

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). <p style="text-align: center;">▶ Complete all entries in accordance with the instructions to the Form 5500.</p>	OMB Nos. 1210-0110 1210-0089 <div style="text-align: center; font-size: 1.5em; font-weight: bold;">2018</div> This Form is Open to Public Inspection
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Part I	Annual Report Identification Information		
For calendar plan year 2018 or fiscal plan year beginning <u>01/01/2018</u> and ending <u>12/31/2018</u>			
A	This return/report is for:	☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)	
	☒ a single-employer plan	☐ a DFE (specify) ____	
B	This return/report is:	☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)	
C	If the plan is a collectively-bargained plan, check here. ▶ ☐		
D	Check box if filing under:	☒ Form 5558 ☐ automatic extension ☒ the DFVC program	
	☐ special extension (enter description)		

Part II	Basic Plan Information —enter all requested information		
1a	Name of plan <u>ADVANCED ENERGY INDUSTRIES, INC. 401(K) PROFIT SHA</u>	1b	Three-digit plan number (PN) ▶ <u>001</u>
		1c	Effective date of plan <u>02/01/1984</u>
2a	Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>ADVANCED ENERGY INDUSTRIES, INC.</u> <div style="display: flex; justify-content: space-between;"><div><u>1625 SHARP POINT DR</u> <u>FORT COLLINS, CO 80525</u></div><div><u>1625 SHARP POINT DR</u> <u>FORT COLLINS, CO 80525</u></div></div>	2b	Employer Identification Number (EIN) <u>84-0846841</u>
		2c	Plan Sponsor's telephone number <u>970-407-6711</u>
		2d	Business code (see instructions) <u>334410</u>

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	11/19/2019	MARCI FOUTS
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	Filed with authorized/valid electronic signature.	11/19/2019	MARCI FOUTS
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2018)
v. 171027

3a Plan administrator's name and address ☒ Same as Plan Sponsor	3b Administrator's EIN 3c Administrator's telephone number <div style="background-color: #cccccc; height: 40px; width: 100%;"></div>
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name	4b EIN 4d PN
5 Total number of participants at the beginning of the plan year	5 1349
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	6a(1) 569 6a(2) 491 6b 17 6c 288 6d 796 6e 7 6f 803 6g 803 6h 14
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 2F 2G 2J 2K 2T 3D 3H b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:	
9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor

10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

- (1)** ☒ **R** (Retirement Plan Information)
- (2)** ☐ **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3)** ☐ **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary

b General Schedules

- (1)** ☒ **H** (Financial Information)
- (2)** ☐ **I** (Financial Information – Small Plan)
- (3)** ☐ **A** (Insurance Information)
- (4)** ☒ **C** (Service Provider Information)
- (5)** ☒ **D** (DFE/Participating Plan Information)
- (6)** ☐ **G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2018 Form M-1 annual report. If the plan was not required to file the 2018 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

<div>SCHEDULE C</div> <div>(Form 5500)</div> <div>Department of the Treasury Internal Revenue Service</div> <div>Department of Labor Employee Benefits Security Administration</div> <div>Pension Benefit Guaranty Corporation</div>	<div>Service Provider Information</div> <div>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).</div> <div>▶ File as an attachment to Form 5500.</div>	OMB No. 1210-0110
		2018
		This Form is Open to Public Inspection.

For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018		
A Name of plan ADVANCED ENERGY INDUSTRIES, INC. 401(K) PROFIT SHA	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 ADVANCED ENERGY INDUSTRIES, INC.	D Employer Identification Number (EIN) 84-0846841	

Part I	Service Provider Information (see instructions)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions)..... ☒ Yes ☐ No

b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
TRANSAMERICA RETIREMENT SOLUTIONS
13-3689044

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
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2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

TRANSAMERICA RETIREMENT SOLUTIONS

13-3689044

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
12 15 28 37 38 50 54 59 61 62 63 64 65	RECORDKEEPER	137941	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

(a) Enter name and EIN or address (see instructions)

MMC SECURITIES LLC

PO BOX 27449
NEW YORK, NY 10087

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
16 53	BROKER	0	Yes ☒ No ☐	Yes ☐ No ☒	24913	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

FIRST WESTERN TRUST

27-0083757

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
16 53	INVESTMENT ADVISOR	11250	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

NATIONAL FINANCIAL SERVICES

04-3523567

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
33 71	SECURITIES BROKER	0	Yes ☒ No ☐	Yes ☐ No ☒	0	Yes ☒ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
MMC SECURITIES LLC	16 53	24913
(d) Enter name and EIN (address) of source of indirect compensation		(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.
TRANSAMERICA RETIREMENT SOL PO BOX 27449 NEW YORK, NY 10087 13-3689044	COMMISSIONS	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
TRANSAMERICA RETIREMENT SOLUTIONS	12 15 28 37 38 50 54 59 61 62 63 64 65	0
(d) Enter name and EIN (address) of source of indirect compensation		(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.
BLACKROCK 40 EAST 52ND ST NEW YORK, NY 10022	REVENUE SHARING SEE ATTACHMENT TO LINE 2(H)	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
TRANSAMERICA RETIREMENT SOLUTIONS	12 15 28 37 38 50 54 59 61 62 63 64 65	0
(d) Enter name and EIN (address) of source of indirect compensation		(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.
DODGE & COX 555 CALIFORNIA STREET 40TH FLOOR SAN FRANCISCO, CA 94104	REVENUE SHARING SEE ATTACHMENT TO LINE 2(H)	

