

FIRSTENERGY CORP  
Form U-9C-3  
March 23, 2005

U.S. SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549  
FORM U-9C-3

QUARTERLY REPORT PURSUANT TO RULE 58 OF  
THE PUBLIC UTILITY HOLDING COMPANY ACT OF 1935

For the quarterly period ended December 31, 2004

FirstEnergy Corp. (File No. 70-09501)

(Name of Registered Holding Company)

76 South Main Street, Akron, Ohio 44308

(Address of Principal Executive Offices)

FirstEnergy Corp.

Quarterly Report Pursuant to Rule 58 of  
the Public Utility Holding Company Act of 1935

For the quarterly period ended December 31, 2004

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Note: All dollar amounts shown in this Form U-9C-3 are expressed in thousands unless otherwise noted.

## ITEM 1 - ORGANIZATION CHART

| Name of Reporting Company                      | Energy (ERC) or Gas (GRC) Related Company | Date of Organization | State of Organization | Percentage of Voting Securities Held | Nature of Business |
|--|---|----------------------|-----------------------|--------------------------------------|--------------------|
| <b><u>FirstEnergy Corp. (a)</u></b>            |   |                      |                       |                                      |                    |
| FirstEnergy Ventures Corp. (b)                 |   |                      |                       |                                      |                    |
| Bay Shore Power Company (d)                    | ERC                                       | 01/26/1998           | Ohio                  | 100.0                                | (h)                |
| Centerior Energy Services, Inc. (d)            | ERC                                       | 06/01/1994           | Ohio                  | 100.0                                | (i)                |
| Eastroc Technologies, LLC (c)                  | ERC                                       | 04/30/1996           | Delaware              | 50.0 **                              | (j)                |
| Engineered Processes, Ltd. (c)                 | ERC                                       | 12/30/1996           | Ohio                  | 50.0 **                              | (j)                |
| Warrenton River Terminal, Ltd. (d)             | ERC                                       | 09/03/1996           | Ohio                  | 100.0                                | (k)                |
| FirstEnergy Facilities Services Group, LLC (b) |   |                      |                       |                                      |                    |
| Dunbar Mechanical, Inc. (e)                    | ERC                                       | 07/16/1956           | Ohio                  | 100.0                                | (g)                |
| Edwards Electrical & Mechanical, Inc. (e)      | ERC                                       | 02/28/1968           | Indiana               | 100.0                                | (g)                |
| Elliot-Lewis Corporation (e)                   | ERC                                       | 05/21/1998           | Pennsylvania          | 100.0                                | (g)                |
| A. A. Duckett, Inc.                            | ERC                                       | 03/01/1973           | Delaware              | 100.0                                | (g)                |
| Duckett Plumbing, LLC                          | ERC                                       | 09/19/2003           | New Jersey            | 90.0                                 | (g)                |
| Sautter Crane Rental, Inc.                     | ERC                                       | 12/10/1991           | Pennsylvania          | 100.0                                | (l)                |
| E-L Enterprises, Inc.                          |   |                      |                       |                                      |                    |
| Modern Air Conditioning, Inc.                  | ERC                                       | 04/27/1965           | Florida               | 100.0                                | (g)                |
| Airdex Air Conditioning Corporation            | ERC                                       | 01/18/1995           | Florida               | 100.0                                | (g)                |
| R.L. Anderson, Inc.                            | ERC                                       | 08/28/1961           | Florida               | 100.0                                | (g)                |
| L.H. Cranston and Sons, Inc. (e)               | ERC                                       | 01/02/1951           | Maryland              | 100.0                                | (g)                |
| Roth Bros., Inc. (e)                           | ERC                                       | 09/06/1947           | Ohio                  | 100.0                                | (g)                |
| The Hattenbach Company (e)                     | ERC                                       | 03/21/1969           | Ohio                  | 100.0                                | (m)                |
| R.P.C. Mechanical, Inc. (e)                    | ERC                                       | 04/21/1959           | Ohio                  | 100.0                                | (g)                |
| Spectrum Controls Systems, Inc. (e)            | ERC                                       | 04/18/1988           | Ohio                  | 100.0                                | (g)                |
| FirstEnergy Solutions Corp. (b)                |   |                      |                       |                                      |                    |
| FirstEnergy Engineering, Inc. (f)              | ERC                                       | 08/08/1997           | Ohio                  | 100.0                                | (n)                |
|  | ERC                                       | 08/09/1996           | Ohio                  | 100.0                                | (t)                |
|  | ERC                                       | 08/03/2000           | Delaware              | 100.0                                | (r)                |

