the United States of America as specified in the Indenture. Subject to any required regulatory approval and provided no event of default has occurred and is continuing, the Company shall have the option to pay such interest by delivering a number of common shares to an agent for sale, in which event holders of the Debentures will be entitled to receive a cash payment equal to the interest owed from the proceeds of the sale of the requisite number of common shares by the agent. The Indenture does not, and the Second Supplement will not, contain a requirement for the Company to increase the amount of interest or other payments to holders of Debentures should the Company become required to withhold amounts in respect of income or similar taxes on payment of interest or other amounts. See "Risk factors Risks relating to the Debentures Withholding tax."

The principal on the Debentures will be payable in lawful money of the United States of America or, at the option of the Company and subject to applicable regulatory approval, by delivery of common shares to satisfy in whole or in part its obligation to repay principal under the Debentures as further described under "Description of Debentures Payment upon redemption or maturity" and "Description of Debentures Redemption and purchase."

The Debentures will be direct obligations of the Company and will not be secured by any mortgage, pledge, hypothec or other charge and will be subordinated to other liabilities of the Company as described under "Description of Debentures" Subordination."

The Indenture does not, and the Second Supplement will not, restrict the Company from incurring additional indebtedness for borrowed money or from mortgaging, pledging or charging its assets to secure any indebtedness. The Debentures will be transferable, and may be presented for conversion, at the principal offices of the Debenture Trustee in Toronto, Ontario.

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The Debentures will mature on ("Maturity Date").

Conversion privilege

The Debentures will be convertible at the holder's option into common shares at any time prior to the close of business on the earlier of the Maturity Date and the last business day immediately preceding the date specified by the Company for redemption of the Debentures, at a conversion price of \$ per common share, being a ratio of approximately common shares per \$1,000 principal amount of Debentures. No adjustment will be made for dividends or distributions payable on common shares issuable upon conversion; however, holders converting their Debentures shall be entitled to receive, in addition to the applicable number of common shares, accrued and unpaid interest in respect thereof for the period up to but excluding the date of conversion from the latest interest payment date.

Subject to the provisions thereof, the Indenture provides for the adjustment of the conversion rights in certain events including: (i) the subdivision or consolidation of the outstanding common shares; (ii) the issue of common shares or securities convertible into common shares by way of stock dividend or other distribution; (iii) the issuance of options, rights or warrants to all or substantially all the holders of common shares entitling them to acquire common shares or other securities convertible into common shares at less than 95% of the then current market price of the common shares; and (iv) the distribution to all or substantially all holders of common shares of any securities or assets (other than cash dividends and equivalent dividends in securities paid in lieu of cash dividends in the ordinary course).

Provided the common shares are then listed on the NYSE, the term "current market price" is defined in the Indenture to mean the volume weighted average price of the common shares on the NYSE for the 20 consecutive trading days ending on the fifth trading day preceding the date of the applicable event.

There will be no adjustment of the conversion price in respect of any event described in (ii), (iii) or (iv) above if, subject to prior regulatory approval, if required, the holders of the Debentures are allowed to participate as though they had converted their Debentures prior to the applicable record date or effective date. The Company will not be required to make adjustments in the conversion price unless the cumulative effect of such adjustments would change the conversion price by at least 1%. In the case of any reclassification of the common shares or a capital reorganization of the Company (other than as described in (i) or (ii) above) or in case of any amalgamation, arrangement or merger of the Company with or into any other entity, or in the case of any sale or conveyance of the properties and assets of the Company as, or substantially as, an entirety to any other entity, or a liquidation, dissolution or winding-up of the Company, the terms of the conversion privilege shall be adjusted so that each Debenture shall, after such reclassification, capital reorganization, consolidation, amalgamation, arrangement or merger, sale or conveyance or liquidation, dissolution or winding-up or other similar transaction, be exercisable, in lieu of common shares, for the kind and amount of securities or property of the Company, or such continuing, successor or purchaser entity, as the case may be, which the holder thereof would have been entitled to receive as a result of such reclassification, capital reorganization, consolidation, amalgamation, arrangement or merger, sale or conveyance or liquidation, dissolution or winding-up or other similar transaction if on the effective date thereof it had been the holder of the number of common shares into which the Debenture was convertible prior to the effective date of such reclassification, capital reorganization, consolidation, amalgamation, arrangement or merger, sale or conveyance or liquidation, dissolution or winding-up or other similar transaction. For example, if the Company were to sell all of its properties and assets for cash consideration, any Debentures that remain outstanding following such sale would then be convertible into cash, in an amount per common share otherwise issuable upon conversion of the

