

TECOGEN INC.  
Form 10-Q  
November 13, 2018

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

FORM 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended September 30, 2018

or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Commission file number 001-36103

TECOGEN INC.

(Exact name of Registrant as specified in its charter)

Delaware

04-3536131

(State or Other Jurisdiction of Incorporation or Organization) (IRS Employer Identification No.)

45 First Avenue

Waltham, Massachusetts

02451

(Address of Principal Executive Offices) (Zip Code)

Registrant's Telephone Number, Including Area Code: (781) 466-6402

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months, (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer", "accelerated filer", "smaller reporting company", and "emerging growth company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>	Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
						Emerging Growth company	<input checked="" type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes ☐ No ☒

Title of each class Outstanding, October 31, 2018

Common Stock, \$0.001 par value 24,819,646

TECOGEN INC.

QUARTERLY REPORT ON FORM 10-Q  
FOR THE PERIOD ENDED SEPTEMBER 30, 2018  
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References in this Form 10-Q to "we", "us", "our", the "Company" and "Tecogen" refers to Tecogen Inc. and its consolidated subsidiaries, unless otherwise noted.

## TECOGEN INC.

## PART I - FINANCIAL INFORMATION

## Item 1 - Financial Statements

## CONDENSED CONSOLIDATED BALANCE SHEETS

(unaudited)

	September 30, 2018	December 31, 2017
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$ 136,717	\$ 1,673,072
Accounts receivable, net	11,548,663	9,536,673
Unbilled revenue	4,441,565	3,963,133
Inventory, net	5,983,067	5,130,805
Due from related party	—	585,492
Prepaid and other current assets	815,269	771,526
Total current assets	22,925,281	21,660,701
Property, plant and equipment, net	11,107,509	12,265,711
Intangible assets, net	2,935,279	2,896,458
Goodwill	13,365,655	13,365,655
Other assets	427,810	482,551
<b>TOTAL ASSETS</b>	<b>\$ 50,761,534</b>	<b>\$ 50,671,076</b>
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
Current liabilities:		
Revolving line of credit, bank	\$ 1,708,888	\$ —
Accounts payable	5,716,426	5,095,285
Accrued expenses	2,196,921	1,416,976
Deferred revenue	1,718,376	1,293,638
Loan due to related party	—	850,000
Interest payable, related party	—	52,265
Total current liabilities	11,340,611	8,708,164
Long-term liabilities:		
Deferred revenue, net of current portion	343,031	538,100
Unfavorable contract liability, net	6,534,074	7,729,667
Total liabilities	18,217,716	16,975,931
Commitments and contingencies (Note 10)		
Stockholders' equity:		
Tecogen Inc. stockholders' equity:		
Common stock, \$0.001 par value; 100,000,000 shares authorized; 24,819,646 and 24,766,892 issued and outstanding at September 30, 2018 and December 31, 2017, respectively	24,819	24,767
Additional paid-in capital	56,371,583	56,176,330
Accumulated other comprehensive loss-investment securities	—	(165,317 )
Accumulated deficit	(24,298,191 )	(22,796,246 )
Total Tecogen Inc. stockholders' equity	32,098,211	33,239,534
Noncontrolling interest	445,607	455,611
Total stockholders' equity	32,543,818	33,695,145

TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$ 50,761,534	\$ 50,671,076
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The accompanying notes are an integral part of these consolidated financial statements.

## TECOGEN INC.

CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME  
(unaudited)

	Three Months Ended	
	September 30,	September 30,
	2018	2017
Revenues		
Products	\$2,765,094	\$ 2,425,616
Services	3,713,770	4,519,467
Energy production	1,459,820	1,556,115
Total revenues	7,938,684	8,501,198
Cost of sales		
Products	1,695,347	1,538,515
Services	2,517,210	2,981,454
Energy production	843,029	723,198
Total cost of sales	5,055,586	5,243,167
Gross profit	2,883,098	3,258,031
Operating expenses		
General and administrative	2,582,600	2,427,352
Selling	581,716	503,415
Research and development	281,094	241,725
Total operating expenses	3,445,410	3,172,492
Income (loss) from operations	(562,312 )	85,539
Other income (expense)		
Interest income and other expense, net	4,168	14,849
Interest expense	(33,380 )	(45,242 )
Unrealized gain on investment securities	19,681	—
Total other expense, net	(9,531 )	(30,393 )
Income (loss) before provision for state income taxes	(571,843 )	55,146
Provision for state income taxes	3,815	—
Consolidated net income (loss)	(575,658 )	55,146
Income attributable to the noncontrolling interest	(27,379 )	(27,935 )
Net income (loss) attributable to Tecogen Inc.	\$(603,037 )	27,211
Other comprehensive income - unrealized gain on securities		39,361
Comprehensive income		\$ 66,572
Net loss per share - basic and diluted	\$(0.02 )	\$ 0.00
Weighted average shares outstanding - basic	24,819,056	24,720,613
Weighted average shares outstanding - diluted	24,819,056	24,930,624

The accompanying notes are an integral part of these consolidated financial statements.

## TECOGEN INC.

CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS  
(unaudited)

	Nine Months Ended	
	September 30, 2018	September 30, 2017
Revenues		
Products	\$8,922,257	\$8,349,159
Services	12,894,439	12,259,037
Energy production	4,750,580	2,330,307
Total revenues	26,567,276	22,938,503
Cost of sales		
Products	5,596,272	5,261,245
Services	8,262,104	7,464,193
Energy production	2,828,405	1,053,741
Total cost of sales	16,686,781	13,779,179
Gross profit	9,880,495	9,159,324
Operating expenses		
General and administrative	8,122,856	7,042,500
Selling	1,892,229	1,558,378
Research and development	993,102	641,064
Total operating expenses	11,008,187	9,241,942
Loss from operations	(1,127,692 )	(82,618 )
Other income (expense)		
Interest and other income	7,926	21,033
Interest expense	(56,195 )	(115,026 )
Unrealized loss on investment securities	(59,042 )	—
Total other expense, net	(107,311 )	(93,993 )
Loss before provision for state income taxes	(1,235,003 )	(176,611 )
Provision for state income taxes	42,679	—
Consolidated net loss	(1,277,682 )	(176,611 )
Income attributable to the noncontrolling interest	(58,946 )	(44,933 )
Net loss attributable to Tecogen Inc.	\$(1,336,628)	(221,544 )
Other comprehensive loss - unrealized loss on securities		(184,998 )
Comprehensive loss		\$(406,542 )
Net loss per share - basic and diluted	\$(0.05 )	\$(0.01 )
Weighted average shares outstanding - basic and diluted	24,813,936	22,643,406

The accompanying notes are an integral part of these consolidated financial statements.

## TECOGEN INC.

## CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(unaudited)

	Nine Months Ended	
	September 30, 2018	September 30, 2017
<b>CASH FLOWS FROM OPERATING ACTIVITIES:</b>		
Consolidated net loss	\$(1,277,682)	\$(176,611 )
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation, accretion and amortization, net	586,188	402,939
Gain on contract termination	(124,732 )	—
Provision on inventory reserve	1,000	43,609
Stock-based compensation	133,808	138,329
Non-cash interest expense	—	577
Loss on sale of assets	13,343	2,909
Provision for losses on accounts receivable	4,395	8,000
Changes in operating assets and liabilities, net of effects of acquisitions		
(Increase) decrease in:		
Accounts receivable	(1,840,150 )	(1,908,655 )
Unbilled revenue	(245,892 )	(776,365 )
Inventory, net	(853,262 )	(1,279,847 )
Due from related party	585,492	(236,971 )
Prepaid expenses and other current assets	(43,743 )	(18,673 )
Other non-current assets	54,741	(32,251 )
Increase (decrease) in:		
Accounts payable	(262,925 )	1,641,206
Accrued expenses and other current liabilities	779,945	(233,824 )
Deferred revenue	185,059	407,379
Interest payable, related party	(52,265 )	21,378
Net cash used in operating activities	(2,356,680 )	(1,996,871 )
<b>CASH FLOWS FROM INVESTING ACTIVITIES:</b>		
Purchases of property and equipment	(273,814 )	(315,205 )
Proceeds from sale of assets	3,606	—
Purchases of intangible assets	(203,648 )	(34,551 )
Cash acquired in asset acquisition	442,746	971,454
Expenses associated with asset acquisition	(900 )	—
Payment of stock issuance costs	(908 )	(367,101 )
Distributions to noncontrolling interest	(68,950 )	(31,362 )
Net cash provided by (used in) investing activities	(101,868 )	223,235
<b>CASH FLOWS FROM FINANCING ACTIVITIES:</b>		
Proceeds from revolving line of credit	12,550,590	—
Payments on revolving line of credit	(10,696,691 )	—
Payments for debt issuance costs	(145,011 )	—
Proceeds from the exercise of stock options	63,305	128,918
Payment on loan due to related party	(850,000 )	—
Net cash provided by financing activities	922,193	128,918
Change in cash and cash equivalents	(1,536,355 )	(1,644,718 )
Cash and cash equivalents, beginning of the period	1,673,072	3,721,765
Cash and cash equivalents, end of the period	\$ 136,717	\$ 2,077,047

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Supplemental disclosures of cash flows information:

Cash paid for interest	\$ 112,460	\$ 95,550
Cash paid for taxes	\$ 44,864	\$ —
Issuance of stock to acquire American DG Energy	\$ —	\$ 18,745,007
Issuance of Tecogen stock options in exchange for American DG Energy options	\$ —	\$ 114,896

The accompanying notes are an integral part of these consolidated financial statements.