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|  |     |            |            |        |     |
|--|-----|------------|------------|--------|-----|
| GPU Diversified Holdings,<br>LLC (GPUDH) (b) |     |            |            |        |     |
| GPU Solar, Inc.                              | ERC | 11/07/1997 | New Jersey | 50.0** | (s) |
| GPU Distributed Power, Inc. *                | ERC | 02/29/2000 | Delaware   | 100.0  |     |
| Ballard Power Systems Inc. (c)               | ERC |            |            |        | (v) |
| EnviroTech Investment Fund<br>I, LP (c)      | ERC |            |            | 9.9**  | (u) |
| EnerTech Capital Partners II,<br>LP (c)      | ERC |            |            | 2.0**  | (w) |

\* Inactive

\*\* Set forth the percentage of interest held directly or indirectly by FirstEnergy Corp.

## ITEM 1 - ORGANIZATION CHART (Continued)

| Name of Reporting Company   | Energy<br>(ERC) or<br>Gas (GRC)<br>Related<br>Company | Date of<br>Organization | State of<br>Organization | Percentage<br>of Voting<br>Securities<br>Held | Nature of<br>Business |
|---|---|-------------------------|--------------------------|---|-----------------------|
| <b><u>FirstEnergy Corp. (a)</u></b><br><b><u>(Continued)</u></b>        |   |                         |                          |   |                       |
| Ohio Edison Company (OE) (b)<br>EnviroTech Investment Fund I,<br>LP (c) | ERC   |                         |                          | 6.0 **  | (u)                   |
| PowerSpan Corp. (c)   | ERC   | 05/01/1997              | Delaware                 | 25.41<br>**                                   | (o)                   |
| Kinetic Ventures I, LLC (c)   | ERC   | 04/15/1997              | Delaware                 | 11.11<br>**                                   | (p)                   |
| Kinetic Ventures II, LLC (c)  | ERC   | 12/07/1999              | Delaware                 | 14.28<br>**                                   | (p)                   |
| Nth Power Technologies II,<br>LLC (c)                                   | ERC   |                         |                          | 8.2 **  | (q)                   |
| Utility.com, Inc. (c) *   | ERC   |                         |                          | 5.0 **  | (n)                   |
| Automated Power Exchange,<br>Inc. (c)                                   | ERC   |                         |                          | 1.16 **                                       | (n)                   |

\* Inactive

\*\* Set forth the percentage of interest held directly or indirectly by FirstEnergy Corp.

ITEM 1 - ORGANIZATION CHART (Continued)

- (a) FirstEnergy Corp., a registered holding company, holds securities directly or indirectly in the energy-related companies set below its name.
- (b) These companies are direct wholly owned subsidiaries of FirstEnergy Corp.
- (c) FirstEnergy Corp. owns an interest directly or indirectly in these energy-related companies or venture capital funds set below its name.
  - (d) These companies are direct wholly owned subsidiaries of FirstEnergy Ventures Corp.
  - (e) These companies are direct wholly owned subsidiaries of FirstEnergy Facilities Services Group, LLC.
  - (f) This company is direct wholly owned subsidiary of FirstEnergy Solutions Corp.
- (g) This subsidiary provides HVAC equipment installation and services, facilities management, and energy management.
- (h) This subsidiary owns and operates a petroleum coke disposal facility that will supply steam for the Bay Shore Power Plant and to BP Amoco Corporation.
  - (i) This subsidiary provides various consulting services related to energy management and procurement.
- (j) This subsidiary holds the patent on plaster, which is manufactured using the by-Products of coal-fired generation facilities.
- (k) This subsidiary owns facilities for the transloading of bulk materials (primarily coal) on the Ohio River. The coal is in part used by the FirstEnergy Operating Companies at various generation facilities.
  - (l) This subsidiary provides crane rental services.
  - (m) This subsidiary provides refrigeration sales and services to commercial entities.
  - (n) This subsidiary engages in the brokering and marketing of energy commodities.
- (o) This company was formed to utilized advanced technology to reduce emissions of NO<sub>x</sub>, SO<sub>2</sub> and particulate matter from utility generation facilities.
- (p) This venture capital fund is focused on early stage companies involved in energy-related field and technology.
  - (q) This venture capital fund is focused on emerging technologies in the global energy industry.
- (r) This energy-related company holds securities directly in the energy-related company set below its name.
  - (s) This subsidiary is involved in the development and commercialization of photovoltaics.
    - (t) This subsidiary provides engineering services.
- (u) An investment fund which invests in energy-related technology. GPUDH owns a 9.89% interest and OE owns a 6% interest.
- (v) GPU Diversified Holdings LLC owns 1,366,062 shares of Ballard Power Systems Inc. (BPS) common stocks. BPS develops stationary fuel cell systems.
  - (w) An investment fund which invests in energy-related technology.

