

NATIONAL GRID PLC  
Form 11-K  
June 29, 2011

**SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM 11-K**

þ **ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
For the fiscal year ended December 31, 2010**

**OR**

o **TRANSITION REPORT PURSUANT TO 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

**For the transition period from \_\_\_\_\_ to \_\_\_\_\_**

**Commission File Number 1-14958**

**National Grid USA Companies**

**Incentive Thrift Plan II**

National Grid USA

40 Sylvan Rd

Waltham, MA 02451-1120

**National Grid plc**

1-3 Strand

London WC2N 5EH

England

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**REQUIRED INFORMATION**

The financial statements required by Form 11-K are filed as exhibits and incorporated herein by reference.

**EXHIBITS**

99.1 Financial statements of National Grid USA Companies Incentive Thrift Plan II

99.2 Consent of Clifton Gunderson LLP, independent registered public accounting firm

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**SIGNATURE**

Pursuant to the requirements of the Securities Exchange Act of 1934, the National Grid USA Service Company, Inc. Benefits Committee (the Plan Administrator for the National Grid USA Companies Incentive Thrift Plan I) has duly caused this annual report to be signed on its behalf by the undersigned hereunto duly authorized.

NATIONAL GRID USA COMPANIES  
INCENTIVE THRIFT PLAN II

Date: June 29, 2011

By /s/ Lorraine Lynch  
Lorraine Lynch  
Member  
National Grid USA Service Company,  
Inc. Investment Committee