

ENVIRONMENTAL POWER CORP

Form S-3/A

September 10, 2008

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As filed with the Securities and Exchange Commission on September 10, 2008

Registration No. 333-152807

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Amendment No. 1

to

FORM S-3

REGISTRATION STATEMENT

UNDER

THE SECURITIES ACT OF 1933

ENVIRONMENTAL POWER CORPORATION

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

75-3117389
(I.R.S. Employer
Identification No.)

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120 White Plains Road, 6th Floor

Tarrytown, New York 10591

(914) 631-1435

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Richard E. Kessel

President and Chief Executive Officer

Environmental Power Corporation

120 White Plains Road, 6th Floor

Tarrytown, New York 10591

(914) 631-1435

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies to:

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Vice President and General Counsel

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Approximate date of commencement of proposed sale to the public: As soon as practicable following the date on which the Registration Statement becomes effective.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box: "

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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, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box:

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

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. "

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box. "

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box. "

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 definition of "large accelerated filer", "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

- | | |
|--|---|
| <input type="checkbox"/> Large accelerated filer | <input checked="" type="checkbox"/> Accelerated filer |
| <input type="checkbox"/> Non-accelerated filer (do not check if a smaller reporting company) | <input type="checkbox"/> Smaller reporting company |

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 or until the registration statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

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The information in this prospectus is not complete and may be changed. A registration statement relating to these securities has been filed with the Securities and Exchange Commission. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED SEPTEMBER 10, 2008.

PROSPECTUS

Energy that is Beyond Renewable

\$50,000,000

Debt Securities

Environmental Power Corporation may issue debt securities under this prospectus. At the time of each offering, we will provide you with more specific terms of these debt securities in supplements to this prospectus. You should read this prospectus and the applicable prospectus supplement carefully before you invest. This prospectus may not be used to consummate sales of these debt securities unless accompanied by a prospectus supplement.

We may offer these debt securities from time to time in amounts, at prices and on other terms to be determined at the time of the offering. The total offering price of the debt securities offered to the public will be limited to \$50,000,000. We may sell these securities to or through one or more underwriters, dealers and agents, or directly to purchasers, on a continuous or delayed basis.

None of the debt securities which may be offered are currently publicly traded. If we decide to seek the listing of any such debt securities upon issuance, the prospectus supplement relating to those debt securities will disclose the exchange, quotation system or market on which the securities will be listed, if any.

Investing in our securities involves a high degree of risk. See Risk Factors on page 4 of this prospectus.

Neither the Securities and Exchange Commission 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.

, 2008.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the United States Securities and Exchange Commission, referred to as the SEC, utilizing a shelf registration or continuous offering process. Under this shelf registration or continuous offering process, we may sell any debt securities described in this prospectus in one or more offerings up to a total amount of \$50,000,000.

This prospectus provides a general description of the securities that we may offer. Each time we sell securities, we will provide you with a prospectus supplement containing specific information about the terms of the securities being offered. A prospectus supplement may include a discussion of any risk factors in addition to those included in this prospectus under the heading "Risk Factors" or other special considerations applicable to those securities or to us. A prospectus supplement may also add, update or change information in this prospectus. If there is any inconsistency between the information in this prospectus and the applicable prospectus supplement, you must rely on the information in the prospectus supplement. You should read both this prospectus and any prospectus supplement together with the additional information described elsewhere in this prospectus under the headings "Where You Can Find More Information" and "Information Incorporated by Reference".

The registration statement containing this prospectus, including exhibits to the registration statement, provides additional information about us and the securities offered under this prospectus. The registration statement can be read at the SEC's website or at the SEC's public reference room referred to under the heading "Where You Can Find More Information".

All references in this prospectus to "Environmental Power", "the Company", "we", "us", "our company", or "our" refer to Environmental Power Corp and its consolidated subsidiaries, except where it is clear that such terms refer to Environmental Power Corporation only.

Unless otherwise stated, currency amounts in this prospectus and any prospectus supplement are stated in United States dollars.

When you acquire any securities discussed in this prospectus, you should rely only on the information provided in this prospectus and in the applicable prospectus supplement, including the information incorporated by reference. Reference to a prospectus supplement means the prospectus supplement describing the specific terms of the securities you purchase. The terms used in your prospectus supplement will have the meanings described in this prospectus, unless otherwise specified. No one is authorized to provide you with different information. We are not offering the securities in any jurisdiction where the offer is prohibited. You should not assume that the information in this prospectus, any prospectus supplement, or any document incorporated by reference, is truthful or complete at any date other than the date mentioned on the cover page of these documents.

Our website is located at www.environmentalpower.com. We have not incorporated by reference into this prospectus the information on our website and you should not consider it to be a part of this document. Our website address is included as an inactive textual reference only.

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ENVIRONMENTAL POWER CORPORATION

Overview

We are a developer, owner, and operator of renewable energy production facilities. Our goal is to produce Energy that is . . . Beyond Renewable[®], which we define as energy that not only uses waste materials instead of limited resources, but that also is clean, reliable, and cost-effective. We now operate solely in the segment of our wholly-owned subsidiary, Microgy, Inc., referred to, together with our other subsidiaries in this segment, as Microgy.

Microgy

Microgy is a developer of renewable energy facilities for the production and commercial application of methane-rich biogas produced from livestock and food industry wastes, as well as wastes from other organic sources. The biogas can be sold to an end user or used to produce pipeline-grade methane, which we refer to as renewable natural gas, or RNG[®], liquefied natural gas, or LNG, compressed natural gas, or CNG, renewable electrical energy or thermal energy as well as other useful by-products. Microgy's systems utilize a proven biogas production technology that we believe is superior to other such technologies.

Microgy intends to continue to focus on its strategy of developing large-scale, standardized facilities utilizing an ownership model, pursuant to which Microgy will construct, own and operate facilities and profit from the ongoing sale of biogas or RNG[®] produced by such facilities as well as sales of carbon sequestration credits or other marketable environmental benefits. This strategy encompasses the construction and operation of stand-alone merchant plants like the Huckabay Ridge facility in Stephenville, Texas, as well as facilities dedicated to the needs of a single customer at one or more customer locations, such as the facility developed by our subsidiary, Microgy Grand Island, LLC, located in Grand Island, Nebraska on the site of the JBS Swift & Company beef processing plant, which extracts combustible biogas from organic waste streams produced by Swift's beef processing operations. By pursuing this strategy, Microgy intends to accumulate gas production and carbon sequestration capacity over time. In addition, Microgy continues to standardize and streamline both its system design and its approach to the marketplace in order to allow for rapid and cost-effective scale-up of its business.

Having validated both the multi- and single-tank system in four currently operating installations, Microgy intends to own the digester systems it develops. Microgy's multi-digester facilities will primarily produce pipeline quality renewable natural gas, although Microgy will also consider opportunities to produce and sell RNG[®], electricity, CNG or LNG from its facilities. Microgy's development efforts are focused on applications of its technology that are resource efficient. Development of smaller scale facilities, like the Grand Island facility, as well as single-digester facilities, will be targeted toward customers that have multiple sites and opportunities that have shorter development cycles. Microgy's goal with all projects is to maximize the profitability of every project by implementing the right technology and most profitable off-take arrangements.

