

FIRSTENERGY CORP  
Form U-13-60  
April 26, 2005

Form U-13-60  
Mutual and Subsidiary Service Companies  
Revised February 7, 1980

ANNUAL REPORT

FOR THE PERIOD

Beginning January 1, 2004 and Ending December 31, 2004

TO THE

U.S. SECURITIES AND EXCHANGE COMMISSION

OF

FIRSTENERGY SERVICE COMPANY  
(Exact Name of Reporting Company)

A Subsidiary Service Company  
("Mutual" or "Subsidiary")

Date of Incorporation October 11, 2001  
If not Incorporated, Date of Organization\_

State or Sovereign Power under which Incorporated or Organized Ohio

Location of Principal Executive Offices of Reporting Company:

76 S. Main St., Akron, OH 44308

Name, title, and address of officer to whom correspondence concerning this report should be addressed:

H. L. Wagner  
(Name)

Vice President & Controller  
(Title)

76 South Main Street  
Akron, OH 44308  
(Address)

Name of Principal Holding Company Whose Subsidiaries are served by Reporting Company:

FIRSTENERGY CORP. (File No. 070-09793)

INSTRUCTIONS FOR USE OF FORM U-13-60

1. Time of Filing. - Rule 94 provides that on or before the first day of May in each calendar year, each mutual service company and each subsidiary service company as to which the Commission shall have made a favorable finding pursuant to Rule 88, and every service company whose application for approval or declaration pursuant to Rule 88 is pending shall file with the Commission an annual report on Form U-13-60 and in accordance with the Instructions for that form.
2. Number of Copies. - Each annual report shall be filed in duplicate. The company should prepare and retain at least one extra copy for itself in case correspondence with reference to the report become necessary.
3. Period Covered by Report. - The first report filed by any company shall cover the period from the date the Uniform System of Accounts was required to be made effective as to that company under Rules 82 and 93 to the end of that calendar year. Subsequent reports should cover a calendar year.
4. Report Format. - Reports shall be submitted on the forms prepared by the Commission. If the space provided on any sheet of such form is inadequate, additional sheets may be inserted of the same size as a sheet of the form or folded to such size.
5. Money Amounts Displayed. - All money amounts required to be shown in financial statements may be expressed in whole dollars, in thousands of dollars or in hundred thousands of dollars, as appropriate and subject to provisions of Regulation S-X (S210.3-01(b)).
6. Deficits Displayed. - Deficits and other like entries shall be indicated by the use of either brackets or a parenthesis with corresponding reference in footnotes. (Regulation S-X, S210.3-01(c))
7. Major Amendments or Corrections. - Any company desiring to amend or correct a major omission or error in a report after it has been filed with the Commission shall submit an amended report including only those pages, schedules, and entries that are to be amended or corrected. A cover letter shall be submitted requesting the Commission to incorporate the amended report changes and shall be signed by a duly authorized officer of the company.
8. Definitions. - Definitions contained in Instruction 01-8 to the Uniform System of Accounts for Mutual Service Companies and Subsidiary Service Companies, Public Utility Holding Company Act of 1935, as amended February 2, 1979 shall be applicable to words or terms used specifically within this Form U-13-60.
9. Organization Chart. - The service company shall submit with each annual report a copy of its current organization chart.
10. Methods of Allocation. - The service company shall submit with each annual report a listing of the currently effective methods of allocation being used by the service company and on file with the Securities and Exchange Commission pursuant to the Public Utility Holding Company Act of 1935.
11. Annual Statement of Compensation for Use of Capital Billed. - The service company shall submit with each annual report a copy of the annual statement supplied to each associate company in support of the amount of compensation for use of capital billed during the calendar year.