TECOGEN INC.

Notes to Unaudited Condensed Consolidated Financial Statements

Note 1. Description of Business and Basis of Presentation

Description of business

Tecogen Inc., or the Company, we, our or us produces commercial and industrial, natural-gas-fueled engine-driven, combined heat and power (CHP) products that reduce energy costs, decrease greenhouse gas emissions and alleviate congestion on the national power grid. The Company's products supply electric power or mechanical power for cooling, while heat from the engine is recovered and purposefully used at a facility. The Company also installs, owns, operates and maintains complete energy systems and other complementary systems at customer sites and sells electricity, hot water, heat and cooling energy under long-term contracts at prices guaranteed to the customer to be below conventional utility rates.

The majority of the Company's customers are located in regions with the highest utility rates, typically California, the Midwest and the Northeast. The Company's common stock is listed on NASDAQ under the ticker symbol TGEN. On May 18, 2017, the Company acquired 100% of the outstanding common stock of American DG Energy Inc., formerly a related entity, in a stock-for-stock merger (see Note 4. Acquisition of American DG Energy Inc.).

Basis of Presentation

The accompanying unaudited condensed consolidated financial statements have been prepared in accordance with generally accepted accounting principles for interim financial information and with the instructions to Form 10-Q and Article 8 of Regulation S-X. Accordingly, they do not include all the information and footnotes required by generally accepted accounting principles for complete financial statements. In the opinion of management, all adjustments considered necessary for a fair presentation have been included. Operating results for the nine months ended September 30, 2018 are not necessarily indicative of the results that may be expected for the year ending December 31, 2018.

The condensed consolidated balance sheet at December 31, 2017 has been derived from the audited consolidated financial statements at that date but does not include all of the information and footnotes required by generally accepted accounting principles for complete financial statements.

For further information, refer to the consolidated financial statements and footnotes thereto included in Tecogen's Annual Report on Form 10-K for the year ended December 31, 2017.

There have been certain changes in accounting principles as discussed below in the section entitled "Significant New Accounting Standards Adopted this Period."

The accompanying unaudited condensed consolidated financial statements include the accounts of the Company and entities in which it has a controlling financial interest. Those entities include the Company's wholly-owned subsidiaries American DG Energy Inc., TTcogen LLC, and a joint venture, American DG New York, LLC, in which American DG Energy Inc. holds a 51% interest. Investments in partnerships and companies in which the Company does not have a controlling financial interest but where we have significant influence are accounted for under the equity method. Any intercompany transactions have been eliminated in consolidation.

The Company's operations are comprised of two business segments. Our Products and Services segment designs, manufactures and sells industrial and commercial cogeneration systems as described above. Our Energy Production segment sells energy in the form of electricity, heat, hot water and cooling to our customers under long-term sales agreements.

Reclassification

Certain prior period amounts have been reclassified to conform with current year presentation.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Income Taxes

The provisions for income taxes in the accompanying unaudited consolidated statements of operations differ from that which would be expected by applying the federal statutory tax rate primarily due to losses for which no benefit is recognized.

TECOGEN INC.

Notes to Unaudited Condensed Consolidated Financial Statements

Significant New Accounting Standards Adopted this Period

Cloud Computing Arrangement. During the third quarter of 2018, the Company early adopted ASU 2018-15 "Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement that is a Service Contract" as it is currently undertaking implementation of a new enterprise resource planning system (ERP). The Company opted to apply the provisions of ASU 2018-15 on a prospective basis. The primary effect of the provisions is to capitalize certain implementation costs during the application development phase and to amortize those costs prospectively over the life of the agreement rather than expense them currently as general and administrative costs. Revenue Recognition. In May 2014, the Financial Accounting Standards Board ("FASB") issued an accounting standard update (ASU 2014-09) related to revenue from contracts with customers, which, along with amendments issued in 2015 and 2016, supersedes nearly all current U.S. GAAP guidance on this topic and eliminates industry-specific guidance. The underlying principle is to recognize revenue when promised goods or services are transferred to customers in an amount that reflects the consideration that is expected to be received for those goods or services. The Company adopted this accounting standard update on a modified retrospective basis in the first quarter of 2018. See Note 2., Revenue for further discussion.

Investments in Equity Securities. In January 2016, the FASB issued an accounting standard update related to investments in equity securities requiring unrealized holding gains and losses to be included in net income. Prior to this update, unrealized holding gains and losses related to available-for-sale securities were included in accumulated other comprehensive income and not included in determining net income. This accounting standard update became effective for the Company beginning in the first quarter of 2018 and is applied by means of a cumulative-effect adjustment to the balance sheet as of January 1, 2018. The Company adopted this accounting standard update in the first quarter of 2018 which resulted in reclassification of \$165,317 of cumulative unrealized holding losses from accumulated other comprehensive loss to accumulated deficit. The future impact of recognizing unrealized holding gains or losses in net income is dependent on the movement in the stock prices related to such investments.

Significant New Accounting Standards or Updates Not Yet Effective

Leases In February 2016, the FASB issued an accounting standard update related to leases requiring lessees to recognize operating and financing lease liabilities on the balance sheet, as well as corresponding right-of-use assets. The new lease standard also makes some changes to lessor accounting and aligns key aspects of the lessor accounting model with the revenue recognition standard. In addition, disclosures will be required to enable users of financial statements to assess the amount, timing, and uncertainty of cash flows arising from leases. The accounting standard update will be effective for the Company beginning in the first quarter of fiscal 2019 on a modified retrospective basis, and early adoption is permitted. The Company is currently evaluating the impact of this accounting standard update on its consolidated financial statements.

Note 2. Revenue

Revenue is recognized when performance obligations under the terms of a contract with our customer are satisfied; generally this occurs with the transfer of control of our products, services and energy production. Revenue is measured as the amount of consideration we expect to receive in exchange for transferring goods or providing services or energy to customers.

Shipping and handling fees billed to customers in a sales transaction are recorded in revenue and shipping and handling costs incurred are recorded in cost of sales. The Company has elected to exclude from revenue any value add sales and other taxes which it collects concurrent with revenue-producing activities. These accounting policy elections are consistent with the manner in which the Company historically recorded shipping and handling fees and taxes. Incremental costs incurred by us in obtaining a contract with a customer are negligible, if any, and are expensed

ratably in proportion to the related revenue recognized.

The application of ASU 2014-09 did not have an impact upon adoption or on the amounts reported for the interim period ended September 30, 2018 as compared with the guidance that was in effect before the adoption and application of ASU 2014-09.

#### Disaggregated Revenue

In general, the Company's business segmentation is aligned according to the nature and economic characteristics of its products and customer relationships and provides meaningful disaggregation of each business segment's results of operations.

## TECOGEN INC.

## Notes to Unaudited Condensed Consolidated Financial Statements

The following table further disaggregates our revenue by major source by segment for the three and nine months ended September 30, 2018.

## Three Months Ended September 30, 2018

	Products and Services	Energy Production	Total
Products	\$2,765,094	\$—	\$2,765,094
Installation services	1,648,119	—	1,648,119
Maintenance services	2,065,651	—	2,065,651
Energy production	—	1,459,820	1,459,820
Total revenue	\$6,478,864	\$1,459,820	\$7,938,684

## Nine Months Ended September 30, 2018

	Products and Services	Energy Production	Total
Products	\$8,922,257	\$—	\$8,922,257
Installation services	6,350,379	—	6,350,379
Maintenance services	6,544,060	—	6,544,060
Energy production	—	4,750,580	4,750,580
Total revenue	\$21,816,696	\$4,750,580	\$26,567,276

## Product and Services Segment

**Products.** We transfer control and generally recognize a sale when we ship a product from our manufacturing facility at which point a customer takes ownership of the product. Payment terms on product sales are generally 30 days.

We recognize revenue in certain circumstances before delivery to the customer has occurred (commonly referred to as bill and hold transactions). We recognize revenue related to such transactions once, among other things, the customer has made a written fixed commitment to purchase the product(s) under normal billing and credit terms, the customer has requested the product(s) be held for future delivery as scheduled and designated by them, risk of ownership has been assumed by the customer, and the product(s) are tagged as sold and segregated for storage awaiting further direction from the customer. Due to the infrequent nature and duration of bill and hold arrangements, the value associated with custodial storage services is deemed immaterial in the context of the contract and in total, and accordingly, none of the transaction price is allocated to such service.

Depending on the product and terms of the arrangement, we may defer the recognition of a portion of the transaction price received because we have to satisfy a future obligation (e.g., product start-up service). Amounts allocated to product start-up services are recognized as revenue when the start-up service has been completed. We use an observable selling price to determine standalone selling prices where available and either a combination of an adjusted market assessment approach, an expected cost plus a margin approach, and/or a residual approach to determine the standalone selling prices for separate performance obligations as a basis for allocating contract consideration when an observable selling price is not available. Amounts received but not recognized pending completion of performance are recognized as contract liabilities and are recorded as deferred revenue along with deposits by customers.