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Debenture equal to the cash consideration per common share received by the holders of common shares pursuant to such sale.

No fractional common shares will be issued on any conversion of the Debentures, but in lieu thereof the Company shall satisfy such fractional interest by a cash payment equal to the current market price of such fractional interest. Upon conversion, the Company may offer, and the converting holder may agree to, the delivery of cash for all or a portion of the Debentures surrendered in lieu of common shares.

Redemption and purchase

The Debentures may not be redeemed by the Company on or before (except in certain limited circumstances following a change of control). See "Description of Debentures Repurchase upon a change of control." After and prior to , the Debentures may be redeemed at the option of the Company, in whole at any time or in part from time to time, on not more than 60 days and not less than 30 days prior notice, at a redemption price equal to the principal amount thereof plus accrued and unpaid interest, provided that the volume weighted average price of the common shares on the NYSE for the 20 consecutive trading days ending on the fifth trading day preceding the date on which notice of redemption is given is not less than % of the conversion price. On or after and prior to their maturity, the Debentures may be redeemed by the Company, in whole or in part from time to time, on not more than 60 days and not less than 30 days prior notice, at a redemption price equal to the principal amount thereof plus accrued and unpaid interest.

In the case of redemption of less than all of the Debentures, the Debentures to be redeemed will be selected by the Debenture Trustee on a *pro rata* basis or in such other manner as the Debenture Trustee deems equitable, subject to the consent of the TSX.

The Company will have the right to purchase Debentures in the market, by tender or by private contract subject to regulatory requirements; provided, however, that if an event of default (as defined herein) has occurred and is continuing, the Company will not have the right to purchase the Debentures by private contract.

Payment upon redemption or maturity

On redemption (the "Redemption Date") or on the maturity date, the Company will repay the indebtedness represented by the Debentures by paying to the Debenture Trustee in lawful money of Canada an amount equal to the principal amount of the outstanding Debentures, together with accrued and unpaid interest thereon. The Company may, at its option, on not more than 60 days and not less than 40 days prior notice and subject to any required regulatory approvals, unless an event of default has occurred and is continuing, elect to satisfy its obligation to repay, in whole or in part, the principal amount of the Debentures. The number of common shares to be issued will be determined by dividing the principal amount of the Debentures which are to be redeemed or have matured by 95% of the current market price of the common shares on the Redemption Date or maturity date, as the case may be.

No fractional common shares will be issued to holders of Debentures, but in lieu thereof, the Company shall satisfy such fractional interest by a cash payment equal to the current market price of such fractional interest.

The delivery of common shares to satisfy the Company's obligations under the Debentures may require regulatory approval, including filing a prospectus qualifying the distribution of such common shares or obtaining an exemptive relief order from the relevant Canadian securities regulators in the event that an exemption from the prospectus and registration requirements of applicable Canadian securities laws is not available at the time of the delivery of common shares. In addition, any issuance

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of common shares to satisfy the Company's obligations under the Debentures will be subject to the approval of the TSX and the NYSE (and any other exchange on which the common shares are listed at the relevant time).

Cancellation

All Debentures converted, redeemed or purchased will be cancelled and may not be reissued or resold.