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 LISTING OF SCHEDULES AND ANALYSIS OF ACCOUNTS

Description of Schedules and Accounts	Schedule or Account Number	Page Number
<u>Comparative Balance Sheet</u>	Schedule I	4-5
Service Company Property	Schedule II	6-7
Accumulated Provision For Depreciation And Amortization Of Service Company Property	Schedule III	8
Investments	Schedule IV	9
Accounts Receivable From Associate Companies	Schedule V	10-10L
Fuel Stock Expenses Undistributed	Schedule VI	11
Stores Expense Undistributed	Schedule VII	12
Miscellaneous Current And Accrued Assets	Schedule VIII	13
Miscellaneous Deferred Debits	Schedule IX	14
Research, Development, Or Demonstration Expenditures	Schedule X	15
Proprietary Capital	Schedule XI	16
Long-Term Debt	Schedule XII	17
Current And Accrued Liabilities	Schedule XIII	18-18B
Notes To Financial Statements	Schedule XIV	19-19C
<u>Comparative Income Statement</u>	Schedule XV	20
Analysis Of Billing - Associate Companies	Account 457	21
Analysis Of Billing - Nonassociate Companies	Account 458	22
Analysis Of Charges For Service - Associate And Nonassociate Companies	Schedule XVI	23
Schedule Of Expense By Department Or Service Function	Schedule XVII	24-25E
Departmental Analysis Of Salaries	Account 920	26
Outside Services Employed	Account 923	27-27I
Employee Pensions And Benefits	Account 926	28
General Advertising Expenses	Account 930.1	29-29E
Miscellaneous General Expenses	Account 930.2	30
Rents	Account 931	31
Taxes Other Than Income Taxes	Account 408	32
Donations	Account 426.1	33-33A
Other Deductions	Account 426.5	34
Notes To Statement Of Income	Schedule XVIII	35

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LISTING OF INSTRUCTIONAL FILING REQUIREMENTS

Description of Reports or Statements	Page Number
<u>Organization Chart</u>	36
<u>Methods Of Allocation</u>	37-37B
<u>Annual Statement Of Compensation For Use Of Capital Billed</u>	38

NOTE: Dollar figures in this report are shown in thousands unless otherwise noted.

ANNUAL REPORT OF FIRSTENERGY SERVICE COMPANYSCHEDULE I - COMPARATIVE BALANCE SHEET

Give balance sheet of the Company as of December 31 of the current and prior year.

<u>ACCOUNT</u>	<u>ASSET AND OTHER DEBITS</u>	As of December 31	
		CURRENT	PRIOR
<u>SERVICE COMPANY PROPERTY</u>			
101	Service company property (Schedule II)	\$ 326,511	\$ 421,403
107	Construction work in progress (Schedule II)	8,438	34,730
	Total Property	334,949	456,133
108	Less accumulated provision for depreciation and amortization of service company property (Schedule III)	165,768	173,297
	Net Service Company Property	169,181	282,836
<u>INVESTMENTS</u>			
123	Investments in associate companies (Schedule IV)	-	-
124	Other investments (Schedule IV)	165,039	152,659
	Total Investments	165,039	152,659
<u>CURRENT AND ACCRUED ASSETS</u>			
131	Cash	-	-
134	Special deposits	416	416
135	Working funds	969	949
136	Temporary cash investments (Schedule IV)	1,212	2,564
141	Notes receivable from associate companies	-	-
143	Accounts receivable	2,819	31,535
144	Accumulated provision for uncollectible Accounts receivable	(1,058)	(533)
145	Notes receivable from associate companies	2,600,492	2,802,133
146	Accounts receivable from associate companies (Schedule V)	302,556	244,049
152	Fuel stock expenses undistributed (Schedule VI)	-	-
154	Materials and supplies	73,939	69,305
163	Stores expenses undistributed (Schedule VII)	-	-
165	Prepayments	93,025	114,572
174	Miscellaneous current and accrued assets (Schedule VIII)	-	-
	Total Current and Accrued Assets	3,074,370	3,264,990
<u>DEFERRED DEBITS</u>			

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181	Unamortized debt expense	-	-
184	Clearing accounts	239	599
186	Miscellaneous deferred debits (Schedule IX)	45,437	42,527
188	Research, development, or demonstration expenditures (Schedule X)	267	-
190	Accumulated deferred income taxes	74,268	94,821
	Total Deferred Debits	120,211	137,947
	<b>TOTAL ASSETS AND OTHER DEBITS</b>	<b>\$ 3,528,801</b>	<b>\$ 3,838,432</b>