**Installation Services.** We provide both complete turnkey installation services and what we refer to as light installation services. Complete turnkey installation services typically include all necessary engineering and design, labor, subcontract labor and service, and ancillary products and parts necessary to install a cogeneration unit including

integration into the customers' existing electrical and mechanical systems. Light installation services typically include some engineering and design as well as certain ancillary products and parts necessary for the customers' installation of a cogeneration unit.

Under light installation contracts, revenue related to ancillary products and parts is recognized when we transfer control of such items to the customer, generally when we ship them from our manufacturing facility, with revenue related to engineering and design services being recognized at the point where the customer can benefit from the service, generally as completed. Generally billings under light installation contracts are made when shipped and/or completed, with payment terms generally being 30 days.

TECOGEN INC.

Notes to Unaudited Condensed Consolidated Financial Statements

Under complete turnkey installation service contracts revenue is recognized over time using the percentage-of-completion method determined on a cost to cost basis. Our performance obligation under such contracts is satisfied progressively over time as enhancements are made to customer owned and controlled properties. We measure progress towards satisfaction of the performance obligation based on an input method based on cost which we believe is the most faithful depiction of the transfer of products and services to the customer under these contracts. When the financial metrics of a contract indicate a loss, our policy is to record the entire expected loss as soon as it is known. Contract costs and profit recognized to date under the percentage-of-completion method in excess of billings are recognized as contract assets and are recorded as unbilled revenue. Billings in excess of contract costs and profit are recognized as contract liabilities and are recorded as deferred revenue. Generally billings under complete turnkey installation contracts are made when contractually determined milestones of progress have been achieved, with payment terms generally being 30 days.

**Maintenance Services.** Maintenance services are provided under either long-term maintenance contracts or one-time maintenance contracts. Revenue under one-time maintenance contracts is recognized when the maintenance service is completed. Revenue under long-term maintenance contracts is recognized either ratably over the term of the contract where the contract price is fixed or when the periodic maintenance activities are completed where the invoiced cost to the customer is based on run hours or kilowatts produced in a given period. We use an output method to measure progress towards completion of our performance obligation which results in the recognition of revenue on the basis of a direct measurement of the value to the customer of the services transferred to date relative to the remaining services promised under the contract. We use the practical expedient at ASC 606-10-55-18 of recognizing revenue in an amount equal to that amount to which we have the right to invoice the customer under the contract.

**Energy Production Segment**

**Energy Production.** Revenue from energy contracts is recognized when electricity, heat, hot and/or chilled water is produced by the Company owned on-site cogeneration systems. Each month we bill the customer and recognize revenue for the various forms of energy delivered, based on meter readings which capture the quantity of the various forms of energy delivered in a given month, under a contractually defined formula which takes into account the current month's cost of energy from the local power utility.

As the various forms of energy delivered by us under energy production contracts are simultaneously delivered and consumed by the customer, our performance obligation under these contracts is considered to be satisfied over time. We use an output method to measure progress towards completion of our performance obligation which results in the recognition of revenue on the basis of a direct measurement of the value to the customer of the services transferred to date relative to the remaining services promised under the contract. We use the practical expedient at ASC 606-10-55-18 of recognizing revenue in an amount equal to that amount to which we have the right to invoice the customer under the contract. Payment terms on invoices under these contracts are generally 30 days.

**Contract Balances**

The timing of revenue recognition, billings and cash collections result in billed accounts receivable, unbilled revenue (contract assets) and deferred revenue, consisting of customer deposits and billings in excess of revenue recognized (contract liabilities) on the Consolidated Condensed Balance Sheets.

Revenue recognized during the quarter ended September 30, 2018 that was included in unbilled revenue at the beginning of the period was approximately \$1.0 million. Approximately \$0.9 million of revenue was billed in this period that had been recognized in previous periods.

Revenue recognized during the quarter ended September 30, 2018 that was included in deferred revenue at the beginning of the period was approximately \$1.8 million.

The decrease in the deferred revenue balance during the quarter ended September 30, 2018 is primarily a result of \$1.8 million of revenue recognized during the period that was included in the deferred revenue balance at the beginning of the quarter, offset by cash payments of \$1.7 million received in advance of satisfying performance obligations.

#### Remaining Performance Obligations

Remaining performance obligations related to ASC 606 represent the aggregate transaction price allocated to performance obligations with an original contract term greater than one year, excluding certain maintenance contracts and all energy production contracts where a direct measurement of the value to the customer is used as a method of measuring progress



## TECOGEN INC.

## Notes to Unaudited Condensed Consolidated Financial Statements

towards completion of our performance obligation. Exclusion of these remaining performance obligations is due in part to the inability to quantify values based on unknown future levels of delivery and in some cases rates used to bill customers. Remaining performance obligations therefore consist of unsatisfied or partially satisfied performance obligations related to fixed price maintenance contracts and installation contracts.

As of September 30, 2018, the aggregate amount of the transaction price allocated to remaining performance obligations was approximately \$12.2 million. The Company expects to recognize revenue of approximately 95% of the remaining performance obligations over the next 24 months, 54% recognized in the first 12 months and 41% recognized over the subsequent 12 months, and the remainder recognized thereafter.

## Note 3. Income (loss) Per Common Share

Basic and diluted income (loss) per share for the three and nine months ended September 30, 2018 and 2017, respectively, were as follows:

	Three months ended September 30,		Nine months ended September 30,	
	2018	2017	2018	2017
Net income (loss) attributable to stockholders	\$(603,037)	\$ 27,211	\$(1,336,628)	\$(221,544)
Weighted average shares outstanding - Basic	24,819,056	24,720,613	24,813,936	22,643,406
Basic income (loss) per share	\$(0.02 )	\$ 0.00	\$(0.05 )	\$(0.01 )
Weighted average shares outstanding - Diluted	24,819,056	24,930,624	24,813,936	22,643,406
Diluted income (loss) per share	\$(0.02 )	\$ 0.00	\$(0.05 )	\$(0.01 )
Anti-dilutive shares underlying stock options outstanding	149,722	—	137,410	235,736
Anti-dilutive convertible debentures	—	—	—	889,830
Anti-dilutive warrants outstanding	—	—	—	250,000

## Note 4. Acquisition of American DG Energy Inc.

On May 18, 2017, we completed our acquisition, by means of a stock-for-stock merger, of 100% of the outstanding common shares of American DG Energy Inc. ("American DG Energy" or "ADGE"), a company which installs, owns, operates and maintains complete distributed generation of electricity systems, or DG systems or energy systems, and other complementary systems at customer sites and sells electricity, hot water, heat and cooling energy under long-term contracts at prices guaranteed to the customer to be below conventional utility rates, by means of a merger of one of our wholly owned subsidiaries with and into ADGE such that ADGE became a wholly owned subsidiary of Tecogen. We acquired ADGE to, among other reasons, expand our product offerings and benefit directly from the long-term contracted revenue streams generated by these installations. We gained control of ADGE on May 18, 2017 by issuing common stock of the Company to the prior stockholders of ADGE.

## Note 5. Property, Plant and Equipment

Property, plant and equipment at September 30, 2018 and December 31, 2017 consisted of the following:

	Estimated Useful Life (in Years)	September 30, 2018	December 31, 2017
Energy systems	1 - 15 years	\$ 12,209,144	\$ 12,466,642
Machinery and equipment	5 - 7 years	1,355,617	1,215,951
Furniture and fixtures	5 years	104,317	205,320
Computer software	3 - 5 years	274,169	115,253
Leasehold improvements	*	450,792	440,519

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	14,394,039	14,443,685
Less - accumulated depreciation and amortization	(3,286,530 )	(2,177,974 )
	\$ 11,107,509	\$ 12,265,711

\* Lesser of estimated useful life of asset or lease term

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## TECOGEN INC.

## Notes to Unaudited Condensed Consolidated Financial Statements

Depreciation and amortization expense on property and equipment for the three and nine months ended September 30, 2018 and 2017 was \$404,315 and \$1,234,731 and \$425,911 and \$751,960, respectively. During the third quarter of 2018 the Company capitalized \$40,690 of implementation costs incurred in connection with the implementation of an ERP system as discussed in Note 1. Description of Business and Basis of Presentation.