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
TRANSAMERICA RETIREMENT SOLUTIONS	12 15 28 37 38 50 54 59 61 62 63 64 65	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
T ROWE PRICE 100 EAST PRATT STREET BALTIMORE, MD 21202	REVENUE SHARING SEE ATTACHMENT TO LINE 2(H)	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
TRANSAMERICA RETIREMENT SOLUTIONS	12 15 28 37 38 50 54 59 61 62 63 64 65	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
TRANSAMERICA PO BOX 9012 CLEARWATER, FL 33758	REVENUE SHARING SEE ATTACHMENT TO LINE 2(H)	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
TRANSAMERICA RETIREMENT SOLUTIONS	12 15 28 37 38 50 54 59 61 62 63 64 65	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
WILLIAM BLAIR 222 WEST ADAMS STREET 12TH FLOOR CHICAGO, IL 60606	REVENUE SHARING SEE ATTACHMENT TO LINE 2(H)	

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
NATIONAL FINANCIAL SERVICES	33 71	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
BLACKROCK 40 EAST 52ND ST NEW YORK, NY 10022	REVENUE SHARING SEE ATTACHMENT TO LINE 2(H)	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
NATIONAL FINANCIAL SERVICES	33 71	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
DODGE & COX 555 CALIFORNIA STREET 40TH FLOOR SAN FRANCISCO, CA 94104	REVENUE SHARING SEE ATTACHMENT TO LINE 2(H)	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
NATIONAL FINANCIAL SERVICES	33 71	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
T ROWE PRICE 100 EAST PRATT STREET BALTIMORE, MD 21202	REVENUE SHARING SEE ATTACHMENT TO LINE 2(H)	

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
NATIONAL FINANCIAL SERVICES	33 71	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
TRANSAMERICA PO BOX 9012 CLEARWATER, FL 33758	REVENUE SHARING SEE ATTACHMENT TO LINE 2(H)	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
NATIONAL FINANCIAL SERVICES	33 71	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
WILLIAM BLAIR 222 WEST ADAMS STREET 12TH FLOOR CHICAGO, IL 60606	REVENUE SHARING SEE ATTACHMENT TO LINE 2(H)	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	EKS&H LLLP	b EIN:	46-1497033
c Position:	ACCOUNTANT		
d Address:	1321 OAKRIDGE DRIVE FORT COLLINS, CO 80525	e Telephone:	970-282-5400

Explanation: INDEPENDENCE ISSUE.

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

<div>SCHEDULE D</div> <div>(Form 5500)</div> <div>Department of the Treasury Internal Revenue Service</div> <div>Department of Labor Employee Benefits Security Administration</div>		<div>DFE/Participating Plan Information</div> <div>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).</div> <div>▶ File as an attachment to Form 5500.</div>		<div>OMB No. 1210-0110</div> <div>2018</div> <div>This Form is Open to Public Inspection.</div>	
For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018					
A Name of plan ADVANCED ENERGY INDUSTRIES, INC. 401(K) PROFIT SHA				B Three-digit plan number (PN) ▶ 001	
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 ADVANCED ENERGY INDUSTRIES, INC.				D Employer Identification Number (EIN) 84-0846841	
Part I Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)					
a Name of MTIA, CCT, PSA, or 103-12 IE: TRANSAMERICA COLLECTIVE TRUST FUNDS					
b Name of sponsor of entity listed in (a): TRANSAMERICA RETIREMENT SOLUTIONS CORPORATION					
c EIN-PN 04-6784256-001		d Entity code C		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 3982956	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	
a Name of MTIA, CCT, PSA, or 103-12 IE:					
b Name of sponsor of entity listed in (a):					
c EIN-PN		d Entity code		e Dollar value of interest in MTIA, CCT	

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)

Part II Information on Participating Plans (to be completed by DFEs)

(Complete as many entries as needed to report all participating plans)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	<small>OMB No. 1210-0110</small> 2018 This Form is Open to Public Inspection
For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018		
A Name of plan ADVANCED ENERGY INDUSTRIES, INC. 401(K) PROFIT SHA	B Three-digit plan number (PN) ►	001
C Plan sponsor's name as shown on line 2a of Form 5500 ADVANCED ENERGY INDUSTRIES, INC.	D Employer Identification Number (EIN) 84-0846841	

Part I Asset and Liability Statement			
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.			
Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)	56328	81438
(2) Participant contributions	1b(2)		
(3) Other.....	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)	24751	72186
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other.....	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common.....	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property).....	1c(6)		
(7) Loans (other than to participants)	1c(7)		
(8) Participant loans.....	1c(8)	837959	835493
(9) Value of interest in common/collective trusts	1c(9)	3754016	3982956
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts	1c(11)		
(12) Value of interest in 103-12 investment entities.....	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	75857017	73223917
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
(15) Other	1c(15)		

1d Employer-related investments:

		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)		
(2) Employer real property	1d(2)		
e Buildings and other property used in plan operation	1e		
f Total assets (add all amounts in lines 1a through 1e)	1f	80530071	78195990