ANNUAL REPORT OF FIRSTENERGY SERVICE COMPANYSCHEDULE I - COMPARATIVE BALANCE SHEET

<u>ACCOUNT</u>	<u>LIABILITIES AND PROPRIETARY CAPITAL</u>	As of December 31	
		<u>CURRENT</u>	<u>PRIOR</u>
<u>PROPRIETARY CAPITAL</u>			
201	Common stock issued (Schedule XI)	\$ 1	\$ 1
211	Miscellaneous paid-in-capital (Schedule XI)	2,028	(78,720)
215	Retained earnings / Accumulated other comprehensive income /(loss) (Schedule XI)	-	-
216	Unappropriated retained earnings (Schedule XI)	2,595	2,595
	Total Proprietary Capital	4,624	(76,124)
 <u>LONG-TERM DEBT</u>			
223	Advances from associate companies (Schedule XII)	116,102	56,448
224	Other long-term debt (Schedule XII)	-	-
225	Unamortized premium on long-term debt	-	-
226	Unamortized discount on long-term debt-debit	-	-
	Total Long-term Debt	116,102	56,448
 <u>CURRENT AND ACCRUED LIABILITIES</u>			
231	Notes payable	-	-
232	Accounts payable	129,962	166,272
233	Notes payable to associate companies (Schedule XIII)	2,224,475	2,356,670
234	Accounts payable to associate companies (Schedule XIII)	366,631	818,107
236	Taxes accrued	129,001	-
237	Interest accrued	663	675
238	Dividends declared	-	-
241	Tax collections payable	-	-
242	Miscellaneous current and accrued liabilities (Schedule XIII)	81,708	68,563
	Total Current and Accrued Liabilities	2,932,440	3,410,287
 <u>DEFERRED CREDITS</u>			
253	Other deferred credits	475,635	447,821
255	Accumulated deferred investment tax credit	-	-

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Total Deferred Credits	475,635	447,821
Accumulated deferred income taxes	-	-
<b>TOTAL LIABILITIES AND PROPRIETARY CAPITAL</b>	<b>\$ 3,528,801</b>	<b>\$ 3,838,432</b>

282

ANNUAL REPORT OF FIRSTENERGY SERVICE COMPANY (CONSOLIDATED)For the Year Ended December 31, 2004SCHEDULE II - SERVICE COMPANY PROPERTY

DESCRIPTION	BALANCE AT BEGINNING OF YEAR	ADDITIONS	RETIREMENTS		OTHER CHANGES 1/	BALANCE AT CLOSE OF YEAR
			OR SALES			
<u>SERVICE COMPANY PROPERTY</u>						
<u>Account</u>						
301	Organization	\$ 49	\$ -	\$ -	\$ -	\$ 49
303	Miscellaneous Intangible Plant	189,443	26,368	(18,513)	(101,081)	96,217
304	Land & Land Right	1,007	-	-	-	1,007
305	Structures And Improvements	65,204	701	-	-	65,905
306	Leasehold Improvements	-	-	-	-	-
307	Equipment 2/	41,459	2,482	(561)	(1,561)	41,819
308	Office Furniture And Equipment	124,240	17,999	(8,658)	(12,067)	121,514
309	Automobiles, Other Vehicles And Related Garage Equipment	-	-	-	-	-
310	Aircraft And Airport Equipment	-	-	-	-	-
311	Other Service Company Property	-	-	-	-	-

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Sub-Total	421,402	47,550	(27,732)	(114,709)	326,511
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107 Construction Work

10.25 Services Agreement dated December 10, 2012 between the Company and TFG Radiant (incorporated by reference to Exhibit 99.1 to our Current Report on Form 8-K filed December 14, 2012)

10.26 Stock Purchase Agreement, dated April 26, 2013, between the Company and Foo Joo Loong (filed as Exhibit 10.1 to our Registration Statement on Form S-3 filed July 1, 2013 (Reg. No. 333-189739))

10.27 Securities Purchase Agreement, dated June 17, 2013, between the Company and Seng Wei Seow (filed as Exhibit 10.2 to our Registration Statement on Form S-3 filed