## Note 6. Intangible Assets and Liabilities Other Than Goodwill

As of September 30, 2018 and December 31, 2017 the Company had the following amounts related to intangible assets and liabilities other than goodwill:

	September 30, 2018			December 31, 2017		
	Cost	Accumulated Amortization	Total	Cost	Accumulated Amortization	Total
Intangible assets						
Product certifications	\$726,159	\$(329,812 )	\$396,347	\$605,704	\$(285,341 )	\$320,363
Patents	888,382	(182,107 )	706,275	808,323	(154,972 )	653,351
Developed technology	240,000	(88,000 )	152,000	240,000	(76,000 )	164,000
Trademarks	21,740	—	21,740	19,540	—	19,540
In Process R&D	263,936	—	263,936	263,001	—	263,001
Favorable contract asset	1,561,739	(195,440 )	1,366,299	1,561,739	(85,536 )	1,476,203
TTcogen intangible assets	29,607	(925 )	28,682	—	—	—
	\$3,731,563	\$(796,284 )	\$2,935,279	\$3,498,307	\$(601,849 )	\$2,896,458

## Intangible liability

Unfavorable contract liability \$7,912,275 \$(1,378,201 ) \$6,534,074 \$8,341,922 \$(612,255 ) \$7,729,667

The aggregate amortization expense related to intangible assets and liabilities exclusive of contract related intangibles for the three and nine months ended September 30, 2018 and 2017 was \$25,981 and \$77,357, and \$23,106 and \$74,482, respectively. The net credit to cost of sales related to the amortization of contract related intangible assets and liabilities for the three and nine months ended September 30, 2018 and 2017 was \$211,876 and \$656,042, and \$290,677 and \$428,264, respectively.

## Favorable/Unfavorable Contract Assets and Liabilities

The favorable contract asset and unfavorable contract liability in the foregoing table represent the estimated fair value of American DG Energy's customer contracts (both positive for favorable contracts and negative for unfavorable contracts) which were acquired by the Company in May 2017 (see Note 4. Acquisition of American DG Energy Inc.).

Amortization of intangibles including contract related amounts is calculated using the straight-line method over the remaining useful life or contract term. Aggregate future amortization over the next five years is estimated to be as follows:

Year 1 \$(489,690)  
 Year 2 (433,817 )  
 Year 3 (469,177 )  
 Year 4 (464,601 )  
 Year 5 (397,276 )

## Note 7. Stock-Based Compensation

Stock-Based Compensation

The Company adopted a 2006 Stock Option and Incentive Plan, or the Plan, under which the Board of Directors may grant incentive or non-qualified stock options and stock grants to key employees, directors, advisors and consultants of the Company. The Plan was amended at various dates by the Board of Directors to increase the reserved shares of common stock issuable under the Amended Plan to 3,838,750 as of September 30, 2018.

## TECOGEN INC.

## Notes to Unaudited Condensed Consolidated Financial Statements

Stock options vest based upon the terms within the individual option grants, with an acceleration of the unvested portion of such options upon a change in control event, as defined in the Amended Plan. The options are not transferable except by will or domestic relations order. The option price per share under the Amended Plan cannot be less than the fair market value of the underlying shares on the date of the grant. The number of shares remaining available for future issuance under the Amended Plan as of September 30, 2018 was 1,961,736.

Stock option activity for the nine months ended September 30, 2018 was as follows:

Common Stock Options	Number of Options	Exercise Price Per Share	Weighted Average Exercise Price	Weighted Average Remaining Life	Aggregate Intrinsic Value
Outstanding, December 31, 2017	1,061,552	\$0.79-\$18.15	\$ 3.60	4.95 years	\$ 291,449
Granted	297,500	\$2.30-\$4.04	\$ 3.52		
Exercised	(52,754 )	\$1.20	\$ 1.20		
Canceled and forfeited	(72,009 )	\$2.30-\$18.15	\$ 6.70		
Outstanding, September 30, 2018	1,234,289	\$0.79-\$10.33	\$ 3.50	5.94 years	\$ 422,771
Exercisable, September 30, 2018	819,914		\$ 3.37		\$ 396,971
Vested and expected to vest, September 30, 2018	1,172,133		\$ 3.49		\$ 418,901

Consolidated stock-based compensation expense for the nine months ended September 30, 2018 and 2017 was \$133,808 and \$138,329, respectively. No tax benefit was recognized related to the stock-based compensation recorded during the periods.

## Note 8. Fair Value Measurements

The fair value topic of the FASB Accounting Standards Codification defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. The accounting guidance also establishes a fair value hierarchy which requires an entity to maximize the use of observable inputs, where available, and minimize the use of unobservable inputs when measuring fair value. There are three levels of inputs that may be used to measure fair value:

Level 1 - Unadjusted quoted prices in active markets for identical assets or liabilities. The Company currently does not have any Level 1 financial assets or liabilities.

Level 2 - Observable inputs other than quoted prices included in Level 1. Level 2 inputs include quoted prices for identical assets or liabilities in non-active markets, quoted prices for similar assets or liabilities in active markets and inputs other than quoted prices that are observable for substantially the full term of the asset or liability. The Company has Level 2 financial assets and liabilities as provided below.

Level 3 - Unobservable inputs reflecting management's own assumptions about the input used in pricing the asset or liability. The Company does not currently have any Level 3 financial assets or liabilities.

The following table presents the asset reported in the consolidated balance sheet measured at its fair value on a recurring basis as of September 30, 2018 by level within the fair value hierarchy.

September 30, 2018	Quoted prices in active markets	Significant other observable inputs	Significant unobservable inputs
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		for identical assets				
	Total	Level 1	Level 2	Level 3		Total gains (losses)
Recurring fair value measurements						
Marketable equity securities						
EuroSite Power Inc.	\$295,209	\$	—\$ 295,209	\$		—\$(224,359)
Total recurring fair value measurements	\$295,209	\$	—\$ 295,209	\$		—\$(224,359)

TECOGEN INC.

Notes to Unaudited Condensed Consolidated Financial Statements

The Company utilizes a Level 2 category fair value measurement to value its investment in EuroSite Power as a marketable equity security at period end. That measurement is equal to the quoted market closing price at period end. Since this security is not actively traded the Company classifies it as Level 2.

Note 9. Revolving Line of Credit, Bank

On May 4, 2018 ("Closing Date") the Company, and its wholly owned subsidiaries, American DG Energy Inc. and TTCogen LLC (collectively, the "Borrowers"), entered into a Credit Agreement with Webster Business Credit Corporation (the "Lender") that matures in May 2021 and provides Borrowers a line of credit of up to \$10 million on a revolving and secured basis, with availability based on certain accounts receivables, raw materials, and finished goods.

Borrowings under the Credit Agreement bear interest at a rate equal to, at the Borrower's option, either (1) One Month LIBOR, plus 3.00%, or (2) Lender's Base Rate, plus 1.5%. Lender's Base Rate is defined as the highest of (a) the Federal Funds rate plus 0.5%, (b) Lender's Prime Rate as adjusted by Lender from time to time, and (c) One Month LIBOR, plus 2.75%.

The Credit Agreement contains certain affirmative and negative covenants applicable to the Company and its subsidiaries, which include, among other things, restrictions on their ability to (i) incur additional indebtedness, (ii) make certain investments, (iii) acquire other entities, (iv) dispose of assets and (v) make certain payments including those related to dividends or repurchase of equity. The Credit Agreement also contains financial covenants including maintaining a fixed charge coverage ratio of not less than 1.10:1.00 and the Company may not make any financed capital expenditures in excess of \$500,000 in the aggregate in any fiscal year. The bank has agreed to provide a waiver to the Company as it is not in compliance with all of the covenants.

The \$145,011 of costs incurred in connection with the issuance of the revolving credit facility were capitalized and are being amortized to interest expense on a straight-line basis over three years based on the contractual term of the Agreement. As of September 30, 2018, the outstanding balance on the line of credit was \$1,833,758 and the unamortized portion of debt issuance cost related to the Credit Agreement was \$124,870 and is included as a reduction to the revolving line of credit in the accompanying Condensed Consolidated Balance Sheet.

Note 10. Commitments and Contingencies

The Company guarantees certain obligations of a former subsidiary of American DG Energy, EuroSite Power Inc. These guarantees include a payment performance guarantee in respect of collateralized equipment financing loans, with a remaining principal amount outstanding subject to the guarantee at September 30, 2018 of approximately \$225,207 due ratably in equal installments through September 2021, and certain guarantees of performance in respect of certain customer contracts. Based on current conditions, the Company does not believe there to be any amounts probable of payment by the Company under any of the guarantees and has estimated the value associated with the non-contingent aspect of the guarantees is approximately \$10,000 which is recorded as a liability in the accompanying financial statements.

Legal Proceedings

The Company is a party to a pending action in the United States District Court for the District of Massachusetts, described below, related to the merger with ADGE.

Massachusetts Superior Court Action

On or about February 6, 2017, ADGE, John Hatsopoulos, George N. Hatsopoulos, Charles T. Maxwell, Deanna M. Petersen, Christine Klaskin, John Rowe, Joan Giacinti, Elias Samaras, Tecogen, and the wholly owned subsidiary of the Company that merged with ADGE ("Merger Sub") were served with a Verified Complaint by William C. May ("May"), individually and on behalf of the other shareholders of ADGE as a class. The action was commenced in the

Business Litigation Session of the Superior Court of the Commonwealth of Massachusetts, Civil Action No. 17-0390. The complaint alleged class action claims arising out of the proposed Merger. On May 31, 2017, May voluntarily dismissed the action and consolidated his claims with the pending federal action in the United States District Court for the District of Massachusetts, described below. If the complaint in the federal court is dismissed, it is possible that May or another plaintiff will recommence an action in state court with similar claims to those asserted by May.