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j	1714	
k Total liabilities (add all amounts in lines 1g through 1j)	1k	1714	

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	80528357	78195990
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Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income

		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	1549793	
(B) Participants	2a(1)(B)	4762117	
(C) Others (including rollovers)	2a(1)(C)	162677	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		6474587
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	156	
(B) U.S. Government securities	2b(1)(B)		
(C) Corporate debt instruments	2b(1)(C)		
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)	37063	
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		37219
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	1347631	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		1347631
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		68870
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds).....	2b(10)		-5630099
c Other income.....	2c		
d Total income. Add all income amounts in column (b) and enter total	2d		2298208

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	4472382	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3).....	2e(4)		4472382
f Corrective distributions (see instructions)	2f		9003
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses: (1) Professional fees.....	2i(1)	11250	
(2) Contract administrator fees.....	2i(2)		
(3) Investment advisory and management fees.....	2i(3)		
(4) Other	2i(4)	137940	
(5) Total administrative expenses. Add lines 2i(1) through (4).....	2i(5)		149190
j Total expenses. Add all expense amounts in column (b) and enter total	2j		4630575

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		-2332367
l Transfers of assets:			
(1) To this plan.....	2l(1)		
(2) From this plan.....	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☐ Unqualified (2) ☐ Qualified (3) ☒ Disclaimer (4) ☐ Adverse

b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)?

☒ Yes ☐ No

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: BROCK AND COMPANY, CPAS, P.C.

(2) EIN: 84-0930288

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.).....

b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)

	Yes	No	Amount
4a		X	
4b		X	

	Yes	No	Amount
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		X	
4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.).....		X	
4d		X	
e Was this plan covered by a fidelity bond?	X		500000
4e	X		500000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?.....		X	
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?.....		X	
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
4i	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.)		X	
4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X	
4k		X	
l Has the plan failed to provide any benefit when due under the plan?.....		X	
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		X	
4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.		X	
4n		X	

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year?..... ☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c If the plan is a defined benefit plan, is it covered under the PBGC insurance program (See ERISA section 4021.)? ☐ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____. (See instructions.)

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110 2018 This Form is Open to Public Inspection.
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For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018

A Name of plan <u>ADVANCED ENERGY INDUSTRIES, INC. 401(K) PROFIT SHA</u>	B Three-digit plan number (PN) ▶ <u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>ADVANCED ENERGY INDUSTRIES, INC.</u>	D Employer Identification Number (EIN) <u>84-0846841</u>

Part I	Distributions
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All references to distributions relate only to payments of benefits during the plan year.

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions	1	<u>0</u>
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): <u>13-3689044</u>		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year	3	<u>405</u>

Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)
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4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)?	☐ Yes	☒ No	☐ N/A
If the plan is a defined benefit plan, go to line 8.			
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.			
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)	6a		
b Enter the amount contributed by the employer to the plan for this plan year	6b		
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount)	6c		
If you completed line 6c, skip lines 8 and 9.			
7 Will the minimum funding amount reported on line 6c be met by the funding deadline?	☐ Yes	☐ No	☐ N/A
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change?	☐ Yes	☒ No	☐ N/A

Part III	Amendments
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9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box.....	☐ Increase	☐ Decrease	☐ Both	☐ No
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Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.
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10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?	☐ Yes	☐ No
11 a Does the ESOP hold any preferred stock?	☐ Yes	☐ No
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.)	☐ Yes	☐ No
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?	☐ Yes	☐ No

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Schedule R (Form 5500) 2018
v. 171027

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that contributed more than 5% of total contributions to the plan during the plan year (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

- 14** Enter the number of participants on whose behalf no contributions were made by an employer as an employer of the participant for:

a The current year

b The plan year immediately preceding the current plan year

c The second preceding plan year

14a**14b****14c**

- 15** Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year

b The corresponding number for the second preceding plan year

15a**15b**

- 16** Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year

b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers

16a**16b**

- 17** If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment. ☐

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

- 18** If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

- 19** If the total number of participants is 1,000 or more, complete lines (a) through (c)

- a** Enter the percentage of plan assets held as:

Stock: _____ % Investment-Grade Debt: _____ % High-Yield Debt: _____ % Real Estate: _____ % Other: _____ %

- b** Provide the average duration of the combined investment-grade and high-yield debt:

☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more

- c** What duration measure was used to calculate line 19(b)?

☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify):



Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

**Independent Auditor's Report and
Financial Statements**

December 31, 2018 and 2017

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

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Independent Auditor's Report

To the Plan Administrator of the
Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan:

Report on the Financial Statements

We were engaged to audit the accompanying financial statements of the Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan (the "Plan"), which comprise the statement of net assets available for benefits as of December 31, 2018, and the related statement of changes in net assets available for benefits for the year then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on conducting the audit in accordance with auditing standards generally accepted in the United States of America. Because of the matter described in the Basis for Disclaimer of Opinion paragraph, however, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion.

Basis for Disclaimer of Opinion

As permitted by 29 CFR 2520.103-8 of the Department of Labor's ("DOL") Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974, the Plan Administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information summarized in Note 4, which was certified by State Street Bank and Trust Company, the trustee of the Plan, except for comparing such information with the related information included in the 2018 financial statements. We have been informed by the Plan Administrator that the trustee holds the Plan's investment assets and executes investment transactions. The Plan Administrator has obtained a certification from the trustee as of and for the year ended December 31, 2018, that the information provided to the Plan Administrator by the trustee is complete and accurate.