ITEM 1 - ORGANIZATION CHART (Continued)

Narrative Description of Activities for Reporting Period

During the fourth quarter 2004, FirstEnergy converted its loan to PowerSpan Corp. to shares of Series C Convertible Preferred Stock. As a result, FirstEnergy's ownership in PowerSpan Corp. increased from 18.63% to 25.41%.

ITEM 2 - ISSUANCES AND RENEWALS OF SECURITIES AND CAPITAL CONTRIBUTIONS

| Company Issuing Security | Type of Security Issued | Principal Amount of Security | Issue or Renewal | Cost of Capital | Company to Whom Security Was Issued | Collateral Given with Security | Consideration Received For Each Security |
|--------------------------|-------------------------|------------------------------|------------------|-----------------|-------------------------------------|--------------------------------|--|
| None.                    |                         |                              |                  |                 |                                     |                                |  |

| Company Contributing Capital | Company Receiving Capital | Amount of Capital Contribution |
|------------------------------|---------------------------|--------------------------------|
| FirstEnergy Corp.            | PowerSpan Corp.           | \$ 7,722                       |
| FirstEnergy Corp.            | Kinetic Ventures II, LLC  | \$ 345                         |

Note: The information provided in Item 2 represents the activities of the reporting period only.



## ITEM 3 - ASSOCIATE TRANSACTIONS

## Part I - Transactions Performed by Reporting Companies on Behalf of Associate Companies

| Reporting Company Rendering Services | Associate Company Receiving Services  | Types of Services Rendered                         | Total Amount Billed |
|--------------------------------------|---------------------------------------|--|---------------------|
| Bay Shore Power Company              | FirstEnergy Generation Corp.          | Sale of steam                                      |                     |
| Centerior Energy Services, Inc.      | FirstEnergy Solutions Corp.           | Energy consulting services                         |                     |
| Dunbar Mechanical, Inc.              | FirstEnergy Generation Corp.          | HVAC services                                      |                     |
| Dunbar Mechanical, Inc.              | FirstEnergy Nuclear Operating Company | HVAC services                                      |                     |
| Elliot-Lewis Corporation             | Jersey Central Power & Light Company  | HVAC services                                      |                     |
| FirstEnergy Solutions Corp.          | FirstEnergy Generation Corp.          | Natural gas procurement & scheduling services      |                     |
| Roth Bros., Inc.                     | FirstEnergy Generation Corp.          | HVAC services                                      |                     |
| Roth Bros., Inc.                     | FirstEnergy Nuclear Operating Company | HVAC services                                      |                     |
| Roth Bros., Inc.                     | FirstEnergy Service Company           | HVAC services                                      |                     |
| Sautter Crane Rental, Inc.           | Metropolitan Edison Company           | Crane rental                                       |                     |
| Sautter Crane Rental, Inc.           | Jersey Central Power & Light Company  | Crane rental                                       |                     |
| Warrenton River Terminal, Ltd.       | FirstEnergy Generation Corp.          | Loading, unloading and storage of coal and petcoke |                     |

Note: The information provided in Item 3 represents the activities of the reporting period only. The amounts required under the caption "Total Amount Billed" are being filed pursuant to request for confidential treatment.



ITEM 3 - ASSOCIATE TRANSACTIONS (Continued)

Part II - Transactions Performed by Associate Companies on Behalf of Reporting Companies

| Associate Company Rendering Services | Reporting Company Receiving Services | Types of Services Rendered                            | Total Amount Billed |
|--------------------------------------|--------------------------------------|---|---------------------|
| FirstEnergy Service Company          | GPU Diversified Holdings LLC         | Legal and certain general and administrative services |                     |
| FirstEnergy Generation Corp.         | Bay Shore Power Company              | Sale of fuel oil                                      |                     |
| FirstEnergy Generation Corp.         | Bay Shore Power Company              | Plant operation & maintenance services                |                     |
| FirstEnergy Service Company          | FirstEnergy Solutions Corp.          | General and administrative services                   |                     |

Note: The information provided in Item 3 represents the activities of the reporting period only. The amounts required under the caption "Total Amount Billed" are being filed pursuant to request for confidential treatment.