United States District Court Action

On or about February 15, 2017, a lawsuit was filed in the United States District Court for the District of Massachusetts by Lee Vardakas (“Vardakas”), individually and on behalf of other stockholders of ADGE, naming ADGE, John N. Hatsopoulos, George N. Hatsopoulos, Benjamin Locke, Charles T. Maxwell, Deanna M. Petersen, Christine M. Klaskin, John



TECOGEN INC.

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Rowe, Joan Giacinti, Elias Samaras, Tecogen., Merger Sub., and Cassel Salpeter and Co., LLC, as defendants (the "Defendants"). The action is captioned Vardakas v. American DG Energy, Inc., Case No. 17-CV-10247(LTS). At the time Vardakas commenced the action, his complaint challenged the proposed Merger between Tecogen and ADGE. Following the consummation of the Merger (and the appointment of May, from the Massachusetts Superior Court Action, as lead plaintiff), Vardakas filed an Amended Class Action Complaint (the "Amended Complaint"). The Amended Complaint discontinued the claims against Cassel Salpeter & Co., LLC but asserted against the remaining defendants claims under Section 14(a) of the Securities Exchange Act of 1934 (the "Exchange Act") and SEC Rule 14a-9; claims against certain defendants for control person liability under § 20(a) of the Exchange Act (collectively, the "Federal Securities Law Claims"); and common law claims for breach of fiduciary duty and aiding and abetting (the "State Law Claims"). The Federal Securities Law Claims allege, in substance, that defendants made material nondisclosure in the proxy statement about the process leading to the Merger and about the fairness opinion relied upon by ADGE's Board of Directors in recommending the Merger to shareholders. The State Law Claims assert, in substance, that defendants breached their fiduciary duties in negotiating and approving the Merger, which, plaintiff claims, deprived ADGE's nonaffiliated shareholders of fair value for their shares.

On July 19, 2017, defendants moved to dismiss the Amended Complaint. In their motion papers, defendants contended that the Federal Securities Law Claims are not sufficiently pleaded and fail to state a viable claim.

On February 28, 2018, the parties presented their oral arguments on the defendant's motion to dismiss. On March 2, 2018, the district court rendered its decision, dismissing the Federal Securities Law Claims, but retaining the State Law Claims. The district court exercised supplemental jurisdiction over the State Law Claims and ordered the Defendants to file an answer to the Amended Complaint addressing the State Law Claims. On March 12, 2018, the Defendants filed their first answer. On May 2, 2018, the Defendants filed their amended answer to assert further defenses, and the judge in the district court ordered the parties to hold a mediation session.

On May 21, 2018, defendants filed a motion for judgment on the pleadings. A hearing on the motion for judgment on the pleadings was held on November 2, 2018, and the parties are awaiting a decision on the motion.

On July 6, 2018 plaintiff filed a motion for class certification and plaintiff and defendants filed briefs regarding class certification in August and September 2018. The parties are awaiting a hearing or a decision on the class certification motion if defendants' motion for judgment on the pleadings is not granted.

The Company believes that the lawsuit is without merit and intends to defend vigorously. The Amended Complaint does not specify the amount of damages claimed and the likelihood of an unfavorable outcome is not reasonably estimable.

Note 11. Related Party Transactions

In January of 2017, prior to its acquisition of American DG Energy, the Company purchased a large quantity of used equipment from American DG Energy for approximately \$985,000. Tecogen has sold a majority of this equipment to specific customers during the previous quarters.

In connection with the acquisition of American DG Energy, the Company assumed a loan from John N. Hatsopoulos, the Company's former Co-Chief Executive Officer and a former Company Director. The loan is in the amount of \$850,000 and bore interest at 6%, payable quarterly. On May 4, 2018, the Company, through payment of \$919,590, terminated the loan and all obligations under the loan.

Ultra Emissions Technologies Ltd. ("Ultratek")

By unanimous written consent on October 24, 2017, the shareholders of Ultratek voted to dissolve Ultratek, thus terminating the joint venture agreement dated December 28, 2015 and the license agreement between the Company and Ultratek. This joint venture agreement and license agreement is described in its entirety on the Company's Form 8-K that was filed with the Securities and Exchange Commission on December 31, 2015.

Pursuant to the unanimous shareholder consent dissolving Ultratek, the Company received its full \$2,000,000 investment in Ultratek upon the completion of the liquidation process. Further, upon termination of the license agreement all intellectual property immediately reverted to the Company. Upon dissolution, the Company purchased

all of the remaining assets of Ultratek, including new intellectual property that Ultratek developed and other assets, for a total purchase price of \$400,000.

TTcogen LLC

On May 19, 2016, the Company along with Tedom a.s., a corporation incorporated in the Czech Republic and a European combined heat and power product manufacturer ("Tedom"), entered into a joint venture, where the Company held a

## TECOGEN INC.

## Notes to Unaudited Condensed Consolidated Financial Statements

50% participating interest and the remaining 50% interest was held by Tedom. As part of the joint venture, the parties agreed to create a Delaware limited liability company, TTcogen LLC ("TTcogen"), to carry out the business of the venture. Tedom granted TTcogen the sole and exclusive right to market, sell, offer for sale, and distribute certain products as agreed to by the parties throughout the United States. The product offerings of the joint venture expanded the current Tecogen product offerings to the MicroCHP for 35kW to large 4,000kW plants. Tecogen agreed to refer all appropriate sale leads to TTcogen regarding certain products and Tecogen would have the first right to repair and maintain the products sold by TTcogen.

Until the Company acquired the assets of TTcogen, the Company accounted for its interest in TTcogen's operations using the equity method of accounting. Any initial operating losses of TTcogen were borne and funded by Tedom. To the extent any such losses were borne and funded solely by Tedom, the Company did not recognize any portion of such losses given the Company did not guarantee the obligations of the joint venture nor is it committed to provide funding to the joint venture.

On September 22, 2017, the Company provided written notice to Tedom and Tedom USA Inc., a Delaware subsidiary of Tedom ("Tedom USA") that the Company is exercising its rights under the Joint Venture Agreement dated May 19, 2016 ("JVA") and the TTcogen LLC Operating Agreement ("LLC Operating Agreement"), to terminate the JVA and LLC Operating Agreement. This notice began the dissolution process under the LLC Operating Agreement.

On March 27, 2018, the Company entered into a Membership Interest Purchase and Wind-Down Agreement (the "Purchase Agreement") among the Company, Tedom, Tedom USA, and TTcogen. The Purchase Agreement follows the mutual agreement of the parties to terminate the joint venture between the Company and Tedom that resulted in the creation of TTcogen, and implements the acquisition by the Company of Tedom USA's 50% membership interest in TTcogen for a purchase price of one dollar, plus \$72,597, which represents a portion of Tedom USA's initial investment in TTcogen, minus certain adjustments.

The Purchase Agreement also grants TTcogen and the Company the exclusive right to market, sell, and distribute Tedom's Micro T35 combined heat and power equipment within an agreed territory in the northeastern United States under certain conditions, and limits the Company's right to sell certain competing products. The Company will provide services for Tedom equipment sold by TTcogen or the Company.

The acquisition of Tedom's 50% membership interest for \$72,598 was accounted for as an acquisition of assets, and not a business combination, due to the lack of an assembled workforce. The Company adopted the provisions of ASU 2017-01 "Business Combinations - Clarifying the Definition of a Business" at the beginning of 2018, which require, at a minimum, the presence of an input and substantive process that together significantly contribute to the ability to create an output. The lack of an assembled workforce results in the non presence of a substantive process. The following represents the consideration for and the fair value of assets acquired and liabilities assumed recognized at the acquisition date:

Cash	\$442,786
Accounts receivable	176,235
Unbilled revenue	232,540
Fixed assets	47,508
Intangible assets	29,607
Accounts payable	(811,468 )
Deferred revenue	(44,610 )
Cash payable	\$72,598

The intangible asset represents contract backlog related to acquired contracts. The value assigned to contract backlog was determined based on the result of a discounted cash flow analysis, which resultant value was capped so as to preclude recognition of any amount in excess of cost after considering the fair values assigned to other assets acquired and liabilities assumed.