In addition, Microgy is operating three single digester facilities in Wisconsin. Microgy sold these projects to the farms on which they are located, and developed them in conjunction with Dairyland Power Cooperative, an electric cooperative utility. The biogas from these projects is used by Dairyland to generate electricity.

Environmental Power and Microgy pursue Microgy's business through several subsidiaries and special purpose entities. The principal such entity is Microgy Holdings, LLC, which was formed in 2006 as a subsidiary of Environmental Power Corporation in connection with the \$60 million

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tax-exempt bond financing we completed in November 2006 relating to the construction and operation of four RNG[®] facilities in Texas, and which is expected to be the vehicle for our proposed tax-exempt bond financing in California relating to our proposed California projects. The assets financed by the Texas tax-exempt bond financing are pledged as collateral to the Gulf Coast Industrial Development Authority of Texas, the lender. The debt of Microgy Holdings is non-recourse to Environmental Power, although Environmental Power is required to provide at least 20% of the construction costs of these facilities, as well as to cover any cost overruns in construction. Another such entity is Microgy Grand Island, LLC, which was formed to own and operate our Grand Island, Nebraska facility currently under construction, and which is the obligor under our tax-exempt bond financing for such facility described below.

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Discontinued Operations

In the past, we operated in two major segments: through Microgy, as described above, and through EPC Corporation and its subsidiary, Buzzard Power Corporation, as holder of a leasehold interest in a waste-coal fired generating facility in Pennsylvania known as the Scrubgrass facility. On February 29, 2008, we completed the disposition of the leasehold interest in the Scrubgrass facility. As a result, for financial reporting purposes, we are now consolidating all segments of continuing operations and reporting the results of Buzzard as discontinued operations. We now operate only in Microgy's segment.

Buzzard leased its generating facility from Scrubgrass Generating Company, L.P. The Scrubgrass plant, located on a 600-acre site in Venango County, Pennsylvania, is an approximate 83 megawatt waste coal-fired electric generating station. We decided to seek the disposition of Buzzard's leasehold interest in the Scrubgrass facility to allow management to focus its attention and resources on the development and growth of Microgy.

The assets and liabilities of Buzzard have been accounted for as discontinued operations for sale for all periods presented in accordance with the criteria established in Statement of Financial Accounting Standard (SFAS) No. 144 *Accounting for Impairment or Disposal of Long-Lived Assets*. We no longer have a continuing involvement with the Buzzard business since we disposed of the leasehold interest in the Scrubgrass facility and do not continue to generate any revenue or cost-generating activities related to Buzzard. In accordance with SFAS No. 144, the consolidated balance sheets from and after June 30, 2007 included in or incorporated by reference in this prospectus report the assets and liabilities of Buzzard as discontinued operations and the consolidated statements of operations report the operations of Buzzard as discontinued operations during the period prior to disposition of the entity.

Corporate Information

We are a Delaware corporation, incorporated in May 2003, as the successor holding company to our subsidiary, EPC Corporation, which was originally incorporated in Delaware in 1982. EPC Corporation became a publicly traded company in 1986. Our common stock is currently listed on the NASDAQ Capital Market under the symbol EPG. Our principal executive offices are located at 120 White Plains Road, 6th floor, Tarrytown, New York 10591 and our telephone number is (914) 631-1435.

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RISK FACTORS

Investing in our securities involves risk. Please see the risk factors under the heading "Certain Factors That May Affect Future Results" in our most recent Annual Report on Form 10-K or Quarterly Report on Form 10-Q on file with the SEC, which are incorporated by reference in this prospectus. Before making an investment decision, you should carefully consider these risks as well as other risk factors and information we include or incorporate by reference in this prospectus and any prospectus supplement. Risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our business operations.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

The Private Securities Litigation Reform Act of 1995, referred to as the PSLRA, provides a "safe harbor" for forward-looking statements. Certain statements contained or incorporated by reference in this prospectus, such as statements concerning planned manure-to-energy systems, our sales pipeline, our backlog, our projected sales and financial performance, statements containing the words "may," "assumes," "forecasts," "positions," "predicts," "strategy," "will," "expects," "estimates," "anticipates," "believes," "projects," "intends," "plans," "budgets," "potential," "continue," "thereof," and other statements contained in this prospectus regarding matters that are not historical facts are forward-looking statements as such term is defined in the PSLRA. Because such statements involve risks and uncertainties, actual results may differ materially from those expressed or implied by such forward-looking statements. Factors that could cause actual results to differ materially include, but are not limited to:

uncertainties involving early-stage companies,

uncertainties regarding financing,

the lack of binding commitments and the need to negotiate and execute definitive agreements for the construction and financing of facilities,

the lack of binding commitments for the purchase of gas produced by certain facilities,

the lack of binding commitments for, and other uncertainties with respect to, supplies of substrate,

uncertainties regarding the costs associated with substrate and other project inputs,

risks and uncertainties relating to the development of markets for carbon sequestration credits and other marketable renewable attributes, and the level of revenues we may achieve from such sources,

uncertainties regarding the amount and rate of growth in operating expenses,

unpredictable developments, including plant outages and repair requirements as well as risks related to weather and the unpredictability of extreme weather events,

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risks related to performance on the part of suppliers of components, goods and services to our facilities,

financing and cash flow requirements and uncertainties,

inexperience with the design, construction, startup and operation of multi-digester facilities,

difficulties involved in developing and executing a business plan,

technological uncertainties, including those relating to competing products and technologies,

unpredictable developments, including plant outages and repair requirements,

commodity price volatility, particularly with respect to the price of natural gas,

the difficulty of estimating construction, development, repair, maintenance and operating costs and timeframes,

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the uncertainties involved in estimating insurance and warranty recoveries, if any,

the inability to predict the course or outcome of any negotiations with parties involved with our projects,

uncertainties relating to general economic and industry conditions,

uncertainties relating to government and regulatory policies, the legal environment, intellectual property issues and the competitive environment in which Environmental Power Corporation and its subsidiaries operate,

and other factors, including those described in this prospectus under the heading Risk Factors, as well as factors set forth in other filings we make with the Securities and Exchange Commission. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date that they are made. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Table of Contents**USE OF PROCEEDS**

Unless otherwise indicated in an accompanying prospectus supplement, the net proceeds from the sale of the securities described in this prospectus will be added to our general funds, and will be used principally to support our required equity contributions and other obligations with respect to the development and construction of Microgy s projects in California, Texas and elsewhere, as well as for working capital and general corporate purposes.

From time to time, we may engage in additional public or private financings of a character and amount that we may deem appropriate.