Disclaimer of Opinion

Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion on the 2018 financial statements. Accordingly, we do not express an opinion on the 2018 financial statements.

Other Matter - Supplemental Schedule

The supplemental schedule, Schedule H, Line 4i: Schedule of Assets (Held at End of Year), as of December 31, 2018, is required by the DOL's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 and is presented for the purpose of additional analysis and is not a required part of the financial statements. Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we do not express an opinion on this supplemental schedule.

Other Matter - 2017 Financial Statements

The financial statements of the Plan as of December 31, 2017, were audited by predecessor auditors. As permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 ("ERISA"), the Plan Administrator instructed the predecessor auditors not to perform and they did not perform, any auditing procedures with respect to the information certified by the trustee. Their report, dated August 31, 2018, indicated that (a) because of the significance of the information that they did not audit, they were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion and accordingly, they did not express an opinion on the financial statements and (b) the form and content of the information included in the financial statements other than that derived from the information certified by the trustee, were presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

Report on Form and Content in Compliance With DOL Rules and Regulations 2018

The form and content of the information included in the 2018 financial statements and supplemental schedule, other than that derived from the information certified by the trustee, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the DOL's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974.



Certified Public Accountants

Littleton, Colorado
November 15, 2019

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Statements of Net Assets Available for Benefits

December 31,	2018	2017
ASSETS		
Investments, at fair value (Notes 2 and 3):		
Mutual funds	\$ 73,223,917	\$ 75,857,017
Common collective trust	3,982,956	3,754,016
Interest bearing cash	72,186	24,751
Total investments	77,279,059	79,635,784
Receivables:		
Employer contributions	81,438	56,328
Notes receivable from participants	835,493	837,959
Total receivables	916,931	894,287
Total assets	78,195,990	80,530,071
LIABILITIES		
Corrective distributions payable	-	1,714
Net assets available for benefits	\$ 78,195,990	\$ 80,528,357

The accompanying Notes are an integral part of these financial statements.

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Statement of Changes in Net Assets Available for Benefits

Year ended December 31,

2018

Additions to (deductions from) net assets attributed to:

Investment income (loss) (Note 2):

Net appreciation (depreciation) in fair value of investments	\$ (5,561,229)
Interest and dividends	<u>1,347,787</u>

Total investment income (loss)	<u>(4,213,442)</u>
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Interest income on notes receivable from participants	<u>37,063</u>
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Contributions:

Employer	1,549,793
Participant	4,762,117
Rollovers	<u>162,677</u>

Total contributions	6,474,587
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Less: excess contributions	<u>(9,003)</u>
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Net contributions	<u>6,465,584</u>
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Payments:

Distributions to participants	(4,472,382)
Administrative expenses	<u>(149,190)</u>

Total payments	<u>(4,621,572)</u>
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Net increase (decrease) in net assets available for benefits	(2,332,367)
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Net assets available for benefits, beginning of year	<u>80,528,357</u>
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Net assets available for benefits, end of year	<u>\$ 78,195,990</u>
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The accompanying Notes are an integral part of these financial statements.

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Notes to Financial Statements

December 31, 2018 and 2017

Note 1 – Description of the Plan

The Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan (the "Plan") was established on February 1, 1984. The following is a brief general description of the Plan. Participants and all others should refer to the Plan document for a more complete description of the Plan's provisions.

General. The Plan is a defined contribution plan established by Advanced Energy Industries, Inc. (the "Company," "Plan Administrator" or "Plan Sponsor") under the provisions of 401(a) of the Internal Revenue Code ("IRC"). The Plan is generally available to all the employees of the Company and Related Participating Employers (collectively, the "Employer"). The Plan's Related Participating Employers are UltraVolt Inc.; Sekindenko, Inc.; and PV Powered Inc. In order to be eligible to participate in the Plan an employee must be age 18 years or older. Employees may enter the Plan the first of the month coincident with or after meeting the Plan's eligibility requirements. The Plan excludes the following types of employees; union employees, nonresident aliens with no U.S. source income, leased employees, employees of any controlled group employer that does not affirmatively adopt the Plan, independent contractors, summer interns, and IRC section 410(b)(6)(c) transaction employees during the transition period. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended ("ERISA"). Benefits under the Plan are not guaranteed by the Pension Benefit Guaranty Corporation.

Contributions. The following types of contributions are allowable under the Plan:

- Salary Deferral Contributions – Participants may contribute a percentage up to 85% of their pre-tax compensation, as defined in the Plan document, subject to limitations. A participant's total salary deferral contribution cannot exceed \$18,500 (\$24,500 if age 50 or older) in 2018.
- Discretionary Employer Matching Contributions – The Employer may make a matching contribution each Plan year to eligible participants. During 2018, the Employer made a discretionary matching contribution equal to 50% of a participant's salary deferral contribution up to 6% of compensation.
- Discretionary Employer Nonelective Contributions – The Employer may make a discretionary nonelective contribution to eligible participants that are employed by the Employer on the last day of the Plan year, with certain exceptions. Such contribution is allocated in the proportion that each participant's compensations bears to the compensation of all participants. During 2018, the Employer did not make a discretionary nonelective contribution.
- Rollover Contributions - Amounts distributed to participants from other qualified employee benefit plans may be rolled into the Plan.