Subordination

The payment of the principal of, and interest on, the Debentures will be subordinated in right of payment, in the circumstances referred to below and more particularly as set forth in the Indenture, to the prior payment in full of all existing and future Senior Indebtedness of the Company, including our revolving credit facility, the convertible debentures of the Company issued on October 11, 2006 and our senior notes issued on November 4, 2011. "Senior Indebtedness" of the Company is defined in the Indenture and includes: (a) indebtedness of the Company for borrowed money; (b) obligations of the Company evidenced by bonds, debentures, notes or other similar instruments; (c) obligations of the Company arising pursuant or in relation to bankers' acceptances, letters of credit and letters of guarantee (including payment and reimbursement obligations in respect thereof) or indemnities issued in connection therewith; (d) obligations of the Company under any swap, hedging or other similar contracts or arrangements; (e) obligations of the Company under guarantees, indemnities, assurances, legally binding comfort letters or other contingent obligations relating to the Senior Indebtedness or other obligations of any other person which would otherwise constitute Senior Indebtedness within the meaning of this definition, including the guarantee of the Company's revolving credit facility; (f) all indebtedness of the Company representing the deferred purchase price of any property including, without limitation, purchase money mortgages; (g) accounts payable to trade creditors; (h) all renewals, extensions and refinancing of any of the foregoing; and (i) all costs and expenses incurred by or on behalf of the holder of any Senior Indebtedness in enforcing payment or collection of any such Senior Indebtedness, including enforcing any security interest securing the same. The Debentures will be effectively structurally subordinate to claims of creditors (including trade creditors) of the Company's subsidiaries, including Atlantic Power Holdings, Inc. ("Holdings"). As of June 14, 2012, we had an aggregate amount of \$523.6 million of Senior Indebtedness outstanding.

The Debentures, the 6.25% convertible debentures we issued on December 17, 2009, the 5.60% convertible debentures we issued on October 20, 2010 and each other series of debentures issued under the Indenture or under indentures supplemental to the Indenture will rank *pari passu* with each other (regardless of their actual date or terms of issue).

The Indenture provides that in the event of any insolvency or bankruptcy proceedings, or any receivership, liquidation or reorganization or other similar proceedings relating to the Company, or to its property or assets, or in the event of any proceedings for voluntary liquidation, dissolution or other winding-up of the Company, whether or not involving insolvency or bankruptcy, or any marshalling of the assets and liabilities of the Company, then holders of Senior Indebtedness will receive payment in full before the holders of Debentures will be entitled to receive any payment or distribution of any kind or character, whether in cash, property or securities, which may be payable or deliverable in any such event in respect of any of the Debentures or any unpaid interest accrued thereon.

The Indenture also provides that the Company will not make any payment, and the holders of the Debentures will not be entitled to demand, institute proceedings for the collection of, or receive any payment or benefit (including, without any limitation, by set-off, combination of accounts or otherwise in any manner whatsoever) on account of indebtedness represented by the Debentures at any time when a default or an event of default has occurred with respect to any Senior Indebtedness permitting a senior creditor to demand payment or accelerate the maturity thereof and the notice of such default

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or event of default has been given by or on behalf of holders of Senior Indebtedness to the Company or the Company otherwise has knowledge thereof, unless such notice has been revoked, such default or event of default has been cured or the Senior Indebtedness has been repaid or satisfied in full as defined in the Indenture.

The Debenture Trustee and the Company will also be authorized (and obligated upon any request from certain holders of Senior Indebtedness) under the Indenture to enter into subordination agreements on behalf of the holders of Debentures with any holder of Senior Indebtedness.

Repurchase upon a change of control

Upon the occurrence of a change of control of the Company, the holders of the Debentures will have the right to require the Company to repurchase their Debentures, in whole or in part, at a price equal to 100% of the principal amount thereof (the "Offer Price") plus accrued and unpaid interest thereon. A change of control will be deemed to occur upon: (i) an acquisition by a person or group of persons acting jointly or in concert (within the meaning of the Securities Act (Ontario)) of ownership of, or voting control or direction over, 50% or more of the common shares; or (ii) the sale or other transfer of all or substantially all of the consolidated assets of the Company.