RATIO OF EARNINGS (DEFICIT) TO FIXED CHARGES

The following table sets forth our consolidated ratios of earnings (deficits) to fixed charges and preferred dividends for the periods indicated:

	6 months ended June 30, 2008	Year Ended December 31,				
		2007	2006	2005	2004	2003
Ratio of earnings (deficit) to fixed charges	(3.7)	(3.0)	(19.2)	(39.3)	(60.2)	(22.6)

For purposes of this calculation, earnings or deficit refers to the sum of (1) pre-tax income from continuing operations and (2) fixed charges, less interest capitalized.

Fixed charges means the sum of (1) interest expensed and capitalized, (2) amortized premiums, discounts and capitalized expenses related to indebtedness and (3) an estimate of the interest within rental expense.

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DESCRIPTION OF DEBT SECURITIES

The following summarizes certain material provisions of our senior debt indenture and our subordinated debt indenture that would be important to holders of debt securities. While the terms we have summarized below will generally apply to any future debt securities we may offer under this prospectus, the following description is only a summary, may be supplemented in prospectus supplements, and is subject to, and qualified in its entirety by reference to, the terms and provisions of our senior debt indenture and our subordinated debt indenture which are exhibits to the registration statement which contains this prospectus. The terms of any debt securities we offer under a prospectus supplement may differ from the terms we describe below.

Overview

We may issue senior or subordinated debt securities. Unless otherwise stated in the applicable prospectus supplement, neither the senior debt securities nor the subordinated debt securities will be secured by any of our property or assets. Thus, by owning a debt security, you are one of our unsecured creditors.

The senior debt securities will constitute part of our senior debt, will be issued under a senior debt indenture described below and will rank equally with all of our other unsecured and unsubordinated obligations.

We will issue the senior notes under the senior indenture that we will enter into with the trustee named in the senior indenture. We will issue the subordinated notes under the subordinated indenture that we will enter into with the trustee named in the subordinated indenture. We have filed forms of these documents as exhibits to the registration statement of which this prospectus is a part. We use the term `indentures` to refer to both the senior indenture and the subordinated indenture. The indentures may be modified by one or more supplemental indentures, which we will incorporate by reference as an exhibit to the registration statement of which this prospectus is a part.

The indentures will be qualified under the Trust Indenture Act of 1939. We use the term `trustee` to refer to either the trustee under the senior indenture or the trustee under the subordinated indenture, as applicable.

The following summaries of material provisions of the senior notes, the subordinated notes and the indentures are subject to, and qualified in their entirety by reference to, all the provisions of the indenture applicable to a particular series of debt securities. We urge you to read the applicable prospectus supplements related to the debt securities that we sell under this prospectus, as well as the complete indentures that contain the terms of the debt securities. Except as we may otherwise indicate, the terms of the senior indenture and the subordinated indenture are identical.

In this prospectus, `debt securities` refers to both the senior debt securities and the subordinated debt securities.

We currently have outstanding 281,241 shares of our series A 9% cumulative convertible preferred stock, referred to as the series A preferred stock. The terms of the series A preferred stock currently limit our ability to issue debt securities. We expect that any such issuance of debt

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securities would require the consent of the holders of the series A preferred stock. We intend to obtain any required consent prior to issuing any debt securities.

We Are a Holding Company

Because we are a holding company, our right to participate in any distribution of assets of any of our subsidiaries upon the subsidiary's liquidation or reorganization or otherwise, is subject to the prior claims of its creditors, except to the extent we may be recognized as a creditor of that subsidiary. Accordingly, our obligations under the debt securities will be effectively subordinated to all existing and future indebtedness and liabilities of our subsidiaries, and you, as holders of debt securities should look only to our assets for payment thereunder.

General

We will describe in the applicable prospectus supplement the following terms relating to a series of debt securities:

the title;

any limit on the amount that may be issued;

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whether or not we will issue the series of debt securities in global form, and, if so, who the depository will be;

the maturity date;

the annual interest rate, which may be fixed or variable, or the method for determining the rate and the date interest will begin to accrue, the interest payment dates and the regular record dates for interest payment dates or the method for determining such dates;

whether or not the debt securities will be senior or subordinated;

the terms of the subordination of any series of subordinated debt securities;

the place where payments will be payable;

our right, if any, to defer payment of interest and the maximum length of any such deferral period;

the date, if any, after which, and the price at which, we may, at our option, redeem the series of debt securities pursuant to any optional redemption provisions;

the date, if any, on which, and the price at which we are obligated, pursuant to any mandatory sinking fund provisions or otherwise, to redeem, or at the holder's option to purchase, the series of debt securities;

whether the indenture will restrict our ability to pay dividends, or will require us to maintain any asset ratios or reserves;

whether we will be restricted from incurring any additional indebtedness;

a discussion on any material or special United States federal income tax considerations applicable to the notes;

the denominations in which we will issue the series of debt securities, if other than denominations of \$1,000 and any integral multiple thereof; and

any other specific terms, preferences, rights or limitations of, or restrictions on, the debt securities.

Conversion or Exchange Rights

We will set forth in the applicable prospectus supplement the terms on which a series of debt securities may be convertible into or exchangeable for common stock or other securities of ours. We will include provisions as to whether conversion or exchange is mandatory, at the option of the holder or at our option. We may include provisions pursuant to which the number of shares of common stock or other securities of ours that the holders of the series of debt securities receive would be subject to adjustment.

Consolidation, Merger or Sale

The indentures do not contain any covenant that restricts our ability to merge or consolidate, or sell, convey, transfer or otherwise dispose of all or substantially all of our assets. However, any successor to or acquirer of such assets must assume all of our obligations under the indentures or the debt securities, as appropriate.

Events of Default Under the Indenture

The following are events of default under the indentures with respect to any series of debt securities that we may issue:

if we fail to pay interest when due and our failure continues for 30 days and the time for payment has not been extended or deferred;

if we fail to pay the principal, or premium, if any, when due and the time for payment has not been extended or delayed;

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if we fail to observe or perform any other covenant contained in the notes or the indentures, other than a covenant specifically relating to another series of notes, and our failure continues for 90 days after we receive notice from the trustee or holders of at least 25% in aggregate principal amount of the outstanding notes of the applicable series; and

if specified events of bankruptcy, insolvency or reorganization occur to us.

If an event of default with respect to the debt securities of any series occurs and is continuing, the trustee or the holders of at least 25% in aggregate principal amount of the outstanding the debt securities of that series, by notice to us in writing, and to the trustee if notice is given by such holders, may declare the unpaid principal of, premium, if any, on and accrued interest, if any, on the debt securities due and payable immediately.

The holders of a majority in principal amount of the outstanding debt securities of an affected series may waive any default or event of default with respect to the series and its consequences, except defaults or events of default regarding payment of principal, premium, if any, or interest, unless we have cured the default or event of default in accordance with the indenture. Any waiver shall cure the default or event of default.

Subject to the terms of the indentures, if an event of default under an indenture shall occur and be continuing, the trustee will be under no obligation to exercise any of its rights or powers under such indenture at the request or direction of any of the holders of the applicable series of debt securities, unless such holders have offered the trustee reasonable indemnity. The holders of a majority in principal amount of the outstanding debt securities of any series will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the trustee, or exercising any trust or power conferred on the trustee, with respect to the debt securities of that series, provided that:

the direction so given by the holder is not in conflict with any law or the applicable indenture; and

subject to its duties under the Trust Indenture Act, the trustee need not take any action that might involve it in personal liability or might be unduly prejudicial to the holders not involved in the proceeding.