All contributions are allocated to the Plan's investment funds at the direction of the participants.

The total annual additions to a participant's account may not exceed the lesser of \$55,000 in calendar year 2018, or 100% of the participant's compensation, as defined.

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Notes to Financial Statements

December 31, 2018 and 2017

Note 1 – Description of the Plan (continued)

Participant Accounts. Each participant's account is credited with the participant's contributions (salary deferral and rollovers, if any) and an allocation of (a) the Employer's discretionary contributions (matching and nonelective) , (b) fund earnings or losses, and (c) administrative expenses. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account balance.

Vesting. Participants are vested immediately in their salary deferral contributions, rollover contributions, and related earnings thereon. Vesting in discretionary Employer contributions occur according to the following schedule:

Years of Service	Vested Percentage
Less than 1 year	0%
1	25%
2	50%
3	75%
4 or more years	100%

Furthermore, employed participants become 100% vested in their Employer contribution portion of their accounts upon the following events:

- Participant attains normal retirement age;
- Participant's death;
- Participant becomes disabled as defined under the Plan; or
- Termination or partial termination of the Plan.

Forfeitures and Unallocated Asset Account. When certain terminations of participation in the Plan occur, the non-vested portion represents a forfeiture. Forfeitures are used to reinstate participant's accounts, used to pay administrative expenses of the Plan, or used to reduce discretionary Employer contributions. During 2018, forfeitures of \$11,250 were used to pay administrative expenses of the Plan. Unutilized forfeited non-vested accounts at December 31, 2018 and 2017 totaled \$69,947 and \$24,095, respectively.

The Plan also maintains an Advanced Employer Account which is an unallocated asset account for the deposit of excess Employer contributions. The balance in the Advanced Employer Account was \$2,239 and \$656 as of December 31, 2018 and 2017, respectively.

Investments. Participants may direct their investments into various mutual funds and a common collective trust fund.

Notes Receivable from Participants. Participants may borrow from their fund accounts a minimum of \$1,000. The maximum loan is the lesser of (i) \$50,000 minus the highest loan balance in the previous 12-month period, or (ii) 50% of their vested account balance. Loan terms range up to a maximum of 5 years (a longer term, up to 10 years, is available if used for the purchase of a principal residence). The loans are secured by the balance in the participant's account and bear interest based on the Prime Rate plus 1% at the date the loan is granted. Principal and interest payments are generally paid ratably through payroll deductions.

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Notes to Financial Statements

December 31, 2018 and 2017

Note 1 – Description of the Plan (continued)

Payment of Benefits. Benefits to participants or beneficiaries generally are payable as a lump sum, installments, or partial payments equal to the value of their vested account balance upon retirement, disability, death or termination of the participant. Participants may also elect to rollover their account balance into another qualified retirement plan or Individual Retirement Account. Additionally, participants may request in-service withdrawals of their rollover contributions account, upon attainment of age 59½, and in the event of a financial hardship, as defined in the Plan document, if certain criteria are met.

Note 2 – Summary of Significant Accounting Policies

Basis of Accounting. The financial statements of the Plan are prepared using the accrual method of accounting in accordance with accounting principles generally accepted in the United States of America.

Use of Estimates. The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires the Plan's management to use estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Investment Valuation and Income Recognition. The Plan's investments are stated at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Plan management determines the Plan's valuation policies utilizing information provided by the investment advisors and trustee. See Note 3 for a discussion of fair value measurements.

Purchases and sales of securities are recorded on a trade date basis. Interest is recorded when earned. Dividends are recorded on the ex-dividend date. Net appreciation (depreciation) includes the Plan's gains and losses on investments bought and sold as well as held during the year.

Notes Receivable from Participants. Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recorded on the accrual basis. Related fees are recorded as administrative expenses and are expensed when they are incurred. No allowance for credit losses has been recorded as of December 31, 2018 or 2017. Delinquent participant loans are reclassified as distributions based upon the terms of the Plan document.

Administrative Expenses. Certain expenses of maintaining the Plan are paid directly by the Company and are excluded from these financial statements. Fees related to the administration of notes receivable from participants are charged directly to the participant's account and are included in administrative expenses. Administrative expenses paid by the Plan also include fees paid for recordkeeping, consulting, investment advisory, investment management, distribution, and other fees. Certain investment related expenses are included in net appreciation (depreciation) in fair value of investments.

Benefit Payments. Benefits are recorded when paid.