A change of control will not include a sale, merger, reorganization, or other similar transaction if the previous holders of the common shares hold at least 50% of the voting control in such merged, reorganized or other continuing entity.

If 90% or more of the aggregate principal amount of the Debentures outstanding on the date of the giving of notice of the change of control have been tendered for purchase following a change of control, the Company will have the right to redeem all the remaining Debentures on the purchase date, together with accrued and unpaid interest to such date. Notice of such redemption must be given to the Debenture Trustee by the Company within 10 days following expiry of the right to require repurchase after the change of control and, as soon as possible thereafter, by the Debenture Trustee to the holders of the Debentures not tendered for purchase.

The Indenture contains notification provisions to the effect that:

(a) the Company will promptly give written notice to the Debenture Trustee of the occurrence of a change of control and the Debenture Trustee will thereafter give to the Debenture holders a notice of the change of control, the right of the holders of Debentures to require repurchase and the right of the Company to redeem untendered Debentures under certain circumstances; and

(b) a Debenture holder, to exercise the right to require repurchase following the change of control, must deliver to the Debenture Trustee, not less than five business days prior to the date which is 30 days after the date the Debenture Trustee delivers notice of the change of control to the Debenture holder, written notice of the holder's exercise of the right to require repurchase, together with a duly endorsed form of transfer.

The Company will comply with the requirements of Canadian securities laws and regulations to the extent such laws and regulations are applicable in connection with the repurchase of the Debentures in the event of a change of control.

Cash change of control

In addition to the requirement for the Company to repurchase Debentures following a change of control, if a change of control occurs in which 10% or more of the consideration for the common shares in the transaction or transactions constituting a change of control consists of:

cash, other than cash payments for fractional common shares and cash payments made in respect of dissenter's appraisal rights;

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equity securities that are not traded or intended to be traded immediately following such transactions on a stock exchange; or

other property that is not traded or intended to be traded immediately following such transactions on a stock exchange,

then subject to regulatory approvals, during the period beginning ten trading days before the anticipated date on which the change of control becomes effective and ending 30 days after the notice of change of control and offer to repurchase Debentures is delivered, holders of Debentures will be entitled to convert their Debentures, subject to certain limitations, and receive, in addition to the number of common shares they would otherwise be entitled to receive as set forth under "Description of Debentures" Conversion privilege" above, an additional number of common shares per \$1,000 principal amount of Debentures as set forth below. Any such additional conversion entitlement shall be subject to the change of control transaction having been completed.

The delivery of common shares to satisfy the Company's obligations under the Debentures may require regulatory approval, including filing a prospectus qualifying the distribution of such common shares or obtaining an exemptive relief order from the relevant Canadian securities regulators in the event that an exemption from the prospectus and registration requirements of applicable Canadian securities laws is not available at the time of the delivery of common shares. In addition, any issuance of common shares to satisfy the Company's obligations under the Debentures will be subject to the approval of the TSX and the NYSE (and any other exchange on which the common shares are listed at the relevant time).

The number of additional common shares per \$1,000 principal amount of Debentures constituting the make whole premium will be determined by reference to the table below and is based on the date on which the change of control becomes effective (the "Effective Date") and the price (the "Stock Price") paid per common share in the transaction constituting the change of control. If holders of common shares receive only cash in the transaction, the Stock Price shall be the cash amount paid per common share. Otherwise, the Stock Price shall be equal to the current market price of the common shares immediately preceding the Effective Date of such transaction.