A holder of the debt securities of any series will only have the right to institute a proceeding under the indentures or to appoint a receiver or trustee, or to seek other remedies, if:

the holder has given written notice to the trustee of a continuing event of default with respect to that series;

the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series have made written request, and such holders have offered reasonable indemnity to the trustee to institute the proceeding as trustee; and

the trustee does not institute the proceeding, and does not receive from the holders of a majority in aggregate principal amount of the outstanding debt securities of that series other conflicting directions within 60 days after the notice, request and offer.

These limitations do not apply to a suit instituted by a holder of debt securities if we default in the payment of the principal of, premium, if any, or interest on, the notes.

We will periodically file statements with the trustee regarding our compliance with specified covenants in the indentures.

Modification of Indenture; Waiver

We and the trustee may change an indenture without the consent of any holders with respect to specific matters, including:

to fix any ambiguity, defect or inconsistency in the indenture; and

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to change anything that does not materially adversely affect the interests of any holder of debt securities of any series.

In addition, under the indentures, the rights of holders of a series of debt securities may be changed by us and the trustee with the written consent of the holders of at least a majority in aggregate principal amount of the outstanding debt securities of each series that is affected. However, we and the trustee may make the following changes only with the consent of each holder of any outstanding debt securities affected:

extending the fixed maturity of the series of debt securities;

reducing the principal amount, reducing the rate of interest, or any premium payable upon the redemption of any debt securities; or

reducing the minimum percentage of debt securities, the holders of which are required to consent to any amendment.

Discharge

Each indenture provides that we can elect, under certain circumstances, to be discharged from our obligations with respect to one or more series of debt securities, except for obligations to:

register the transfer or exchange of debt securities of the series;

replace stolen, lost or mutilated debt securities of the series;

maintain paying agencies;

hold monies for payment in trust;

compensate and indemnify the trustee; and

appoint any successor trustee.

In order to exercise our rights to be discharged, we must deposit with the trustee money or government obligations sufficient to pay all the principal of, any premium, if any, and interest on, the debt securities of the series on the dates payments are due.

Form, Exchange and Transfer

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We will issue the debt securities of each series only in fully registered form without coupons and, unless we otherwise specify in the applicable prospectus supplement, in denominations of \$1,000 and any integral multiple thereof. The indentures provide that we may issue debt securities of a series in temporary or permanent global form and as book-entry securities that will be deposited with, or on behalf of, The Depository Trust Company, New York, New York, known as DTC, or another depository named by us and identified in a prospectus supplement with respect to that series. See Legal Ownership of Securities for a further description of the terms relating to any book-entry securities.

At the option of the holder, subject to the terms of the indentures and the limitations applicable to global securities described in the applicable prospectus supplement, the holder of the debt securities of any series can exchange the debt securities for other debt securities of the same series, in any authorized denomination and of like tenor and aggregate principal amount.

Subject to the terms of the indentures and the limitations applicable to global securities set forth in the applicable prospectus supplement, holders of the debt securities may present the debt securities for exchange or for registration of transfer, duly endorsed or with the form of transfer endorsed thereon duly executed if so required by us or the security registrar, at the office of the security registrar or at the office of any transfer agent designated by us for this purpose. Unless otherwise provided in the debt securities that the holder presents for transfer or exchange, we will not require any payment for any registration of transfer or exchange, but we may require payment of any taxes or other governmental charges.

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We will name in the applicable prospectus supplement the security registrar, and any transfer agent in addition to the security registrar, that we initially designate for any debt securities. We may at any time designate additional transfer agents or rescind the designation of any transfer agent or approve a change in the office through which any transfer agent acts, except that we will be required to maintain a transfer agent in each place of payment for the debt securities of each series.

If we elect to redeem the debt securities of any series, we will not be required to:

issue, register the transfer of, or exchange any debt securities of that series during a period beginning at the opening of business 15 days before the day of mailing of a notice of redemption of any debt securities that may be selected for redemption and ending at the close of business on the day of the mailing; or

register the transfer of or exchange any debt securities so selected for redemption, in whole or in part, except the unredeemed portion of any debt securities we are redeeming in part.

Information Concerning the Trustee

The trustee, other than during the occurrence and continuance of an event of default under an indenture, undertakes to perform only those duties as are specifically set forth in the applicable indenture. Upon an event of default under an indenture, the trustee must use the same degree of care as a prudent person would exercise or use in the conduct of his or her own affairs. Subject to this provision, the trustee is under no obligation to exercise any of the powers given to it by the indentures at the request of any holder of debt securities unless it is offered reasonable security and indemnity against the costs, expenses and liabilities that it might incur.

Payment and Paying Agents

Unless we otherwise indicate in the applicable prospectus supplement, we will make payment of the interest on any debt securities on any interest payment date to the person in whose name the debt securities, or one or more predecessor securities, are registered at the close of business on the regular record date for the interest payment.

We will pay principal of and any premium and interest on the debt securities of a particular series at the office of the paying agents designated by us, except that unless we otherwise indicate in the applicable prospectus supplement, we will make interest payments by check which we will mail to the holder. Unless we otherwise indicate in a prospectus supplement, we will designate the corporate trust office of the trustee in the city of New York as our sole paying agent for payments with respect to the debt securities of each series. We will name in the applicable prospectus supplement any other paying agents that we initially designate for the debt securities of a particular series. We will maintain a paying agent in each place of payment for the debt securities of a particular series.

All money we pay to a paying agent or the trustee for the payment of the principal of or any premium or interest on any debt securities which remains unclaimed at the end of two years after such principal, premium or interest has become due and payable will be repaid to us, and the holder of the security thereafter may look only to us for payment thereof.

Governing Law

The indentures and the debt securities will be governed by and construed in accordance with the laws of the State of New York, except to the extent that the Trust Indenture Act is applicable.

Subordination of Subordinated Debt Securities

The subordinated debt securities will be unsecured and will be subordinate and junior in priority of payment to certain of our other indebtedness to the extent described in a prospectus supplement. The subordinated indenture does not limit the amount of subordinated debt securities that we may issue. It also does not limit us from issuing any other secured or unsecured debt.

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LEGAL OWNERSHIP OF SECURITIES

We can issue securities in registered form or in the form of one or more global securities. We describe global securities in greater detail below. We refer to those persons who have securities registered in their own names on the books that we or any applicable trustee maintain for this purpose as the holders of those securities. These persons are the legal holders of the securities. We refer to those persons who, indirectly through others, own beneficial interests in securities that are not registered in their own names as indirect holders of those securities. As we discuss below, indirect holders are not legal holders, and investors in securities issued in book-entry form or in street name will be indirect holders.