Note 12. Segments

As of September 30, 2018, the Company was organized into two operating segments through which senior management evaluates the Company's business. These segments, as described in more detail in Note 1, are organized around the products and services provided to customers and represent the Company's reportable segments. Prior to the acquisition of ADGE (see Note 4. "Acquisition of American DG Energy Inc."), the Company's operations were comprised of a single

## TECOGEN INC.

## Notes to Unaudited Condensed Consolidated Financial Statements

segment. The following table presents information by reportable segment for the three and nine months ended September 30, 2018 and 2017:

	Products and Services	Energy Production	Corporate, other and elimination (1)	Total
Three months ended September 30, 2018				
Revenue - external customers	\$6,478,864	\$1,459,820	\$—	\$7,938,684
Intersegment revenue	216,993	—	(216,993 )	—
Total revenue	\$6,695,857	\$1,459,820	\$(216,993 )	\$7,938,684
Gross profit	\$2,266,307	\$616,791	\$—	\$2,883,098
Identifiable assets	\$21,311,668	\$12,870,771	\$16,579,095	\$50,761,534
Three months ended September 30, 2017				
Revenue - external customers	\$6,945,083	\$1,556,115	\$—	\$8,501,198
Intersegment revenue	250,525	—	(250,525 )	—
Total revenue	\$7,195,608	\$1,556,115	\$(250,525 )	\$8,501,198
Gross profit	\$2,425,114	\$832,917	\$—	\$3,258,031
Identifiable assets	\$19,179,530	\$16,028,115	\$21,424,270	\$56,631,915
Nine months ended September 30, 2018				
Revenue - external customers	\$21,816,696	\$4,750,580	\$—	\$26,567,276
Intersegment revenue	863,077	—	(863,077 )	—
Total revenue	\$22,679,773	\$4,750,580	\$(863,077 )	\$26,567,276
Gross profit	\$7,958,320	\$1,922,175	\$—	\$9,880,495
Identifiable assets	\$21,311,668	\$12,870,771	\$16,579,095	\$50,761,534
Nine months ended September 30, 2017				
Revenue - external customers	\$20,608,196	\$2,330,307	\$—	\$22,938,503
Intersegment revenue	442,343	—	(442,343 )	—
Total revenue	\$21,050,539	\$2,330,307	\$(442,343 )	\$22,938,503
Gross profit	\$7,882,758	\$1,276,566	\$—	\$9,159,324
Identifiable assets	\$19,179,530	\$16,028,115	\$21,424,270	\$56,631,915

(1) Corporate, intersegment revenue, other and elimination includes various corporate assets.

## Note 13. Subsequent Events

The Company has evaluated subsequent events through the date of this filing and determined that, other than the events discussed in Note 10. Commitments and Contingencies, no other material subsequent events occurred that would require recognition in the consolidated financial statements or disclosure in the notes thereto.

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Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

Forward-looking statements are made throughout this Management's Discussion and Analysis of Financial Condition and Results of Operations. Any statements contained herein that are not statements of historical fact may be deemed to be forward-looking statements. Without limiting the foregoing, the words "believes," "anticipates," "plans," "expects," "seeks," "estimates" and similar expressions are intended to identify forward-looking statements. Such forward-looking statements include, among other things, statements regarding our current and future cash requirements, our expectations regarding suppliers of cogeneration units, and statements regarding potential financing activities in the future. While the Company may elect to update forward-looking statements in the future, it specifically disclaims any obligation to do so, even if the Company's estimates change, and readers should not rely on those forward-looking statements as representing the Company's views as of any date subsequent to the date of the filing of this Quarterly Report. There are a number of important factors that could cause the actual results of the Company to differ materially from those indicated by such forward-looking statements, including those detailed under the heading "Risk Factors" in our Annual Report on Form 10-K for our fiscal year ended December 31, 2017

Overview

Tecogen designs, manufactures and sells industrial and commercial cogeneration systems that produce combinations of electricity, hot water and air conditioning using automotive engines that have been specially adapted to run on natural gas. In some cases, our customers may choose to have the Company engineer and install the system for them rather than simply purchase the cogeneration and/or chiller units, which we refer to as "turnkey" projects. Cogeneration systems are efficient because in addition to supplying mechanical energy to power electric generators or compressors – displacing utility supplied electricity – they provide an opportunity for the facility to incorporate the engine's waste heat into onsite processes, such as space and portable water heating. We produce standardized, modular, small-scale products, with a limited number of product configurations that are adaptable to multiple applications. We refer to these combined heat and power products as CHP (electricity plus heat) and MCHP (mechanical power plus heat).

Our products are sold directly to end-users by our in-house marketing team and by established sales agents and representatives. We have agreements in place with distributors and sales representatives. Our existing customers include hospitals and nursing homes, colleges and universities, health clubs and spas, hotels and motels, office and retail buildings, food and beverage processors, multi-unit residential buildings, laundries, ice rinks, swimming pools, factories, municipal buildings, military installations and indoor growing facilities. We have an installed base of more than 3,000 units. Our products have long useful lives with proper maintenance. Some of our units have been operating for almost 35 years.

With the acquisition of American DG Energy Inc. ("ADGE") in May 2017, we added an additional source of revenue. Through ADGE, we install, own, operate and maintain complete distributed generation of electricity systems, or DG systems or energy systems, and other complementary systems at customer sites, and sell electricity, hot water, heat and cooling energy under long-term contracts at prices guaranteed to the customer to be below conventional utility rates. Each month we obtain readings from our energy meters to determine the amount of energy produced for each customer. We use a contractually defined formula to multiply these readings by the appropriate published price of energy (electricity, natural gas or oil) from each customer's local energy utility, to derive the value of our monthly energy sale, which includes a negotiated discount. Our revenues per customer on a monthly basis vary based on the amount of energy produced by our energy systems and the published price of energy (electricity, natural gas or oil) from our customer's local energy utility that month.

The Company's operations are comprised of two business segments. Our Products and Services segment ("Segment 1") designs, manufactures and sells industrial and commercial cogeneration systems as described above. Our Energy Production segment ("Segment 2") sells energy in the form of electricity, heat, hot water and cooling to our customers under long-term sales agreements.

In addition to being a smaller reporting company, Tecogen is an emerging growth company as that term is defined in the Jumpstart Our Business Startups Act of 2012 (JOBS Act).

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Results of Operations

Third Quarter of 2018 Compared to Third Quarter of 2017

Revenues

Total revenues in the third quarter of 2018 were \$7,938,684 compared to \$8,501,198 for the same period in 2017, a decrease of \$562,514 or 6.6%.

Segment 1 - Products and Services

Product revenues in the third quarter of 2018 were \$2,765,094 compared to \$2,425,616 for the same period in 2017, an increase of \$339,478 or 14.0%. This increase was the net of a decrease in cogeneration sales of \$178,307 and an increase in chiller sales of \$517,785, year over year. We are seeing a marked increase in chiller interest due, in part, to the indoor agriculture market. Service revenues in the third quarter of 2018 were \$3,713,770 compared to \$4,519,467 for the same period in 2017, a decrease of \$805,697 or 17.8%. This decrease in the third quarter is due to a decrease in installation activity of \$761,694 and a decrease of \$44,003 in service contract revenues. While service contract revenue remains relatively constant, installation activity can vary widely depending on the status of various projects.

Segment 2 - Energy Production

Energy production revenues in the third quarter of 2018 were \$1,459,820, compared to \$1,556,115 for the same period in 2017, a decrease of \$96,295 or 6.2%. Energy production revenue represents energy revenues earned during the quarter by our American DG Energy sites.

Cost of Sales

Cost of sales in the third quarter of 2018 was \$5,055,586 compared to \$5,243,167 for the same period in 2017, a decrease of \$187,581, or 3.6%.

Segment 1 - Products and Services

Cost of sales for products and services in the third quarter of 2018 was \$4,212,557 compared to \$4,519,969 for the same period in 2017, a decrease of \$307,412 or 6.8%. During the third quarter our overall gross margin for our product and services segment was 35.0% compared to 34.9% for the same period in 2017. The increase is primarily due to a change in product mix.

Segment 2 - Energy Production

Cost of sales for energy production in the third quarter of 2018 was \$843,029 compared to \$723,198 for the same period in 2017, an increase of \$119,831 or 16.6%. Gross margin for this segment was 42.3% for the third quarter of 2018 compared to 53.5% for the same period in 2017. The third quarter of 2017 was an unusually high margin quarter.

Operating Expenses

General and administrative expenses consist of executive staff, accounting and legal expenses, office space, general insurance and other administrative expenses. General and administrative expenses for the quarter ended September 30, 2018 were \$2,582,600 compared to \$2,427,352 for the same period in 2017, an increase of \$155,248 or 6.4%. The



increase was primarily due to additional insurance costs, employee and employee benefits costs.

Selling expenses consist of sales staff, commissions, marketing, travel and other selling related expenses. Selling expenses for the third quarter of 2018 were \$581,716 compared to \$503,415 for the same period in 2017, an increase of \$78,301 or 15.6%. This difference is due to larger sales commissions on chiller sales and increased trade show and sales activities.

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Research and development expenses consist of engineering and technical staff, materials, outside consulting and other related expenses. Research and development expenses in the quarter ended September 30, 2018 were \$281,094 compared to \$241,725 for the same period in 2017, an increase of \$39,369 or 16.3%. This increase was due to the Company's continued efforts in connection with the potential commercialization of its Ultra emissions technology for certain non-stationary applications.

Loss from Operations

Loss from operations for the third quarter of 2018 was \$562,312 compared to income of \$85,539 for the same period in 2017, a difference of \$647,851. The decrease was a result of increased operating expenses and lower gross profit as discussed above. Loss from operations for the third quarter of 2018 included non-recurring merger related expenses of \$75,768 in connection with litigation and depreciation and amortization expense on the energy producing sites of \$115,968.

Other Income (Expense), net

Other expense, net for the three months ended September 30, 2018 was \$9,531 compared to \$30,393 for the same period in 2017. Other income (expense) includes interest and other income and expense of \$4,168, interest expense of \$33,380 and an unrealized gain from market value fluctuation of our investment in EuroSite Power Inc.'s common stock of \$19,681 for the third quarter of 2018. For the same period in 2017, interest and other income and expense was \$14,849 and interest expense was \$45,242.