## ITEM 4 - SUMMARY OF AGGREGATE INVESTMENT

Investments in energy-related companies:

|  |    |            |        |
|--|----|------------|--------|
| <u>Total average consolidated capitalization as of Dec. 31, 2004</u>   | \$ | 20,344,566 | Line 1 |
| Total capitalization multiplied by 15% (line 1 multiplied by 0.15)   |    | 3,051,685  | Line 2 |
| Greater of \$50 million or line 2  | \$ | 3,051,685  | Line 3 |
| Total current aggregate investment:  |    |            |        |
| (categorized by major line of energy-related business)   |    |            |        |
| Development and commercialization of photovoltaics (Category II)   |    | 15,355     |        |
| Production, conversion, sale and distribution of thermal energy products (Category VI)   |    | 29,063     |        |
| Sale of technical, operational, management, and other services related to HVAC, refrigeration systems (Category VII)   |    | 4,295      |        |
| Fuel transportation, handling and storage facilities (Category IX)   |    | 50         |        |
| Total current aggregate investment   |    | 48,763     | Line 4 |
| Difference between the greater of \$50 million or 15% of capitalization and the total aggregate investment of the registered holding company system (line 3 less line 4) | \$ | 3,002,922  | Line 5 |

Note: The caption "Total average consolidated capitalization" includes total common equity, preferred equity (including amounts due within one year), long-term debt (including amounts due within one year) and short-term debt.

The caption "Total current aggregate investment" includes all amounts invested or committed to be invested in energy-related companies on or after the date of effectiveness of Rule 58 (March 24, 1997), or after FirstEnergy Corp. registered as a holding company (November 7, 2001) for which there is recourse, directly or indirectly, to FirstEnergy Corp. or any subsidiary company thereof. The amounts do not include purchase accounting adjustments.

## ITEM 5 - OTHER INVESTMENTS

| Major Line of Energy-Related Business  | Aggregate Investment as of Sept. 30, 2004 | Change in Investments During Reporting Period | Reason for Change in Investments   |
|--|---|---|--|
| Energy management services (Category I)  | \$ 1,766 <sup>(1)</sup>                   | -   | No change.   |
| Development and commercialization of electrotechnologies (Category II)   | 59,771 <sup>(2)</sup>                     | \$ 8,067                                      | In the fourth quarter of 2004, FirstEnergy made \$7,722 thousand capital contribution to PowerSpan Corp. and \$345 thousand to Kinetic Ventures II, LLC. |
| Energy services and retail energy sales (Category V)   | 18,158 <sup>(3)</sup>                     | -   | No change.   |
| Production, conversion, sale and distribution of thermal energy products (Category VI)                               | 70,913 <sup>(4)</sup>                     | -   | No change.   |
| Sale of technical, operational, management, and other services related to HVAC, refrigeration systems (Category VII) | 191,115 <sup>(5)</sup>                    | -   | No change.   |
| Fuel transportation, handling and storage facilities (Category IX)   | 4,959 <sup>(6)</sup>                      | -   | No change.   |
| Development and commercialization of technologies that utilize coal waste by-products (Category X)                   | 46 <sup>(7)</sup>                         | -   | No change.   |

(1) Includes \$1,766 that was invested in energy-related companies, prior to FirstEnergy Corp. registered as a holding company (November 7, 2001).

(2) Includes \$52,483 that was invested in energy-related companies, prior to FirstEnergy Corp. registered as a holding company (November 7, 2001).

(3) Includes \$18,158 that was invested in energy-related companies, prior to FirstEnergy Corp. registered as a holding company (November 7, 2001).

(4) Includes \$41,850 that was invested in energy-related companies, prior to FirstEnergy Corp. registered as a holding company (November 7, 2001).

(5) Includes \$186,820 that was invested in energy-related companies, prior to FirstEnergy Corp. registered as a holding company (November 7, 2001).

- (6) Includes \$4,909 that was invested in energy-related companies, prior to FirstEnergy Corp. registered as a holding company (November 7, 2001).
- (7) Includes \$46 that was invested in energy-related companies, prior to FirstEnergy Corp. registered as a holding company (November 7, 2001).