The following table shows what the make whole premium would be for each hypothetical Stock Price and Effective Date set forth below, expressed as additional common shares per \$1,000 principal amount of Debentures. For the avoidance of doubt, the Company shall not be obliged to pay the make whole premium otherwise than by issuance of common shares upon conversion, subject to the provisions relating to adjustment of the conversion price in certain circumstances and following the completion of certain types of transactions described under "Description of Debentures Conversion privilege" above.

Make Whole Premium Upon a Change of Control (Number of Additional Common Shares per \$1,000 Debenture)

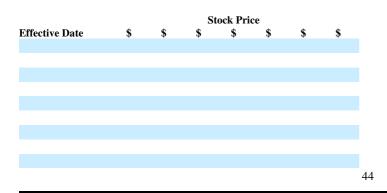


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The actual Stock Price and Effective Date may not be set forth on the table, in which case:

make whole premium will be zero.

if the actual Stock Price on the Effective Date is between two Stock Prices on the table or the actual Effective Date is between two Effective Dates on the table, the make whole premium will be determined by a straight-line interpolation between the make whole premiums set forth for the two Stock Prices and the two Effective Dates on the table based on a 365-day year, as applicable;

if the Stock Price on the Effective Date exceeds \$ per common share, subject to adjustment as described below, the if the Stock Price on the Effective Date is less than \$ per common share, subject to adjustment as described below, the

The Stock Prices set forth in the first row of the table above will be adjusted as of any date on which the conversion rate of the Debentures is adjusted. The adjusted Stock Prices will equal the Stock Prices applicable immediately prior to such adjustment multiplied by a fraction, the numerator of which is the conversion rate immediately prior to the adjustment giving rise to the Stock Price adjustment and the denominator of which is the conversion rate as so adjusted. The number of additional common shares set forth in the table above will be adjusted in the same manner as the conversion rate as set forth above under "Description of Debentures Conversion privilege," other than by operation of an adjustment to the conversion rate by adding the make whole premium as described above.

Modification

The rights of the Debenture holders as well as any other series of debentures that have been or may be issued under the Indenture or indentures supplemental to the Indenture may be modified in accordance with the terms of the Indenture. For that purpose, among others, the Indenture contains certain provisions which make binding on all Debenture holders resolutions passed at meetings of the Debenture holders by votes cast thereat by holders of not less than $66^2/3\%$ of the principal amount of the then outstanding Debentures present at the meeting or represented by proxy, or rendered by instruments in writing signed by the holders of not less than $66^2/3\%$ of the principal amount of the then outstanding Debentures. In certain cases, the modification will, instead or in addition, require assent by the holders of the required percentage of each particularly affected series of debentures, as the case may be. Under the Indenture, certain amendments may be made to the Indenture without the consent of the Debenture holders.

Events of Default

The Indenture provides that an event of default ("Event of Default") in respect of the Debentures will occur if certain events described in the Indenture occur, including if any one or more of the following described events has occurred and is continuing with respect to the Debentures: (i) failure for 15 days to pay interest on the Debentures when due; (ii) failure to pay principal or premium, if any, on the Debentures, whether at maturity, upon redemption, by declaration or otherwise; or (iii) certain events of bankruptcy, insolvency or reorganization of the Company under bankruptcy or insolvency laws. If an Event of Default has occurred and is continuing, the Debenture Trustee may, in its discretion, and shall, upon the request of holders of not less than 25% in principal amount of the then outstanding Debentures, declare the principal of (and premium, if any) and interest on all outstanding Debentures to be immediately due and payable.

Offers for Debentures

The Indenture contains provisions to the effect that if an offer is made for the Debentures which is a take-over bid for Debentures within the meaning of the Securities Act (Ontario) and not less than 90% of the Debentures (other than Debentures held at the date of the take-over bid by or on behalf of

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the offeror or associates or affiliates of the offeror) are taken up and paid for by the offeror, the offeror will be entitled to acquire the Debentures held by Debenture holders who did not accept the offer on the terms offered by the offeror.