July 1, 2013  
(Reg. No.  
333-189739))

10.28 Registration  
Rights  
Agreement  
dated June 17,  
2013 between  
the Company  
and Seng Wei  
Seow (filed as  
exhibit 10.2 to  
our Current  
Report on Form  
8-K filed  
June 21, 2013)

10.29 First  
Amendment  
dated August 7,  
2013 to  
Securities  
Purchase  
Agreement and  
Registration  
Rights  
Agreement  
(incorporated  
by reference to  
Exhibit 10.1 to  
our Current  
Report on Form  
8-K filed on  
August 7,  
2013)

10.30 Second  
Amendment  
dated  
August 13,  
2013 to  
Securities  
Purchase  
Agreement  
(incorporated  
by reference to  
Exhibit 10.1 to  
our Current  
Report on Form  
8-K filed on  
August 15,

- 2013)
- 10.31 Framework Agreement, dated July 2, 2013, between the Company and the Government of the Municipal City of Suqian in Jiangsu Province, China (incorporated by reference to Exhibit 10.5 to our Registration Statement on Form S-3 filed August 29, 2013 (Reg. No. 333-190701), as amended)
- 10.32 Stock Purchase Agreement, dated October 28, 2013 between the Company and Ironridge Technology Co., a division of Ironridge Global IV, Ltd. (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed October 30, 2013)
- 10.33 Industrial Project Entry and Joint Venture Construction Contract by and between the

Registrant and  
Suqian  
Economic  
Development  
Company, Ltd.  
dated  
December 28,  
2013  
(incorporated  
by reference to  
Exhibit 10.33  
to our Annual  
Report on Form  
10-K for the  
year ended  
December 31,  
2013)

10.34 Stock Purchase  
Agreement,  
dated April 1,  
2014, between  
the Company  
and Ironridge  
Technology  
Co., a division  
of Ironridge  
Global IV, Ltd.  
(incorporated  
by reference to  
Exhibit 10.1 to  
our Current  
Report on Form  
8-K filed  
April 2, 2014)

10.35 Registration  
Rights  
Agreement,  
dated April 1,  
2014, between  
the Company  
and Ironridge  
Technology  
Co., a division  
of Ironridge  
Global IV, Ltd.  
(incorporated  
by reference to  
Exhibit 10.2 to  
our Current  
Report on Form

- 8-K filed  
April 2, 2014)
- 10.36 Voting Agreement, dated April 1, 2014, between TFG Radiant Investment Group Ltd. and Ironridge Technology Co., a division of Ironridge Global IV, Ltd. (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed April 2, 2014)
- 10.37 Executive Employment Agreement, dated April 4, 2014, between the Company and Kong Hian Lee (aka Victor Lee) (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed April 9, 2014)
- 10.38 Settlement Agreement and Release, dated April 15, 2014, between Jefferies LLC (formerly known as Jefferies & Company, Inc.) and the Company



(incorporated  
by reference to  
Exhibit 10.1 to  
our Current  
Report on Form  
8-K filed  
April 22, 2014)

**Table of Contents**

- 10.39 Stock Purchase Agreement, dated July 29, 2014, between the Company and SHTARD Enterprise Ltd. (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed July 31, 2014)
- 10.40 Stock Purchase Agreement, dated August 29, 2014, between the Company and Seng Wei Seow and TFG Radiant Investment Group Ltd. (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed September 4, 2014)
- 23.1 Consent of Hein & Associates LLP\*
- 23.2 Consent of Faegre Baker Daniels LLP (included in Exhibit 5.1)\*
- 24.1 Power of Attorney (included on the signature pages hereof)\*

\* Filed herewith.

CTR Portions of this exhibit have been omitted pursuant to a request for confidential treatment.

**Item 17. Undertakings.**

1. The undersigned registrant hereby undertakes 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 Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 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.
2. The undersigned registrant hereby undertakes that, for the purpose of determining any liability under the Securities Act of 1933, as amended, 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. The undersigned registrant hereby undertakes to remove from registration by means of a post-effective

amendment any of the securities being registered that remain unsold at the termination of the offering.