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Notes to Financial Statements

December 31, 2018 and 2017

Note 3 – Fair Value Measurements

The Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") 820, *Fair Value Measurements and Disclosures*, provides the framework for measuring fair value. That framework provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (level 1 measurements) and the lowest priority to unobservable inputs (level 3 measurements). The three levels of the fair value hierarchy under FASB ASC 820 are described below:

- Level 1* Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.
- Level 2* Inputs to the valuation methodology include:
- Quoted prices for similar assets or liabilities in active markets;
 - Quoted prices for identical or similar assets or liabilities in inactive markets;
 - Inputs other than quoted prices that are observable for the asset or liability; and
 - Inputs that are derived principally from or corroborated by observable market data by correlation or other means.
- If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.
- Level 3* Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The asset's or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

There have been no changes in the methodologies used at December 31, 2018 and 2017. The following is a description of the valuation methodologies used for assets measured at fair value:

- Mutual funds are valued at the quoted net asset value ("NAV") of shares held by the Plan at year end.
- The common collective trust ("CCT") is valued at the NAV of units held by the Plan at year end. The NAV, as provided by the trustee, is used as a practical expedient to estimate fair value. The NAV is based on the fair value of the underlying investments held by the fund less its liabilities. This practical expedient is not used when it is determined to be probable that the fund will sell the investment for an amount different than the reported NAV.
- Interest bearing cash is valued at amortized cost.

The methods described above may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, while the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Notes to Financial Statements

December 31, 2018 and 2017

Note 3 – Fair Value Measurements (continued)

The following tables set forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2018 and 2017:

Fair Value Measurements at December 31, 2018				
	Quoted Prices in Active Markets for Identical Assets Level 1	Significant Other Observable Inputs Level 2	Significant Unobservable Inputs Level 3	Total
Mutual Funds	\$ 73,223,917	\$ -	\$ -	\$ 73,223,917
Interest Bearing Cash	72,186	-	-	72,186
Total Assets in Fair Value Hierarchy	<u>\$ 73,296,103</u>	<u>\$ -</u>	<u>\$ -</u>	73,296,103
Investments Measured at NAV				<u>3,982,956</u>
Total Assets at Fair Value				<u>\$ 77,279,059</u>

Fair Value Measurements at December 31, 2017				
	Quoted Prices in Active Markets for Identical Assets Level 1	Significant Other Observable Inputs Level 2	Significant Unobservable Inputs Level 3	Total
Mutual Funds	\$ 75,857,017	\$ -	\$ -	\$ 75,857,017
Interest Bearing Cash	24,751	-	-	24,751
Total Assets in Fair Value Hierarchy	<u>\$ 75,881,768</u>	<u>\$ -</u>	<u>\$ -</u>	75,881,768
Investments Measured at NAV				<u>3,754,016</u>
Total Assets at Fair Value				<u>\$ 79,635,784</u>

Changes in Fair Value Levels. The availability of observable market data is monitored to assess the appropriate classification of financial instruments within the fair value hierarchy. Changes in economic conditions or model-based valuation techniques may require the transfer of financial instruments from one fair value level to another. In such instances, the transfer is reported at the end of the reporting period.

The Company evaluated the significance of transfers between levels based upon the nature of the financial instrument and size of the transfer relative to total net assets available for benefits. For the year ended December 31, 2018, there were no significant transfers in or out of levels 1, 2 or 3.

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Notes to Financial Statements

December 31, 2018 and 2017

Note 3 – Fair Value Measurements (continued)

Investments in Certain Entities that Calculate NAV per Unit. The following table for December 31, 2018 and 2017, sets forth a summary of certain of the Plan's investments with a reported NAV:

Investment	Fair Value as of December 31,		Unfunded Commitments	Redemption Frequency	Redemption Notice Period & Other Redemption Restrictions
	2018	2017			
CCT (a)	\$ 3,982,956	\$ 3,754,016	None	Daily	(b)

- (a) The collective fund seeks to maintain safety of principal while obtaining a consistent, low volatility return superior to other high quality alternatives over a full interest rate cycle by investing mainly in Guaranteed Investment Contracts ("GICs"), Separate Account GICs, and Security Backed Investment Contracts.
- (b) Participants cannot transfer their Stable Pooled Fund balances to competing fixed income funds, such as money market funds, short-term bond funds, or brokerage windows. Balances transferred from the Stable Pooled Fund to non-competing funds cannot be transferred to competing fixed income funds for 90 days, but may be transferred back to the Stable Pooled Fund at any time.

Note 4 – Information Certified by the Trustee

The Plan Administrator has elected the method of annual reporting and compliance permitted by 29 CFR 2520.103-8 of the DOL's Rules and Regulations for Reporting and Disclosure under ERISA. Accordingly, the trustee of the Plan has certified that the following data included in the accompanying financial statements and supplemental schedule is complete and accurate:

- Investments, as shown in the Statement of Net Assets Available for Benefits as of December 31, 2018;
- Notes receivable from participants, as shown in the Statement of Net Assets Available for Benefits as of December 31, 2018;
- Investment amounts within the fair value tables as of December 31, 2018, as shown in Note 3;
- Investment income (loss), as shown in the Statement of Changes in Net Assets Available for Benefits for the year ended December 31, 2018;
- Interest income on notes receivable from participants, as shown in the Statement of Changes in Net Assets Available for Benefits for the year ended December 31, 2018;
- The information presented in the Schedule of Assets (Held at End of Year) as of December 31, 2018, as shown in the supplemental schedule.

The Plan's independent auditors did not perform auditing procedures with respect to this information except for comparing such information to the related information included in the financial statements and supplemental schedule.

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Notes to Financial Statements

December 31, 2018 and 2017

Note 5 – Plan Termination

Although it has not expressed any intent to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan, subject to the provisions of ERISA. In the event of Plan termination or partial termination, affected participants will become 100% vested in their accounts.