Book entry, delivery and form

Debentures will be issued in the form of fully registered global Debentures (the "Global Debentures") held by, or on behalf of, CDS or its successor (the "Depository"), as custodian for its participants.

All Debentures will be represented in the form of Global Debentures registered in the name of the Depository or its nominee. Purchasers of Debentures represented by Global Debentures will not receive Debentures in definitive form. Rather, the Debentures will be represented only in "book-entry only" form (unless the Company, in its sole discretion, elects to prepare and deliver definitive Debentures in fully registered form). Beneficial interests in the Global Debentures, constituting ownership of the Debentures, will be represented through book-entry accounts of institutions (including the underwriters) acting on behalf of beneficial owners, as direct and indirect participants of the Depository (the "participants"). Each purchaser of a Debenture represented by a Global Debenture will receive a customer confirmation of purchase from the underwriters or registered dealer from whom the Debenture is purchased in accordance with the practices and procedures of the selling underwriters or registered dealer. The practices of registered dealers may vary, but generally customer confirmations are issued promptly after execution of a customer order. The Depository will be responsible for establishing and maintaining book-entry accounts for its participants having interests in Global Debentures.

If the Depository notifies the Company that it is unwilling or unable to continue as depository in connection with the Global Debentures, or if at any time the Depository ceases to be a clearing agency or otherwise ceases to be eligible to be a depository and the Company and the Debenture Trustee are unable to locate a qualified successor, or if the Company elects, in its sole discretion, to terminate the book-entry system, with the consent of the Debenture Trustee, or if under certain circumstances described in the Indenture, an Event of Default has occurred, beneficial owners of Debentures represented by Global Debentures at such time will receive Debentures in registered and definitive form (the "Definitive Debentures").

Transfer and exchange of Debentures

Transfers of beneficial ownership in Debentures represented by Global Debentures will be effected through records maintained by the Depository for such Global Debentures or its nominees (with respect to interests of participants) and on the records of participants (with respect to interests of persons other than participants). Unless the Company elects, in its sole discretion, to prepare and deliver Definitive Debentures, beneficial owners who are not participants in the Depository's book-entry system, but who desire to purchase, sell or otherwise transfer ownership of or other interests in Global Debentures, may do so only through participants in the Depository's book-entry system.

The ability of a beneficial owner of an interest in a Debenture represented by a Global Debenture to pledge the Debenture or otherwise take action with respect to such owner's interest in a Debenture represented by a Global Debenture (other than through a participant) may be limited due to the lack of a physical certificate.

Registered holders of Definitive Debentures may transfer such Debentures upon payment of taxes or other charges incidental thereto, if any, by executing and delivering a form of transfer together with the Debentures to the registrar for the Debentures at its principal offices in Toronto, Ontario or such other city or cities as may from time to time be designated by the Company, whereupon new Debentures will be issued in authorized denominations in the same aggregate principal amount as the

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Debentures so transferred, registered in the names of the transferees. No transfer of a Debenture will be registered on any interest payment date or during the five business days preceding an interest payment date on the Debentures or on any Redemption Date or during the five business days preceding the Redemption Date.

Payments

Payments of interest and principal on each Global Debenture will be made to the Depository or its nominee, as the case may be, as the registered holder of the Global Debenture. As long as the Depository or its nominee is the registered owner of a Global Debenture, such Depository or its nominee, as the case may be, will be considered the sole legal owner of the Global Debenture for the purposes of receiving payments of interest and principal on the Debentures and for all other purposes under the Indenture and the Debentures. The record date for the payment of interest will be the fifth business day prior to the applicable interest payment date. Interest payments on Global Debentures will be made by electronic funds transfer or by cheque on the day interest is payable and delivered to the Depository or its nominee, as the case may be.

The Company understands that the Depository or its nominee, upon receipt of any payment of interest or principal in respect of a Global Debenture, will credit participants' accounts, on the date interest or principal is payable, with payments in amounts proport