4. The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) 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.
  
5. The undersigned registrant hereby undertakes that, for the purposes of determining liability to any purchaser: If the registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. Provided, however, that no statement made in a

**Table of Contents**

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 first use, supersede or modify any 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 date of first use.

6. Insofar as indemnification for liabilities arising under the Securities Act of 1933, as amended, may be permitted to directors, officers and controlling persons of the undersigned registrant according to the foregoing provisions, or otherwise, the undersigned 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 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 Securities Act of 1933, as amended, and will be governed by the final adjudication of such issue.

Table of Contents

**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Thornton, State of Colorado on September 5, 2014.

Ascent Solar Technologies, Inc.

By: /s/ Victor Lee  
Lee Kong Hian (aka Victor Lee)

President and Chief Executive Officer

**Table of Contents****POWER OF ATTORNEY**

We, the undersigned directors and officers of Ascent Solar Technologies, Inc., do hereby constitute and appoint Victor Lee and William M. Gregorak or any of them, our true and lawful attorneys and agents, to do any and all acts and things in our name and behalf in our capacities as directors and officers and to execute any and all instruments for us and in our names in the capacities indicated below, which said attorneys and agents, or either of them, may deem necessary or advisable to enable said corporation to comply with the Securities Act of 1933, as amended, and any rules, regulations, and requirements of the Securities and Exchange Commission, in connection with this registration statement, including specifically, but without limitation, power and authority to sign for us or any of us in our names and in the capacities indicated below, any and all amendments (including post-effective amendments) to this registration statement, or any related registration statement that is to be effective upon filing pursuant to Rule 462(b) under the Securities Act of 1933, as amended; and we do hereby ratify and confirm all that the said attorneys and agents, or either of them, shall do or cause to be done by virtue hereof.

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

<b>Signature</b>	<b>Title</b>	<b>Date</b>
/s/ Victor Lee	President and Chief Executive Officer and	September 5, 2014
Lee Kong Hian (aka Victor Lee)	Director (Principal Executive Officer)	
/s/ William M. Gregorak	Vice President and Chief Financial Officer	September 5, 2014
William M. Gregorak	(Principal Financial and Accounting Officer)	
/s/ Amit Kumar	Chairman of the Board of Directors	September 5, 2014
Amit Kumar, Ph.D.		
/s/ Kim J. Huntley	Director	September 5, 2014
Kim J. Huntley		
/s/ G. Thomas Marsh	Director	September 5, 2014
G. Thomas Marsh		
/s/ Xu Biao	Director	September 5, 2014
Xu Biao (aka Winston Xu)		

**Table of Contents****EXHIBIT INDEX**

<b>Exhibit</b>	
<b>Number</b>	<b>Description</b>
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.2 to our Registration Statement on Form SB-2 filed January 23, 2006 (Reg. No. 333-131216))
3.2	Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to our Quarterly Report on Form 10-Q for the quarter ended September 30, 2011)
3.3	Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed February 11, 2014)
3.4	Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed September 2, 2014)
3.5	Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.2 to our Current Report on Form 8-K filed on February 17, 2009)
3.6	First Amendment to Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.3 to our Quarterly Report on Form 10-Q for the quarter ended September 30, 2009)
3.7	Second Amendment to Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed January 25, 2013)
4.1	Form of Common Stock Certificate (incorporated by reference to Exhibit 4.1 to our Registration Statement on Form SB-2 filed January 23, 2006 (Reg. No. 333-131216))
4.2	Certificate of Designations of Series A Preferred Stock (incorporated by reference to Exhibit 4.2 to our Registration Statement on Form S-3 filed July 1, 2013 (Reg. No. 333-189739))
4.3	Form of Warrant (incorporated by reference to Exhibit 4.3 to our Registration Statement on Form S-3 filed July 1, 2013 (Reg. No. 333-189739, as amended))
4.4	Certificate of Designations of Series B-1 and B-2 Preferred Stock (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed October 30, 2013)
4.5	Certificate of Designations of Series C Preferred Stock (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed April 2, 2014)
5.1	Opinion of Faegre Baker Daniels LLP*
10.1	Ascent Solar Technologies, Inc. Fourth Amended and Restated 2008 Restricted Stock Plan (including Form of Restricted Stock Award Agreement and Form of Restricted Stock Unit Agreement) (incorporated by reference to Annex B to our Definitive Proxy Statement filed on April 25, 2014)
10.2	Ascent Solar Technologies, Inc. Fourth Amended and Restated 2005 Stock Option Plan (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on June 17, 2010)
10.3	Securities Purchase Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.1 to our Registration Statement on Form SB-2