Book-Entry Holders

We may issue securities in book-entry form only, as we will specify in the applicable prospectus supplement. This means securities may be represented by one or more global securities registered in the name of a financial institution that holds them as depositary on behalf of other financial institutions that participate in the depositary's book-entry system. These participating institutions, which are referred to as participants, in turn, hold beneficial interests in the securities on behalf of themselves or their customers.

Only the person in whose name a security is registered is recognized as the holder of that security. Securities issued in global form will be registered in the name of the depositary or its nominee. Consequently, for securities issued in global form, we will recognize only the depositary as the holder of the securities, and we will make all payments on the securities to the depositary. The depositary passes along the payments it receives to its participants, which will in turn pass the payments along to their customers who are the beneficial owners. The depositary and its participants do so under agreements they have made with one another or with their customers; they are not obligated to do so under the terms of the securities.

As a result, investors in a book-entry security will not own securities directly. Instead, they will own beneficial interests in a global security, through a bank, broker or other financial institution that participates in the depositary's book-entry system or holds an interest through a participant. As long as the securities are issued in global form, investors will be indirect holders, and not holders, of the securities.

Street Name Holders

We may terminate a global security or issue securities in non-global form. In these cases, investors may choose to hold their securities in their own names or in street name. Securities held by an investor in street name would be registered in the name of a bank, broker or other financial institution that the investor chooses, and the investor would hold only a beneficial interest in those securities through an account he or she maintains at that institution.

For securities held in street name, we will recognize only the intermediary banks, brokers and other financial institutions in whose names the securities are registered as the holders of those securities, and we will make all payments on those securities to them. These institutions pass along the payments they receive to their customers who are the beneficial owners, but only because they agree to do so in their customer agreements or because they are legally required to do so. Investors who hold securities in street name will be indirect holders, not holders, of those securities.

Legal Holders

Our obligations, as well as the obligations of any applicable trustee and of any third parties employed by us or a trustee, run only to the legal holders of the securities. We do not have obligations to investors who hold beneficial interests in global securities, in street name or by any other indirect means. This will be the case whether an investor chooses to be an indirect holder of a security or has no choice because we are issuing the securities only in global form.

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For example, once we make a payment or give a notice to the holder, we have no further responsibility for the payment or notice even if that holder is required, under agreements with depository participants or customers or by law, to pass it along to the indirect holders but does not do so. Similarly, we may want to obtain the approval of the holders to amend an indenture, to relieve us of the consequences of a default or of our obligation to comply with a particular provision of the indenture or for other purposes. In such an event, we would seek approval only from the holders, and not the indirect holders, of the securities. Whether and how the holders contact the indirect holders is up to the holders.

Special Considerations for Indirect Holders

If you hold securities through a bank, broker or other financial institution, either in book-entry form or in street name, you should check with your own institution to find out:

how it handles securities payments and notices;

whether it imposes fees or charges;

how it would handle a request for the holders' consent, if ever required;

whether and how you can instruct it to send you securities registered in your own name so you can be a holder, if that is permitted in the future;

how it would exercise rights under the securities if there were a default or other event triggering the need for holders to act to protect their interests; and

if the securities are in book-entry form, how the depository's rules and procedures will affect these matters.

Global Securities

A global security is a security held by a depository which represents one or any other number of individual securities. Generally, all securities represented by the same global securities will have the same terms.

Each security issued in book-entry form will be represented by a global security that we deposit with and register in the name of a financial institution or its nominee that we select. The financial institution that we select for this purpose is called the depository. Unless we specify otherwise in the applicable prospectus supplement, The Depository Trust Company, New York, New York, known as DTC, will be the depository for all securities issued in book-entry form.

A global security may not be transferred to or registered in the name of anyone other than the depository, its nominee or a successor depository, unless special termination situations arise. We describe those situations below under [Special Situations When a Global Security Will Be](#)

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Terminated. As a result of these arrangements, the depositary, or its nominee, will be the sole registered owner and holder of all securities represented by a global security, and investors will be permitted to own only beneficial interests in a global security. Beneficial interests must be held by means of an account with a broker, bank or other financial institution that in turn has an account with the depositary or with another institution that does. Thus, an investor whose security is represented by a global security will not be a holder of the security, but only an indirect holder of a beneficial interest in the global security.

If the prospectus supplement for a particular security indicates that the security will be issued in global form only, then the security will be represented by a global security at all times unless and until the global security is terminated. If termination occurs, we may issue the securities through another book-entry clearing system or decide that the securities may no longer be held through any book-entry clearing system.

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Special Considerations for Global Securities

As an indirect holder, an investor's rights relating to a global security will be governed by the account rules of the investor's financial institution and of the depository, as well as general laws relating to securities transfers. We do not recognize an indirect holder as a holder of securities and instead deal only with the depository that holds the global security.

If securities are issued only in the form of a global security, an investor should be aware of the following:

an investor cannot cause the securities to be registered in his or her name and cannot obtain non-global certificates for his or her interest in the securities, except in the special situations we describe below;

an investor will be an indirect holder and must look to his or her own bank or broker for payments on the securities and protection of his or her legal rights relating to the securities, as we describe above under **Legal Holders** ;

an investor may not be able to sell interests in the securities to some insurance companies and to other institutions that are required by law to own their securities in non-book-entry form;

an investor may not be able to pledge his or her interest in a global security in circumstances where certificates representing the securities must be delivered to the lender or other beneficiary of the pledge in order for the pledge to be effective;

the depository's policies, which may change from time to time, will govern payments, transfers, exchanges and other matters relating to an investor's interest in a global security. We and any applicable trustee have no responsibility for any aspect of the depository's actions or for its records of ownership interests in a global security. We and the trustee also do not supervise the depository in any way;

the depository may, and we understand that DTC will, require that those who purchase and sell interests in a global security within its book-entry system use immediately available funds, and your broker or bank may require you to do so as well; and

financial institutions that participate in the depository's book-entry system, and through which an investor holds its interest in a global security, may also have their own policies affecting payments, notices and other matters relating to the securities. There may be more than one financial intermediary in the chain of ownership for an investor. We do not monitor and are not responsible for the actions of any of those intermediaries.

Special Situations When A Global Security Will Be Terminated

In a few special situations described below, the global security will terminate and interests in it will be exchanged for physical certificates representing those interests. After that exchange, the choice of whether to hold securities directly or in street name will be up to the investor. Investors must consult their own banks or brokers to find out how to have their interests in securities transferred to their own name, so that they will be direct holders. We have described the rights of holders and street name investors above.

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The global security will terminate when the following special situations occur:

if the depositary notifies us that it is unwilling, unable or no longer qualified to continue as depositary for that global security and we do not appoint another institution to act as depositary within 90 days;

if we notify any applicable trustee that we wish to terminate that global security; or

if an event of default has occurred with regard to securities represented by that global security and has not been cured or waived.

The prospectus supplement may also list additional situations for terminating a global security that would apply only to the particular series of securities covered by the prospectus supplement. When a global security terminates, the depositary, and not we or any applicable trustee, is responsible for deciding the names of the institutions that will be the initial direct holders.