Note 6 – Tax Status

The Plan sponsor has adopted a Transamerica Retirement Solutions Corporation Volume Submitter Profit Sharing Plan ("volume submitter plan"). The volume submitter plan received a favorable opinion letter from the IRS on March 31, 2014, which stated that the volume submitter plan is qualified under the applicable sections of the Internal Revenue Code ("IRC"). Although the volume submitter plan and the Plan have been amended since receiving the IRS opinion letter, the Plan sponsor believes that the Plan is currently designed and being operated in compliance with the applicable requirements of the IRC. Therefore, the Plan sponsor believes that the Plan is qualified under Section 401(a) of the IRC and the related Trust is tax exempt as of December 31, 2018 and 2017. Therefore, no provision for income taxes has been included in the Plan's financial statements.

Accounting principles generally accepted in the United States of America require Plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan administrator has analyzed the tax positions taken by the Plan, and has concluded that as of December 31, 2018 and 2017, there are no uncertain positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

Note 7 – Party-In-Interest Transactions

The Company provides to the Plan certain accounting and administrative services for which no fees are charged.

Certain Plan investments are an interest bearing cash account offered by State Street Bank and Trust Company ("State Street") and a common collective trust and mutual fund offered by Transamerica. As State Street and Transamerica are the Plan's trustee and recordkeeper, respectively, these transactions represent party-in-interest transactions. Additionally, the Plan maintains notes receivable from participants. Fees paid for services rendered by parties-in-interest were based on customary and reasonable rates for such services.

Note 8 – Risks and Uncertainties

The Plan provides for various investment options in mutual funds and a common collective trust. Investment securities, in general, are exposed to various risks, such as significant world events, interest rate, credit, and overall market volatility risk. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts presented in the statements of net assets available for benefits.

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Notes to Financial Statements

December 31, 2018 and 2017

Note 8 – Risks and Uncertainties (continued)

Additionally, some investments held by the Plan are invested in the securities of foreign companies, which involve special risks and considerations not typically associated with investing in U.S. companies. These risks include devaluation of currencies, less reliable information about issuers, different securities transaction clearance and settlement practices, and possible adverse political and economic developments. Moreover, securities of many foreign companies and their markets may be less liquid and their prices more volatile than those of securities of comparable U.S. companies.

Note 9 – Subsequent Events

Management evaluates events occurring subsequent to the date of the financial statements in determining the accounting for and disclosure of transactions and events that affect the financial statements. Subsequent events have been evaluated through November 15, 2019, which is the date the financial statements were available to be issued.

Effective August 15, 2019, State Street Bank and Trust Company ("State Street") and Transamerica Retirement Solutions were removed as the Plan's trustee and record keeper, respectively, and Fidelity Management Trust Company ("Fidelity") was appointed. In connection with this change in the Plan's service providers, the Plan document was amended and restated, the Plan went through a blackout period, and the Plan's assets were transferred from State Street to Fidelity in the third quarter of 2019.

Effective August 15, 2019, the Trek Inc. 401(k) Profit Sharing Plan and Trust was merged into the Plan. Effective September 3, 2019, the Lumasense Technologies Holdings, Inc. 401(k) Plan was merged into the Plan. As a result of these Plan mergers, Plan assets increased by approximately \$22 million.

On September 10, 2019, the Company announced that it had completed the previously announced acquisition of Artesyn Embedded Technologies' Embedded Power business.

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Schedule H, Line 4i: Schedule of Assets (Held at End of Year)

EIN: 84-0846841

PN: 001

December 31,

2018

Identity of Issue Borrower, Lessor, or Similar Party	Description of Investment	Current Value
* State Street Bank and Trust Company	Interest Bearing Cash: Cash Reserve Account	\$ 72,186
* Transamerica Retirement Solutions Corporation	Common Collective Trust: TRS Stable Pooled Fund	3,982,956
	Mutual Funds:	
Dodge & Cox	Dodge & Cox Stock	6,640,320
PIMCO	PIMCO Total Return Instl	2,662,813
T. Rowe Price	T. Rowe Price Retirement Balanced	238,698
T. Rowe Price	T. Rowe Price Retirement 2020	2,277,037
T. Rowe Price	T. Rowe Price Retirement 2030	3,319,745
T. Rowe Price	T. Rowe Price Retirement 2040	2,350,995
T. Rowe Price	T. Rowe Price Retirement 2015	1,952,015
T. Rowe Price	T. Rowe Price Retirement 2025	4,078,755
T. Rowe Price	T. Rowe Price Retirement 2035	2,549,776
T. Rowe Price	T. Rowe Price Retirement 2045	1,967,498
T. Rowe Price	T. Rowe Price Retirement 2050	1,800,319
T. Rowe Price	T. Rowe Price Retirement 2055	252,919
Dimensional	DFA US Targeted Value I	3,209,973
Blackrock	BlackRock High Yield Bond Instl	2,312,874
Vanguard	Vanguard Total Bond Market Index Adm	1,538,340
Vanguard	Vanguard 500 Index Adm	7,802,591
Vanguard	Vanguard Growth Index Adm	6,185,865
* Transamerica	Transamerica International Equity I	6,180,569
T. Rowe Price	T. Rowe Price Retirement 2060	149,230
William Blair	William Blair Small-Mid Cap Growth I	3,551,824
T. Rowe Price	T. Rowe Price Blue Chip Growth I	12,201,761
	Total Mutual Funds	73,223,917
* Participants	Loans to Participants (interest rates ranging from 4.25% to 6.50%, various maturity dates)	835,493
	Total Assets (Held at End of Year)	\$ 78,114,552