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filed on January 23, 2006 (Reg. No. 333-131216))<sup>CTR</sup>

- 10.4 Invention and Trade Secret Assignment Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.2 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))<sup>CTR</sup>
- 10.5 Patent Application Assignment Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.3 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))
- 10.6 License Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.4 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))<sup>CTR</sup>
- 10.7 Service Center Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc., as amended (incorporated by reference to Exhibit 10.6 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))



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**Table of Contents**

- 10.8 Administrative Services Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc., as amended (incorporated by reference to Exhibit 10.8 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))
- 10.9 Letter Agreement, dated November 23, 2005, among the Company, ITN Energy Systems, Inc. and the University of Delaware (incorporated by reference to Exhibit 10.16 to our Registration Statement on Form SB-2/A filed on May 26, 2006 (Reg. No. 333-131216))
- 10.10 License Agreement, dated November 21, 2006, between the Company and UD Technology Corporation (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on November 29, 2006)<sup>CTR</sup>
- 10.11 Novation Agreement, dated January 1, 2007, among the Company, ITN Energy Systems, Inc. and the United States Government (incorporated by reference to Exhibit 10.23 to our Annual Report on Form 10-KSB for the year ended December 31, 2006)
- 10.12 Construction Loan Agreement, dated February 8, 2008, between the Company and the Colorado Housing and Finance Authority (incorporated by reference to Exhibit 10.37 to our Annual Report on Form 10-K for the year ended December 31, 2007)
- 10.13 Promissory Note, dated February 8, 2008, issued to the Colorado Housing and Finance Authority (incorporated by reference to Exhibit 10.38 to our Annual Report on Form 10-K for the year ended December 31, 2007)
- 10.14 Loan Modification Agreement, dated January 29, 2009, between the Company and the Colorado Housing and Finance Authority (incorporated by reference to Exhibit 10.52 to our Annual Report on Form 10-K for the year ended December 31, 2008)
- 10.15 Cooperation Agreement, dated December 18, 2007, between the Company and Norsk Hydro Produksjon AS (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on December 19, 2007)
- 10.16 Equipment Purchase Agreement, dated January 7, 2010, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.46 to our Annual Report on Form 10-K for the year ended December 31, 2009)
- 10.17 Securities Purchase Agreement dated as of August 12, 2011 between TFG Radiant Investment Group Ltd. and the Company (incorporated by reference to Exhibit 99.1 to our Current Report on Form 8-K filed on August 15, 2011)
- 10.18 Stockholders Agreement dated as of August 12, 2011 between TFG Radiant Investment Group Ltd. and the Company (incorporated by reference to Exhibit 99.2 to our Current Report on Form 8-K filed on August 15, 2011)
- 10.19 Registration Rights Agreement dated as of August 12, 2011 between TFG Radiant Investment Group Ltd. and the Company (incorporated by reference to Exhibit 99.3 to our Current Report on Form 8-K filed on August 15, 2011)
- 10.20 Voting Agreement dated as of August 12, 2011 between TFG Radiant Investment Group Ltd. and Norsk Hydro Produksjon AS (incorporated by reference to Exhibit 99.4 to our Current Report on Form 8-K filed on August 15, 2011)
- 10.21 Joint Development Agreement dated as of August 12, 2011 between TFG Radiant New-Energy Group Ltd. and the Company (incorporated by reference to Exhibit 10.5 to our Quarterly Report on Form 10-Q for the

quarter ended September 30, 2011)<sup>CTR</sup>

- 10.22 At the Market Offering Sales Agreement dated as of January 5, 2012 between JonesTrading Institutional Services LLC and the Company (incorporated by reference to Exhibit 99.1 to our Current Report on Form 8-K filed on January 5, 2012)
- 10.23 Amended and Restated Stockholders Agreement dated as of December 30, 2011 between TFG Radiant Investment Group Ltd. and the Company (incorporated by reference to Exhibit 99.2 to our Current Report on Form 8-K filed on January 5, 2012)
- 10.24 Amended and Restated Registration Rights Agreement dated as of December 30, 2011 between TFG Radiant Investment Group Ltd. and the Company (incorporated by reference to Exhibit 99.3 to our Current Report on Form 8-K filed on January 5, 2012)