Provision for state income taxes

The provision for state income taxes in the third quarter of 2018 was \$3,815 and represents estimated income tax payments to various states for 2018.

Noncontrolling Interest

The income attributable to the noncontrolling interest was \$27,379 and \$27,935 for the three months ended September 30, 2018 and 2017, which represents the noncontrolling interest portion of American DG Energy's 51% owned subsidiary, ADGNY, LLC.

Net Income (Loss) Attributable to Tecogen Inc. and Comprehensive Income

Net loss attributable to Tecogen Inc. for the three months ended September 30, 2018 was \$603,037 compared to income of \$27,211 for the same period in 2017, an increase of \$630,248, year over year. Comprehensive income for the three months ended September 30, 2017 was \$66,572, a difference of \$669,609 when compared to net loss attributable to the Company for the same period in 2018, due to the unrealized gain on marketable equity securities in addition to the increased operating expenses discussed above.

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First Nine Months of 2018 Compared to First Nine Months of 2017

Revenues

Total revenues for the first nine months of 2018 were \$26,567,276 compared to \$22,938,503 for the same period in 2017, an increase of \$3,628,773 or 15.8%.

Segment 1 - Products and Services

Product revenues in the first nine months of 2018 were \$8,922,257 compared to \$8,349,159 for the same period in 2017, an increase of \$573,098 or 6.9%. This increase was a combination of an increase in chiller sales of \$1,833,177 and a decrease in cogeneration sales of \$1,260,079. We are seeing a marked increase in chiller interest due, in part, to the indoor agriculture market. Service revenues in the first nine months of 2018 were \$12,894,439, compared to \$12,259,037 for the same period in 2017, an increase of \$635,402 or 5.2%. This increase in the first nine months of 2018 is due to an increase in installation activity of \$785,513 and a decrease of \$150,111 in service contract revenues. While service contract revenue remains relatively constant, installation activity can vary widely depending on the status of various projects.

Segment 2 - Energy Production

Energy production revenues in the first nine months of 2018 were \$4,750,580, compared to \$2,330,307 for the same period in 2017. The 2017 energy production revenue represents revenues earned after May 19, 2017, the day after the acquisition of American DG Energy through September 30, 2017.

Cost of Sales

Cost of sales in the first nine months of 2018 was \$16,686,781 compared to \$13,779,179 for the same period in 2017, an increase of \$2,907,602, or 21.1%.

Segment 1 - Products and Services

Cost of sales for products and services in the first nine months of 2018 was \$13,858,376 compared to \$12,725,438 for the same period in 2017, an increase of \$1,132,938 or 8.9%. During the first nine months of 2018, our product and service gross margin was 36.5% compared to 38.3% for the same period in 2017, a 2% decrease. The decrease in margin was a result of the increase in lower margin installation revenue.

Segment 2 - Energy Production

Cost of sales for energy production in the first nine months of 2018 was \$2,828,405 compared to \$1,053,741 for the same period in 2017. The 2017 cost of sales represents costs associated with energy revenues earned from May 19, 2017, the date after acquisition of American DG Energy through September 30, 2017. During this period our gross margin for energy production was 40.5% for 2018 compared to 54.8% for 2017, with 2017 having an unusually high margin.

Operating Expenses

General and administrative expenses consist of executive staff, accounting and legal expenses, office space, general insurance and other administrative expenses. General and administrative expenses for the nine months ended September 30, 2018 were \$8,122,856 compared to \$7,042,500 for the same period in 2017, an increase of \$1,080,356 or 15.3%. The increase was mainly due to the increased salaries and overhead added as a result of the merger with ADGE in May 2017, with the nine months ended September 30, 2018 including a full nine months of ADGE revenue and expense whereas the same period in 2017 included only approximately four and a half months.

Selling expenses consist of sales staff, commissions, marketing, travel and other selling related expenses. Selling expenses for the nine months ended September 30, 2018 were \$1,892,229 compared to \$1,558,378 for the same period in 2017, an increase of \$333,851 or 21.4%. The increase is due to a larger sales team and increased trade show and sales activities.

Research and development expenses consist of engineering and technical staff, materials, outside consulting and other related expenses. Research and development expenses for the nine months ended September 30, 2018 were \$993,102 compared to \$641,064 for the same period in 2017, an increase of \$352,038 or 54.9%. This increase is due to the Company's continued

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efforts in connection with the potential commercialization of its Ultera emissions technology for certain non-stationary applications.

Loss from Operations

Loss from operations for the nine months ended September 30, 2018 was \$1,127,692 compared to a loss of \$82,618 for the same period in 2017, an increase of \$1,045,074. In addition to the expenses discussed above, loss from operations for the nine months ended September 30, 2018 included depreciation and amortization expense on the energy producing sites amounting to \$346,537.

Other Income (Expense), net

Other expense, net for the nine months ended September 30, 2018 was \$107,311 compared to \$93,993 for the same period in 2017. Other income (expense) includes interest and other income of \$7,926, interest expense of \$56,195, and unrealized loss on investment securities of \$59,042. For the same period in 2017, interest and other income was \$21,033 and interest expense was \$115,026. Unrealized loss on investment securities of \$184,998 was included in other comprehensive loss in 2017 in accordance with Generally Accepted Accounting Principles for that year. As of January 1, 2018, the Company presents such unrealized holding gains or losses in the other income (expense) section of the statement of operations.

Noncontrolling Interest

The income attributable to the noncontrolling interest was \$58,946 for the nine months ended September 30, 2018 which represents the noncontrolling interest portion of American DG Energy's 51% owned subsidiary, ADGNY, LLC. For the same period in 2017, income attributable to noncontrolling interest was \$44,933.

Net Loss Attributable to Tecogen Inc

Net loss attributable to Tecogen for the nine months ended September 30, 2018 was \$1,336,628 compared to \$221,544 for the same period in 2017, an increase of \$1,115,084. Comprehensive loss for the nine months ended September 30, 2017 was \$406,542, a difference of \$930,086 when compared to net loss attributable to Tecogen Inc for the same period in 2018, due to the unrealized loss on marketable equity securities in addition to the increased operating expenses discussed above.

Other Comprehensive Loss

The unrealized loss on securities of \$184,998 for the nine months ended September 30, 2017 represents a market fluctuation impacting the fair value of American DG Energy's remaining common stock ownership in its former partially owned subsidiary, EuroSite Power Inc. as of September 30, 2017. In accordance with an accounting standard update, unrealized holding gains and losses, as of January 1, 2018, are no longer accounted for as other comprehensive income or loss, but instead are included in the other income (expense) section of the statement of operations.

Liquidity and Capital Resources

Consolidated working capital at September 30, 2018 was \$11,584,670 compared to \$12,952,537 at December 31, 2017, a decrease of \$1,367,867. Included in working capital were cash and cash equivalents of \$136,717 at September 30, 2018, compared to \$1,673,072 in cash and cash equivalents at December 31, 2017, a decrease of \$1,536,355. The decrease in working capital and cash was the result of the pay off of related party debt, longer

collection periods and pre-buying for production.

Cash used in operating activities for the nine months ended September 30, 2018 was \$2,356,680 compared to \$1,996,871 for the same period in 2017. Our accounts receivable balance increased to \$11,548,663 at September 30, 2018 compared to \$9,536,673 at December 31, 2017, using \$1,840,150 of cash due to timing of billing, shipments, and collections. In addition, inventory and unbilled revenue increased using \$853,262 and \$245,892, respectively.

Accounts payable increased to \$5,716,426 as of September 30, 2018 from \$5,095,285 at December 31, 2017, with \$884 thousand purchased using \$262,925, in cash flow from operations. Accrued expenses increased to \$2,196,921 as of September 30, 2018 from \$1,416,976 as of December 31, 2017, providing \$779,945 of cash from operations. The Company expects accounts payable and accrued expenses to fluctuate with routine changes in operations.

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During the first nine months of 2018, our investing activities used \$101,868 of cash and included the acquisition of TTcogen LLC of \$442,746, offset by purchases of property and equipment of \$273,814, expenditures related to purchases of intangible assets of \$203,648 and cash paid for certain expenses associated with TTcogen LLC of \$900.

During the first nine months of 2018, our financing activities provided \$922,193 compared to \$128,918 for the same period in 2017. Financing activities for the first nine months of 2018 included proceeds from the revolving line of credit of \$12,550,590 offset by payments on this line of credit of \$10,696,691, debt issuance costs in connection with the revolving line of \$145,011 and the repayment of the loan due to related party of \$850,000 plus accrued interest.

As of September 30, 2018, the Company's backlog of product and installation projects, excluding service contracts, was \$15.7 million, consisting of \$7.5 million of purchase orders received by us and \$8.2 million of projects in which the customer's internal approval process is complete, financial resources have been allocated and the customer has made a firm verbal commitment that the order is in the process of execution. Backlog at the beginning of any period is not necessarily indicative of future performance. Our presentation of backlog may differ from other companies in our industry.

#### Significant Accounting Policies and Critical Estimates

The Company's significant accounting policies are discussed in the Notes to its respective Consolidated Financial Statements in its Annual Report on Form 10-K. The accounting policies and estimates that can have a significant impact upon the operating results, financial position and footnote disclosures of the Company are described in the above notes and in the respective Annual Report.