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PLAN OF DISTRIBUTION

We may sell the securities being offered hereby in one or more of the following ways from time to time:

through agents to the public or to investors;

to one or more underwriters for resale to the public or to investors;

directly to investors in privately negotiated transactions; or

through a combination of these methods of sale.

The securities that we distribute by any of these methods may be sold to the public, in one or more transactions, at:

a fixed price or prices, which may be changed; or

negotiated prices.

We will set forth in a prospectus supplement the terms of the offering of securities, including:

the name or names of any agents or underwriters;

the purchase price of the securities being offered and the proceeds we will receive from the sale;

any over-allotment options under which underwriters may purchase additional securities from us;

any agency fees or underwriting discounts and other items constituting agents or underwriters compensation;

the public offering price;

any discounts or concessions allowed or reallocated or paid to dealers; and

any securities exchanges on which such securities may be listed.

If we use underwriters for a sale of securities, the underwriters will acquire the securities for their own account. The underwriters may resell the securities in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of sale. The obligations of the underwriters to purchase the securities will be subject to the conditions set forth in the applicable underwriting agreement. The underwriters will be obligated to purchase all the securities of the series offered if they purchase any of the securities of that series. We may change from time to time any initial public offering price and any discounts or concessions the underwriters allow or realow or pay to dealers. We may use underwriters with whom we have a material relationship. We will describe in the prospectus supplement naming the underwriter the nature of any such relationship.

We may designate agents who agree to use their reasonable efforts to solicit purchases for the period of their appointment or to sell securities on a continuing basis. We may also sell securities directly to one or more purchasers without using underwriters or agents.

We may enter into agreements with underwriters, dealers and agents who participate in the distribution of the securities which may entitle these persons to indemnification by us against certain liabilities, including liabilities under the Securities Act, or to contribution with respect to payments which such underwriters, dealers or agents may be required to make. Any agreement in which we agree to indemnify underwriters, dealers and agents against civil liabilities will be described in the applicable prospectus supplement.

We have not authorized any dealer, salesperson or other person to give any information or represent anything not contained in this prospectus. You must not rely on any unauthorized information. This prospectus does not constitute an offer to sell or solicit an offer to buy any securities in any jurisdiction where the offer or sale is not permitted.

We will bear all costs, expenses and fees in connection with the registration of the securities as well as the expenses of all commissions and discounts, if any, attributable to the sales of securities by us.

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INDEMNIFICATION

Section 102 of the Delaware General Corporation Law allows a corporation to eliminate the personal liability of directors of a corporation to the corporation or its stockholders for monetary damages for a breach of fiduciary duty as a director, except where the director breached his duty of loyalty, failed to act in good faith, engaged in intentional misconduct or knowingly violated a law, authorized the payment of a dividend or approved a stock repurchase in violation of Delaware corporate law or obtained an improper personal benefit. Environmental Power Corporation has included such a provision in its certificate of incorporation.

Section 145 of the General Corporation Law of Delaware provides that a corporation has the power to indemnify a director, officer, employee or agent of the corporation and certain other persons serving at the request of the corporation in related capacities against amounts paid and expenses incurred in connection with an action or proceeding to which he is or is threatened to be made a party by reason of such position, if such person shall have acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation, and, in any criminal proceeding, if such person had no reasonable cause to believe his conduct was unlawful; provided that, in the case of actions brought by or in the right of the corporation, no indemnification shall be made with respect to any matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the adjudicating court determines that such indemnification is proper under the circumstances.

Section 145 of the Delaware General Corporation Law permits us to indemnify, under certain circumstances, any person acting on our behalf who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative for expenses related to such proceeding if the person acted in good faith and in a manner the person reasonable believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe that the person's conduct was unlawful. Our bylaws substantively provide that we will indemnify such persons to the fullest extent allowed by the Delaware General Corporation Law.

In addition, our certificate of incorporation limits the liability our of directors for monetary damages for breach of their fiduciary duty as a director other than for intentional misconduct, fraud or a knowing payment of a dividend in violation of Delaware law. Such provision limits recourse for money damages that might otherwise be available to us or our stockholders for negligence by directors acting on our behalf. Although these provisions would not prohibit injunctive or similar actions against these individuals, the practical effect of such relief would be limited. This limitation of liability under state law does not apply to any liabilities that may exist under federal securities laws. We have also purchased directors' and officers' liability insurance which would indemnify our directors and officers against damages arising out of certain kinds of claims which might be made against them based on their negligent acts or omissions while acting in their capacity as such.

We have entered into an indemnification agreement with Joseph E. Cresci, one of our directors, whereby we agree to indemnify him against any loss, liability, cost or other expense that he incurs in relation to certain of his activities related to his acting as either fiduciary or agent of all of our employee welfare benefit plans, employee pension benefit plans and benefit plans.

We have also entered into an indemnification agreement with Richard E. Kessel, our president and chief executive officer. This indemnification agreement provides for the indemnification of Mr. Kessel in his capacity as an officer and/or director of Environmental Power to the fullest extent allowed under our bylaws and Delaware law, and also provides for further indemnification in connection with any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative, to which Mr. Kessel is a party or a witness, by reason of the fact he is or was an officer or director of Environmental Power, in each case to the extent that Mr. Kessel has satisfied applicable standards of conduct. The indemnification agreement further provides for customary procedures regarding defense of claims, advancement of

expenses and enforcement.

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Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to our directors, officers and controlling persons, or otherwise, we have been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable.

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LEGAL MATTERS

Unless otherwise indicated in the applicable prospectus supplement, the validity of the securities offered hereby will be passed upon for us by Pierce Atwood LLP, Portsmouth, New Hampshire.

EXPERTS

The financial statements as of December 31, 2007 and 2006 for the three years in the period ended December 31, 2007 and the related financial statement schedule incorporated by reference herein from our Annual Report have been audited by Vitale, Caturano & Company, Ltd., an independent registered public accounting firm, as stated in their report, which is incorporated by reference herein, and has been incorporated in reliance upon the report of such firm given on their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We are subject to the informational requirements of the Securities Exchange Act of 1934, as amended, and we file reports, proxy statements and other information with the SEC. You may read and copy any document we file at the SEC's public reference room at 100 F Street, N.E., Room 1580, Washington, D.C. 20549. You should call 1-800-SEC-0330 for more information on the public reference room. Our filings with the SEC are available to the public from the SEC's website at <http://www.sec.gov>.

We have filed with the SEC a registration statement on Form S-3 of which this prospectus is a part, under the Securities Act of 1933, as amended, for the securities offered in this prospectus. This prospectus does not contain all of the information set forth in the registration statement. Certain documents filed by us with the SEC have been incorporated into this prospectus by reference; please see the section below entitled "Information Incorporated by Reference" for more information. For further information about us and the securities being offered by this prospectus, please review the registration statement, including the exhibits and the documents incorporated by reference. The registration statement may be inspected for free at the principal office of the SEC in Washington, D.C., and copies of all or part of it, including exhibits, may be obtained from the SEC by paying the prescribed fees.

