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- 0 SHARES
6. SHARED VOTING POWER  
3,555,607 SHARES
7. SOLE DISPOSITIVE POWER  
0 SHARES
8. SHARED DISPOSITIVE POWER  
3,555,607 SHARES
9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
3,555,607 SHARES
10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN  
SHARES
- NOT APPLICABLE
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
- 4.6%
12. TYPE OF REPORTING PERSON
- HC

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ITEM 1.

- (A) NAME OF ISSUER
- INTEGRYS ENERGY GROUP INC
- (B) ADDRESS OF ISSUERS PRINCIPAL EXECUTIVE OFFICES
- 130 EAST RANDOLPH DRIVE  
CHICAGO, IL 60601

ITEM 2.

- (A) NAME OF PERSON FILING
- STATE STREET CORPORATION AND ANY OTHER REPORTING PERSON  
IDENTIFIED ON THE SECOND PART OF THE COVER PAGES HERETO
- (B) ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE,  
RESIDENCE
- STATE STREET FINANCIAL CENTER  
ONE LINCOLN STREET  
BOSTON, MA 02111  
(FOR ALL REPORTING PERSONS)

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(C) CITIZENSHIP: SEE ITEM 4 (CITIZENSHIP OR PLACE OF ORGANIZATION) OF COVER PAGES

(D) TITLE OF CLASS OF SECURITIES  
COMMON STOCK, \$1.00 PAR VALUE PER SHARE

(E) CUSIP NUMBER:

45822P105

ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13D-1(B), OR 13D-2(B), OR (C), CHECK WHETHER THE PERSON FILING IS A:

SEE ITEM 12 (TYPE OF REPORTING PERSON) OF THE COVER PAGE FOR EACH REPORTING PERSON AND THE TABLE BELOW, WHICH EXPLAINS THE MEANING OF THE TWO LETTER SYMBOLS APPEARING IN ITEM 12 OF THE COVER PAGES.

SYMBOL CATEGORY

BK	BANK AS DEFINED IN SECTION 3(A)(6) OF THE ACT.
IC	INSURANCE COMPANY AS DEFINED IN SECTION 3 (A)(19) OF THE ACT.

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IC	INVESTMENT COMPANY REGISTERED UNDER SECTION 8 OF THE INVESTMENT COMPANY ACT OF 1940.
IA	AN INVESTMENT ADVISER IN ACCORDANCE WITH RULE 13D-1(B)(1)(II)(E).
EP	AN EMPLOYEE BENEFIT PLAN OR ENDOWMENT FUND IN ACCORDANCE WITH RULE 13D-1(B)(1)(II)(F).
HC	A PARENT HOLDING COMPANY OR CONTROL PERSON IN ACCORDANCE WITH RULE 13D-1(B)(1)(II)(G).
SA	A SAVINGS ASSOCIATIONS AS DEFINED IN SECTION 3(B) OF THE FEDERAL DEPOSIT INSURANCE ACT (12 U.S.C. 1813).
CP	A CHURCH PLAN THAT IS EXCLUDED FROM THE DEFINITION OF AN INVESTMENT COMPANY UNDER SECTION 3(C)(14) OF THE INVESTMENT COMPANY ACT OF 1940.

ITEM 4. OWNERSHIP

THE INFORMATION SET FORTH IN ROWS 5 THROUGH 11 OF THE COVER PAGE HERETO FOR EACH OF THE REPORTING PERSONS IS INCORPORATED HEREIN BY REFERENCE. THE PERCENTAGE AMOUNT SET FORTH IN ROW 11 FOR ALL COVER PAGES FILED HERewith IS CALCULATED BASED UPON THE 77,582,022 SHARES OF COMMON STOCK ISSUED AND OUTSTANDING AS REPORTED BY INTEGRYS ENERGY GROUP INC IN ITS FORM 10-Q FOR THE QUARTERLY PERIOD ENDED SEPTEMBER 30, 2010.

THIS REPORT IS NOT AN ADMISSION THAT ANY OF THE REPORTING PERSONS IS THE BENEFICIAL OWNER OF ANY SECURITIES COVERED BY THIS REPORT, AND THE REPORTING PERSONS EXPRESSLY DISCLAIM BENEFICIAL OWNERSHIP OF ALL SHARES PURSUANT TO RULE 13D-4, EXCEPT IN THEIR FIDUCIARY CAPACITY UNDER ERISA.

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS (X)

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ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON.  
  
NOT APPLICABLE

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ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY OR CONTROL PERSON  
  
SEE EXHIBIT 1 ATTACHED HERETO

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP  
  
NOT APPLICABLE

ITEM 9. NOTICE OF DISSOLUTION OF GROUP  
  
NOT APPLICABLE

ITEM 10. CERTIFICATION

BY SIGNING BELOW I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE SECURITIES REFERRED TO ABOVE WERE ACQUIRED AND ARE HELD IN THE ORDINARY COURSE OF BUSINESS AND WERE NOT ACQUIRED AND ARE NOT HELD FOR THE PURPOSE OR WITH THE EFFECT OF CHANGING OR INFLUENCING THE CONTROL OF THE ISSUER OF THE SECURITIES AND WERE NOT ACQUIRED AND ARE NOT HELD IN CONNECTION WITH OR AS A PARTICIPANT IN ANY TRANSACTION HAVING THAT PURPOSE OR EFFECT.

SIGNATURES

AFTER REASONABLE INQUIRY AND TO THE BEST OF HIS KNOWLEDGE AND BELIEF, EACH OF THE UNDERSIGNED CERTIFIES THAT THE INFORMATION SET FORTH IN THIS STATEMENT IS TRUE, COMPLETE AND CORRECT.

10 FEBRUARY 2011  
STATE STREET CORPORATION

/s/ JAMES J. MALERBA  
EXECUTIVE VICE PRESIDENT,  
CORPORATE CONTROLLER

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EXHIBIT 1

THE FOLLOWING TABLE LISTS THE IDENTITY AND ITEM 3 CLASSIFICATION OF EACH SUBSIDIARY OF STATE STREET CORPORATION, THE PARENT HOLDING COMPANY, THAT BENEFICIALLY OWNS THE ISSUERS COMMON STOCK. PLEASE REFER TO ITEM 3 OF THE ATTACHED SCHEDULE 13G FOR A DESCRIPTION OF EACH OF THE TWO-LETTER SYMBOLS REPRESENTING THE ITEM 3 CLASSIFICATION BELOW.

SUBSIDIARY	ITEM 3 CLASSIFICATION
STATE STREET BANK AND TRUST COMPANY	BK
STATE STREET GLOBAL ADVISORS FRANCE S.A.	IA
SSGA FUNDS MANAGEMENT, INC.	IA
STATE STREET GLOBAL ADVISORS LIMITED	IA
STATE STREET GLOBAL ADVISORS AUSTRALIA LIMITED	IA
STATE STREET GLOBAL ADVISORS LTD.	IA
STATE STREET GLOBAL ADVISORS JAPAN CO., LTD.	IA
STATE STREET GLOBAL ADVISORS ASIA LIMITED	IA

NOTE: ALL OF THE LEGAL ENTITIES ABOVE ARE DIRECT OR INDIRECT SUBSIDIARIES OF STATE STREET CORPORATION.