* Represents a party-in-interest

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

Schedule H, Line 4i: Schedule of Assets (Held at End of Year)

EIN: 84-0846841

PN: 001

December 31,

2018

Identity of Issue Borrower, Lessor, or Similar Party	Description of Investment	Current Value
* State Street Bank and Trust Company	Interest Bearing Cash: Cash Reserve Account	\$ 72,186
* Transamerica Retirement Solutions Corporation	Common Collective Trust: TRS Stable Pooled Fund	3,982,956
	Mutual Funds:	
Dodge & Cox	Dodge & Cox Stock	6,640,320
PIMCO	PIMCO Total Return Instl	2,662,813
T. Rowe Price	T. Rowe Price Retirement Balanced	238,698
T. Rowe Price	T. Rowe Price Retirement 2020	2,277,037
T. Rowe Price	T. Rowe Price Retirement 2030	3,319,745
T. Rowe Price	T. Rowe Price Retirement 2040	2,350,995
T. Rowe Price	T. Rowe Price Retirement 2015	1,952,015
T. Rowe Price	T. Rowe Price Retirement 2025	4,078,755
T. Rowe Price	T. Rowe Price Retirement 2035	2,549,776
T. Rowe Price	T. Rowe Price Retirement 2045	1,967,498
T. Rowe Price	T. Rowe Price Retirement 2050	1,800,319
T. Rowe Price	T. Rowe Price Retirement 2055	252,919
Dimensional	DFA US Targeted Value I	3,209,973
Blackrock	BlackRock High Yield Bond Instl	2,312,874
Vanguard	Vanguard Total Bond Market Index Adm	1,538,340
Vanguard	Vanguard 500 Index Adm	7,802,591
Vanguard	Vanguard Growth Index Adm	6,185,865
* Transamerica	Transamerica International Equity I	6,180,569
T. Rowe Price	T. Rowe Price Retirement 2060	149,230
William Blair	William Blair Small-Mid Cap Growth I	3,551,824
T. Rowe Price	T. Rowe Price Blue Chip Growth I	12,201,761
	Total Mutual Funds	73,223,917
* Participants	Loans to Participants (interest rates ranging from 4.25% to 6.50%, various maturity dates)	835,493
	Total Assets (Held at End of Year)	\$ 78,114,552

* Represents a party-in-interest

Schedule C, Line 2(h) Formula Descriptions

Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan

EIN No.: 84-0846841, Plan No. 001

Plan Year Ending: 12/31/2018

Indirect Compensation in the form of revenue sharing was paid to the following Service Providers:

TRANSAMERICA RETIREMENT SOLUTIONS	13-3689044
NATIONAL FINANCIAL SERVICES	04-3523567

Revenue amounts are shown in annualized basis points of plan assets invested in applicable fund

Fund Family	Fund Name	Start Date	End Date	Revenue to Transamerica Retirement Solutions	Revenue to National Financial Services
BLACKROCK	BLACKROCK HIGH YIELD INSTL	1/1/2018	12/31/2018	14.618	0.383
DODGE & COX	DODGE & COX STOCK FUND	1/1/2018	12/31/2018	9.745	0.255
T ROWE PRICE	T ROWE PRICE RETIREMENT 2015	1/1/2018	12/31/2018	14.618	0.383
T ROWE PRICE	T ROWE PRICE RETIREMENT 2020	1/1/2018	12/31/2018	14.618	0.383
T ROWE PRICE	T ROWE PRICE RETIREMENT 2025	1/1/2018	12/31/2018	14.618	0.383
T ROWE PRICE	T ROWE PRICE RETIREMENT 2030	1/1/2018	12/31/2018	14.618	0.383
T ROWE PRICE	T ROWE PRICE RETIREMENT 2035	1/1/2018	12/31/2018	14.618	0.383
T ROWE PRICE	T ROWE PRICE RETIREMENT 2040	1/1/2018	12/31/2018	14.618	0.383
T ROWE PRICE	T ROWE PRICE RETIREMENT 2045	1/1/2018	12/31/2018	14.618	0.383
T ROWE PRICE	T ROWE PRICE RETIREMENT 2050	1/1/2018	12/31/2018	14.618	0.383
T ROWE PRICE	T ROWE PRICE RETIREMENT 2055	1/1/2018	12/31/2018	14.618	0.383
T ROWE PRICE	T. ROWE PRICE BALANCED	1/1/2018	12/31/2018	14.618	0.383
T ROWE PRICE	T. ROWE PRICE RETIREMENT 2060	1/1/2018	12/31/2018	14.618	0.383
TRANSAMERICA	TRANSAMERICA INTERNATIONAL EQUITY I	1/1/2018	12/31/2018	38.980	1.020
WILLIAM BLAIR	WILLIAM BLAIR SMALL-MID CAP GROWTH I	1/1/2018	12/31/2018	14.618	0.383