**Table of Contents**

- 10.25 Services Agreement dated December 10, 2012 between the Company and TFG Radiant (incorporated by reference to Exhibit 99.1 to our Current Report on Form 8-K filed December 14, 2012)
- 10.26 Stock Purchase Agreement, dated April 26, 2013, between the Company and Foo Joo Loong (filed as Exhibit 10.1 to our Registration Statement on Form S-3 filed July 1, 2013 (Reg. No. 333-189739))
- 10.27 Securities Purchase Agreement, dated June 17, 2013, between the Company and Seng Wei Seow (filed as Exhibit 10.2 to our Registration Statement on Form S-3 filed July 1, 2013 (Reg. No. 333-189739))
- 10.28 Registration Rights Agreement dated June 17, 2013 between the Company and Seng Wei Seow (filed as exhibit 10.2 to our Current Report on Form 8-K filed June 21, 2013)
- 10.29 First Amendment dated August 7, 2013 to Securities Purchase Agreement and Registration Rights Agreement (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on August 7, 2013)
- 10.30 Second Amendment dated August 13, 2013 to Securities Purchase Agreement (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on August 15, 2013)
- 10.31 Framework Agreement, dated July 2, 2013, between the Company and the Government of the Municipal City of Suqian in Jiangsu Province, China (incorporated by reference to Exhibit 10.5 to our Registration Statement on Form S-3 filed August 29, 2013 (Reg. No. 333-190701), as amended)
- 10.32 Stock Purchase Agreement, dated October 28, 2013 between the Company and Ironridge Technology Co., a division of Ironridge Global IV, Ltd. (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed October 30, 2013)
- 10.33 Industrial Project Entry and Joint Venture Construction Contract by and between the Registrant and Suqian Economic Development Company, Ltd. dated December 28, 2013 (incorporated by reference to Exhibit 10.33 to our Annual Report on Form 10-K for the year ended December 31, 2013)
- 10.34 Stock Purchase Agreement, dated April 1, 2014, between the Company and Ironridge Technology Co., a division of Ironridge Global IV, Ltd. (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed April 2, 2014)
- 10.35 Registration Rights Agreement, dated April 1, 2014, between the Company and Ironridge Technology Co., a division of Ironridge Global IV, Ltd. (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed April 2, 2014)
- 10.36 Voting Agreement, dated April 1, 2014, between TFG Radiant Investment Group Ltd. and Ironridge Technology Co., a division of Ironridge Global IV, Ltd. (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed April 2, 2014)
- 10.37 Executive Employment Agreement, dated April 4, 2014, between the Company and Kong Hian Lee (aka Victor Lee) (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed April 9, 2014)
- 10.38 Settlement Agreement and Release, dated April 15, 2014, between Jefferies LLC (formerly known as Jefferies & Company, Inc.) and the Company (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed April 22, 2014)
- 10.39 Stock Purchase Agreement, dated July 29, 2014, between the Company and SHTARD Enterprise Ltd. (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed July 31, 2014)
- 10.40

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Stock Purchase Agreement, dated August 29, 2014, between the Company and Seng Wei Seow and TFG Radiant Investment Group Ltd. (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed September 4, 2014)

- 23.1 Consent of Hein & Associates LLP\*
- 23.2 Consent of Faegre Baker Daniels LLP (included in Exhibit 5.1)\*
- 24.1 Power of Attorney (included on the signature pages hereof)\*

\* Filed herewith.

<sup>CTR</sup> Portions of this exhibit have been omitted pursuant to a request for confidential treatment.