ITEM 6 - FINANCIAL STATEMENTS AND EXHIBITS

A. Financial Statements

- A-1 Financial statements of FirstEnergy Solutions Corp. - not required for the last quarterly period of the registered holding company's fiscal year.
- A-2 Financial statements of GPU Diversified Holdings LLC - not required for the last quarterly period of the registered holding company's fiscal year.
- A-3 Financial statements of Bay Shore Power Company - not required for the last quarterly period of the registered holding company's fiscal year.
- A-4 Financial statements of Centerior Energy Services, Inc. - not required for the last quarterly period of the registered holding company's fiscal year.
- A-5 Financial statements of Warrenton River Terminal, Ltd. - not required for the last quarterly period of the registered holding company's fiscal year.
- A-6 Financial statements of Dunbar Mechanical, Inc. - not required for the last quarterly period of the registered holding company's fiscal year.
- A-7 Financial statements of Edwards Electrical & Mechanical, Inc. - not required for the last quarterly period of the registered holding company's fiscal year.
- A-8 Financial statements of Elliot-Lewis Corporation - not required for the last quarterly period of the registered holding company's fiscal year.
- A-9 Financial statements of L.H. Cranston and Sons, Inc. - not required for the last quarterly period of the registered holding company's fiscal year.
- A-10 Financial statements of Roth Bros., Inc. - not required for the last quarterly period of the registered holding company's fiscal year.
- A-11 Financial statements of The Hattenbach Company - not required for the last quarterly period of the registered holding company's fiscal year.
- A-12 Financial statements of R.P.C. Mechanical, Inc. - not required for the last quarterly period of the registered holding company's fiscal year.
- A-13 Financial statements of Spectrum Controls Systems, Inc. - not required for the last quarterly period of the registered holding company's fiscal year.
- A-14 Financial statements of GPU Solar, Inc. - not required for the last quarterly period of the registered holding company's fiscal year.





ITEM 6 - FINANCIAL STATEMENTS AND EXHIBITS (Continued)

B. Exhibits

Contracts Required by Item 3

- B-1 Stockholders Agreement made and entered into as of January 7, 1998 by and among GPU International, Inc., AstroPower, Inc. and GPU Solar, Inc. (in connection with the sale of GPU International, Inc. on December 22, 2000, the Stockholders Agreement was amended such that GPU International, Inc. transferred its interest in GPU Solar, Inc. and its rights and responsibilities under the Stockholders Agreement to GPU Diversified Holdings LLC) - incorporated by reference to Exhibit B-12 to GPU's Quarterly Report on Form U-9C-3 for the period ended December 31, 2000.
- B-2 Amendment No. 1 to Stockholders Agreement made and entered into as of December 1, 2000 by and among GPU International, Inc., AstroPower, Inc., GPU Diversified Holdings LLC and GPU Solar, Inc. (this amendment essentially transferred GPU International, Inc.'s interest in GPU Solar, Inc. and its rights and responsibilities under the Stockholders Agreement to GPU Diversified Holdings LLC) - incorporated by reference to Exhibit B-13 to GPU's Quarterly Report on Form U-9C-3 for the period ended December 31, 2000.
- B-3 Contract between FirstEnergy Service Company and GPU Diversified Holdings LLC to provide legal and certain general and administrative services - incorporated by reference to Exhibit B-3 to FirstEnergy's Quarterly Report on Form U-9C-3 for the period ended September 30, 2003.
- B-4 Contract between FirstEnergy Service Company and FirstEnergy Solutions Corp. to provide legal and certain general and administrative services - incorporated by reference to Exhibit B-4 to FirstEnergy's Quarterly Report on Form U-9C-3 for the period ended September 30, 2003.
- Note: Services rendered by all other FirstEnergy energy related companies to their associate companies are provided pursuant to written and oral contracts.

C. Certificate of FirstEnergy Corp.

SIGNATURE

The undersigned registered holding company has duly caused this quarterly report to be signed on its behalf by the undersigned officer thereunto duly authorized pursuant to the requirements of the Public Utility Holding Company Act of 1935.

FirstEnergy Corp.

March 23, 2005

By:

/s/ Harvey L. Wagner  
Harvey L. Wagner  
Vice President, Controller  
and Chief Accounting Officer  
(Principal Accounting Officer)