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INFORMATION INCORPORATED BY REFERENCE

We are incorporating by reference certain documents that we file with the SEC, which means that such documents are considered part of this prospectus and that we can disclose important information to you by referring to those documents. Information that we file in the future with the SEC will automatically update and supersede earlier information in or incorporated by reference in this prospectus. Any statement in a document incorporated by reference into this prospectus will be deemed to be modified or superseded to the extent a statement contained in this prospectus or any subsequently filed document that is incorporated by reference into this prospectus modifies or supersedes such statement. Any statement that is modified or superseded shall not, except as so modified or superseded, constitute part of this prospectus.

We incorporate by reference the documents listed below and any future filings we may make with the SEC under Section 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934 after the date of the initial registration statement to which this prospectus relates and prior to effectiveness of such registration statement and after the date of this prospectus and prior to the termination of the offering of the securities covered hereby:

Our Annual Report on Form 10-K for the fiscal year ended December 31, 2007, as filed with the SEC on March 17, 2008 (SEC File No. 001-32393);

Our Current Report on Form 8-K dated February 29, 2008, as filed with the SEC on March 6, 2008 (SEC File No. 001-32393);

Our Current Report on Form 8-K dated March 21, 2008, as filed with the SEC on March 27, 2008 (SEC File No. 001-32393);

Our Quarterly Report on Form 10-Q for the quarter ended March 31, 2008, as filed with the SEC on May 12, 2007 (SEC File No. 001-32393);

Our Current Report on Form 8-K dated June 3, 2008, as filed with the SEC on June 6, 2008 (SEC File No. 001-32393);

Our Current Report on Form 8-K dated July 22, 2008, as filed with the SEC on July 28, 2008 (SEC File No. 001-32393);

Our Quarterly Report on Form 10-Q for the quarter ended June 30, 2008, as filed with the SEC on July 31, 2008 (SEC File No. 001-32393);

Our Current Report on Form 8-K dated August 6, 2008, as filed with the SEC on August 6, 2008 (SEC File No. 001-32393);

Our Current Report on Form 8-K dated August 28, 2008, as filed with the SEC on September 4, 2008 (SEC File No. 001-32393); and

The description of our common stock contained in our Registration Statement on Form 8-A, as filed with the SEC on December 20, 2007 (SEC File No. 001-32393).

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In addition, all documents filed by us pursuant to the Securities Exchange Act after the date of the initial filing of this registration statement and prior to effectiveness of the registration statement will be deemed to be incorporated by reference into this prospectus. Unless specifically stated to the contrary, none of the information that we disclose under Items 2.02 or 7.01 of any Current Report on Form 8-K that we may from time to time furnish to the SEC will be incorporated by reference into, or otherwise included in, this prospectus. We will provide without charge to each person, including any beneficial owner, to whom this prospectus is delivered, upon written or oral request, a copy of any or all of the documents that have been incorporated by reference in this prospectus, other than the exhibits to such documents unless the exhibits are specifically requested or are specifically incorporated by reference into the documents incorporated by reference in this prospectus. Requests should be directed to:

Environmental Power Corporation

120 White Plains Road, 6th Floor

Tarrytown, New York 10591

Attention: Senior Vice President,

Investor and Government Relations

Telephone: (914) 631-1435

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\$50,000,000

Debt Securities

PROSPECTUS

, 2008

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The following table sets forth the various expenses to be incurred in connection with the sale and distribution of the securities being registered hereby, all of which will be borne by Environmental Power Corporation. All amounts shown are estimates except the Securities and Exchange Commission registration fee.

Filing Fee Securities and Exchange Commission	\$ 1,965
Legal fees and expenses	\$ 35,000*
Accounting fees and expenses	\$ 30,000*
Printing, engraving and shipping	\$ 10,000*
Miscellaneous expenses	\$ 23,035*
Total Expenses	\$ 100,000*

* Estimated

Item 15. Indemnification of Directors and Officers.

Section 102 of the Delaware General Corporation Law allows a corporation to eliminate the personal liability of directors of a corporation to the corporation or its stockholders for monetary damages for a breach of fiduciary duty as a director, except where the director breached his duty of loyalty, failed to act in good faith, engaged in intentional misconduct or knowingly violated a law, authorized the payment of a dividend or approved a stock repurchase in violation of Delaware corporate law or obtained an improper personal benefit. Environmental Power Corporation has included such a provision in its restated certificate of incorporation.

Section 145 of the General Corporation Law of Delaware provides that a corporation has the power to indemnify a director, officer, employee or agent of the corporation and certain other persons serving at the request of the corporation in related capacities against amounts paid and expenses incurred in connection with an action or proceeding to which he is or is threatened to be made a party by reason of such position, if such person shall have acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation, and, in any criminal proceeding, if such person had no reasonable cause to believe his conduct was unlawful; provided that, in the case of actions brought by or in the right of the corporation, no indemnification shall be made with respect to any matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the adjudicating court determines that such indemnification is proper under the circumstances.

Section 145 of the Delaware General Corporation Law permits us to indemnify, under certain circumstances, any person acting on our behalf who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative for expenses related to such proceeding if the person acted in good faith and in a manner the person reasonable believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe that the person's conduct was unlawful. Our bylaws substantively provide that we will indemnify such persons to the fullest extent allowed by the Delaware General Corporation Law.

In addition, our certificate of incorporation limits the liability our of directors for monetary damages for breach of their fiduciary duty as a director other than for intentional misconduct, fraud or a knowing payment of a dividend in violation of Delaware law. Such provision limits recourse for money damages that might otherwise be available to us or our stockholders for negligence by directors acting on our behalf. Although these provisions

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would not prohibit injunctive or similar actions against these individuals, the practical effect of such relief would be limited. This limitation of liability under state law does not apply to any liabilities that may exist under federal securities laws. We have also purchased directors and officers liability insurance which would indemnify our directors and officers against damages arising out of certain kinds of claims which might be made against them based on their negligent acts or omissions while acting in their capacity as such.

We have entered into an indemnification agreement with Joseph E. Cresci, one of our directors, whereby we agree to indemnify him against any loss, liability, cost or other expense that he incurs in relation to certain of his activities related to his acting as either fiduciary or agent of all of our employee welfare benefit plans, employee pension benefit plans and benefit plans.

We have also entered into an indemnification agreement with Richard E. Kessel, our president and chief executive officer. This indemnification agreement provides for the indemnification of Mr. Kessel in his capacity as an officer and/or director of Environmental Power to the fullest extent allowed under our bylaws and Delaware law, and also provides for further indemnification in connection with any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative, to which Mr. Kessel is a party or a witness, by reason of the fact he is or was an officer or director of Environmental Power, in each case to the extent that Mr. Kessel has satisfied applicable standards of conduct. The indemnification agreement further provides for customary procedures regarding defense of claims, advancement of expenses and enforcement.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to our directors, officers and controlling persons, or otherwise, we have been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable.

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Item 16. Exhibits

EXHIBIT NUMBER	DESCRIPTION
1.1	Form of Underwriting Agreement (to be filed by post-effective amendment to this registration statement or as an exhibit to a current report of the registrant on Form 8-K and incorporated herein by reference).
3.1	Restated Certificate of Incorporation of the Registrant, as amended (Incorporated by reference to Exhibit 3.01 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2007, as filed with the Commission on November 14, 2007 (SEC File No. 001-32393)).
3.2	Certificate of Designations, Preferences and Rights of the Registrant's Series A 9% Cumulative Convertible Preferred Stock (Incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K dated November 9, 2006, as filed with the SEC on November 14, 2006 (SEC File No. 001-32393)).
3.3	Second Amended and Restated Bylaws of the Registrant (Incorporated by reference to Exhibit 3.01 to the Registrant's Current Report on Form 8-K dated December 7, 2007, as filed with the Commission on December 13, 2007 (SEC File No. 001-32393)).
4.1*	Form of Indenture for Senior Debt Securities.
4.2*	Form of Indenture for Subordinated Debt Securities.
4.3	Form of Senior Debt Security (the form of any senior debt security with respect to each particular series of senior debt securities issued hereunder will be filed by post-effective amendment to this registration statement or as an exhibit to a current report of the registrant on Form 8-K and incorporated herein by reference).
4.4	Form of Subordinated Debt Security (the form of any subordinated debt security with respect to each particular series of subordinated debt securities issued hereunder will be filed by post-effective amendment to this registration statement or as an exhibit to a current report of the registrant on Form 8-K and incorporated herein by reference).
5.1	Opinion of Pierce Atwood LLP.
12.1*	Statement of Computation of Ratio of Earnings (Deficit) to Fixed Charges.
23.1	Consent of Vitale, Caturano & Co., Ltd.
23.3	Consent of Pierce Atwood LLP (included in Exhibit 5.1 filed herewith).
24.1*	Power of Attorney (included in the signature pages to the initial filing of this Registration Statement).
25.1	Form T-1 Statement of Eligibility of Trustee under Indenture for Senior Debt Securities under the Trust Indenture Act of 1939, as amended (to be incorporated herein by reference from a subsequent filing in accordance with Section 305(b)(2) of the Trust Indenture Act of 1939).
25.2	Form T-1 Statement of Eligibility of Trustee under Indenture for Subordinated Debt Securities under the Trust Indenture Act of 1939, as amended (to be incorporated herein by reference from a subsequent filing in accordance with Section 305(b)(2) of the Trust Indenture Act of 1939).

* Previously filed.

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Item 17. Undertakings.

(a) The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

- (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;
- (ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the Calculation of Registration Fee table in the effective registration statement;
- (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

provided, however, that paragraphs (a)(1)(i), (a)(1)(ii) and (a)(1)(iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the SEC by the registrant pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:

- (i) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and
- (ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the

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registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof. *Provided, however,* that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any

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statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.

(5) That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities: The undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- (i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
- (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
- (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
- (iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

(b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted against the registrant by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

(d) The undersigned registrant hereby undertakes that:

(1) For purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective; and

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(2) For the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(e) The undersigned registrant hereby undertakes to file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the Commission under Section 305(b)(2) of the Act.

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Pursuant to the requirements of the Securities Act of 1933, as amended, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Tarrytown, New York, on September 10, 2008.

ENVIRONMENTAL POWER CORPORATION

By: /s/ RICHARD E. KESSEL
Richard E. Kessel
President and Chief Executive Officer

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933 this registration statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u> </u> /s/ RICHARD E. KESSEL Richard E. Kessel	President, Chief Executive Officer and Director (Principal Executive Officer)	September 10, 2008
<u> </u> /s/ MICHAEL E. THOMAS Michael E. Thomas	Senior Vice President, Chief Financial Officer and Treasurer (Principal Financial and Accounting Officer)	September 10, 2008
<u> </u> Roger S. Ballentine	Director	
<u> </u> * Joseph E. Cresci	Chairman of the Board of Directors	September 10, 2008
<u> </u> * John R. Cooper	Director	September 10, 2008
<u> </u> * Lon Hatamiya	Director	September 10, 2008
<u> </u>	Director	

Steven Kessner

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<u>Signature</u>	<u>Title</u>	<u>Date</u>
<hr/> *	Director	September 10, 2008
August Schumacher, Jr.		
<hr/> *	Vice Chairman of the Board of Directors	September 10, 2008
Kamlesh R. Tejwani		
<hr/>	Director	
Robert I. Weisberg		

*By: /s/ MICHAEL E. THOMAS
Attorney-in-Fact

Table of Contents**EXHIBIT INDEX**

EXHIBIT NUMBER	DESCRIPTION
1.1	Form of Underwriting Agreement (to be filed by post-effective amendment to this registration statement or as an exhibit to a current report of the registrant on Form 8-K and incorporated herein by reference).
3.1	Restated Certificate of Incorporation of the Registrant, as amended (Incorporated by reference to Exhibit 3.01 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2007, as filed with the Commission on November 14, 2007 (SEC File No. 001-32393)).
3.2	Certificate of Designations, Preferences and Rights of the Registrant's Series A 9% Cumulative Convertible Preferred Stock (Incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K dated November 9, 2006, as filed with the SEC on November 14, 2006 (SEC File No. 001-32393)).
3.3	Second Amended and Restated Bylaws of the Registrant (Incorporated by reference to Exhibit 3.01 to the Registrant's Current Report on Form 8-K dated December 7, 2007, as filed with the Commission on December 13, 2007 (SEC File No. 001-32393)).
4.1*	Form of Indenture for Senior Debt Securities.
4.2*	Form of Indenture for Subordinated Debt Securities.
4.3	Form of Senior Debt Security (the form of any senior debt security with respect to each particular series of senior debt securities issued hereunder will be filed by post-effective amendment to this registration statement or as an exhibit to a current report of the registrant on Form 8-K and incorporated herein by reference).
4.4	Form of Subordinated Debt Security (the form of any subordinated debt security with respect to each particular series of subordinated debt securities issued hereunder will be filed by post-effective amendment to this registration statement or as an exhibit to a current report of the registrant on Form 8-K and incorporated herein by reference).
5.1	Opinion of Pierce Atwood LLP.
12.1*	Statement of Computation of Ratio of Earnings (Deficit) to Fixed Charges.
23.1	Consent of Vitale, Caturano & Co., Ltd.
23.3	Consent of Pierce Atwood LLP (included in Exhibit 5.1 filed herewith).
24.1*	Power of Attorney (included in the signature pages to the initial filing of this Registration Statement).
25.1	Form T-1 Statement of Eligibility of Trustee under Indenture for Senior Debt Securities under the Trust Indenture Act of 1939, as amended (to be incorporated herein by reference from a subsequent filing in accordance with Section 305(b)(2) of the Trust Indenture Act of 1939).
25.2	Form T-1 Statement of Eligibility of Trustee under Indenture for Subordinated Debt Securities under the Trust Indenture Act of 1939, as amended (to be incorporated herein by reference from a subsequent filing in accordance with Section 305(b)(2) of the Trust Indenture Act of 1939).

* Previously filed.