#### Significant New Accounting Standards or Updates Not Yet Effective

Except for the updates to the Company's revenue recognition policy for the adoption of ASU 2014-09, Revenue from Contracts with Customers (Topic 606), the Company's critical accounting policies have remained consistent as discussed in the Company's Annual Report on Form 10-K for the year ended December 31, 2017, filed with the SEC on March 21, 2018.

Revenue Recognition - Tecogen formally adopted ASU 2014-09, Revenue from Contracts with Customers effective January 1, 2018, however, the adoption of the new revenue standard did not have an impact on the Company's revenue recognition policy as performance obligations are satisfied in a similar recognition pattern.

See Note 1, Description of Business and Basis of Presentation, to the Condensed Consolidated Financial Statements included elsewhere in this Quarterly Report on Form 10-Q.

#### Seasonality

We expect that the majority of our heating system sales will be operational for the winter and the majority of our chilling system sales will be operational for the summer. Our cogeneration sales are not generally affected by the seasons. Our service team does experience higher demand in the warmer months when cooling is required. These chiller units are generally shut down in the winter and started up again in the spring. This chiller "busy season" for the service team generally runs from May through the end of September.

#### Off-Balance Sheet Arrangements

Currently, we do not have any material off-balance sheet arrangements, including any outstanding derivative financial instruments, off-balance sheet guarantees, interest rate swap transactions or foreign currency contracts. We do not engage in trading activities involving non-exchange traded contracts.

#### Item 3. Quantitative and Qualitative Disclosures About Market Risk.

Not applicable.





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Item 4. Controls and Procedures.

Management's Evaluation of Disclosure Controls and Procedures:

The Company maintains "disclosure controls and procedures," as such term is defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act, that are designed to provide reasonable assurance that information required to be disclosed by the Company in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms, and that such information is accumulated and communicated to the Company's management, including our principal executive officers and principal accounting officer, as appropriate, to allow timely decisions regarding required disclosure.

Our disclosure controls and procedures are designed to provide reasonable assurance that the control system's objectives will be met. Our management, including our Chief Executive Officer and Chief Accounting Officer, after evaluating the effectiveness of our disclosure controls and procedures as of the end of the period covered by this report, have concluded that our disclosure controls and procedures were not effective due to a material weakness with respect to a small number of individuals dealing with general controls over information technology. Management will continue to evaluate the above weaknesses. The Company is taking certain steps to remediate the weaknesses as resources become available.

Changes in Internal Control over Financial Reporting:

During the last half of 2017 and the first three quarters of 2018 the Company has been in the process of implementing a new computer system to remediate its material weakness with respect to the small number of individuals dealing with general controls over information technology. Management expects to have partially implemented this system by year end 2018.

PART II - OTHER INFORMATION

Item 1. Legal Proceedings

The Company is a party to a pending action in the United States District Court for the District of Massachusetts, described below, related to the merger with ADGE.

Massachusetts Superior Court Action

On or about February 6, 2017, ADGE, John Hatsopoulos, George N. Hatsopoulos, Charles T. Maxwell, Deanna M. Petersen, Christine Klaskin, John Rowe, Joan Giacinti, Elias Samaras, Tecogen, and the wholly owned subsidiary of the Company that merged with ADGE ("Merger Sub") were served with a Verified Complaint by William C. May ("May"), individually and on behalf of the other shareholders of ADGE as a class. The action was commenced in the Business Litigation Session of the Superior Court of the Commonwealth of Massachusetts, Civil Action No. 17-0390. The complaint alleged class action claims arising out of the proposed Merger. On May 31, 2017, May voluntarily dismissed the action and consolidated his claims with the pending federal action in the United States District Court for the District of Massachusetts, described below. If the complaint in the federal court is dismissed, it is possible that May or another plaintiff will recommence an action in state court with similar claims to those asserted by May.

United States District Court Action

On or about February 15, 2017, a lawsuit was filed in the United States District Court for the District of Massachusetts by Lee Vardakas ("Vardakas"), individually and on behalf of other stockholders of ADGE, naming ADGE, John N. Hatsopoulos, George N. Hatsopoulos, Benjamin Locke, Charles T. Maxwell, Deanne M. Petersen, Christine M. Klaskin, John Rowe, Joan Giacinti, Elias Samaras, Tecogen., Merger Sub., and Cassel Salpeter and Co., LLC, as defendants. The action is captioned Vardakas v. American DG Energy, Inc., Case No. 17-CV-10247(LTS). At the time Vardakas commenced the action, his complaint challenged the proposed Merger between Tecogen and ADGE. Following the consummation of the Merger (and the appointment of May, from the Massachusetts Superior Court Action, as lead plaintiff), Vardakas filed an Amended Class Action Complaint (the "Amended Complaint"). The Amended Complaint discontinued the claims against Cassel Salpeter & Co., LLC but asserted against the remaining defendants claims under Section 14(a) of the Securities Exchange Act of 1934 (the "Exchange Act") and SEC Rule 14a-9; claims against certain defendants for control person liability under § 20(a) of the Exchange Act (collectively, the "Federal Securities Law Claims"); and common law claims for breach of fiduciary duty and aiding and abetting (the

“State Law Claims”). The Federal Securities Law Claims allege, in substance, that defendants made material nondisclosure in the proxy statement about the process leading to the Merger and about the fairness opinion relied upon by ADGE’s Board of Directors in recommending the Merger to shareholders. The State Law Claims assert, in substance, that defendants breached their fiduciary duties in negotiating and approving the Merger, which, plaintiff claims, deprived ADGE’s nonaffiliated shareholders of fair value for their shares.

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On July 19, 2017, defendants moved to dismiss the Amended Complaint. In their motion papers, defendants contended that the Federal Securities Law Claims are not sufficiently pleaded and fail to state a viable claim. On February 28, 2018 the parties presented their oral arguments on the defendant's motion to dismiss. On March 2, 2018 the district court rendered its decision, dismissing the Federal Securities Law Claims, but retaining the State Law Claims. The district court exercised supplemental jurisdiction over the State Law Claims and ordered the Defendants to file an answer to the Amended Complaint addressing the State Law Claims. On March 12, 2018 the Defendants filed their first answer. On May 2, 2018, the Defendants filed their amended answer to assert further defenses, and the judge in the district court ordered the parties to hold a mediation session. The parties participated in mediation on June 19, 2018 and did not reach agreement regarding settlement.

On May 21, 2018, defendants filed a motion for judgment on the pleadings. A hearing on the motion for judgment on the pleadings was held on November 2, 2018, and the parties are awaiting a decision on the motion.

On July 6, 2018 plaintiff filed a motion for class certification and plaintiff and defendants filed briefs regarding class certification in August and September 2018. The parties are awaiting a hearing or a decision on the class certification motion if defendants' motion for judgment on the pleadings is not granted.

The Company believes that the lawsuit is without merit and intends to defend vigorously. The Amended Complaint does not specify the amount of damages claimed and the likelihood of an unfavorable outcome is not reasonably estimable.

Except as set forth above, as of the date of this filing the Company is currently not a party to any legal or administrative proceedings material to the Company's financial statements and is not aware of any pending or threatened legal or administrative proceeding that is material to the Company's financial statement.

Item 1A. Risk Factors

In addition to the other information set forth in this report, you should carefully consider the factors discussed under "Risk Factors" in our Annual Report on Form 10-K for our fiscal year ended December 31, 2017. The risks discussed in our Annual Report on Form 10-K could materially affect our business, financial condition and future results. The risks described in our Annual Report on Form 10-K are not the only risks facing us. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially and adversely affect our business, financial condition or operating results.

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Item 6. Exhibits

Exhibit No. Description of Exhibit

- 2.1 Agreement and Plan of Merger, dated as of November 1, 2016, by and among Tecogen Inc., American DG Energy Inc., and ADGE.Tecogen Merger Sub Inc. (Incorporated by reference to exhibit 2.1 to the registrant's Current Report on Form 8-K, as filed with the SEC on November 2, 2016).
- 2.2 Amendment No. 1 to the Agreement and Plan of Merger, dated as of March 23, 2017, by and among Tecogen Inc., American DG Energy Inc. and ADGE.Tecogen Merger Sub Inc. (Incorporated by reference to exhibit 2.2 to the registrant's Current Report on Form 8-K, as filed with the SEC on March 24, 2017).
- 3.1 Amended and Restated Certificate of Incorporation (Incorporated by reference to exhibit 3.1 to the registrant's Registration Statement on Form S-1, as amended (Registration No. 333-193791), filed with the SEC on June 27, 2014).
- 3.2 Amended and Restated Bylaws (Incorporated by reference to exhibit 3.2 to the registrant's Registration Statement on Form S-1, as amended (Registration No. 333-193791), filed with the SEC on June 27, 2014).
- 4.1 Specimen Stock Certificate of Tecogen, Inc. (Incorporated by reference to exhibit 4.1 to the registrant's Registration Statement on Form S-1, as amended (Registration No. 333-193791), filed with the SEC on June 27, 2014).
- 4.3+ Form of Stock Option Agreement (Incorporated by reference to exhibit 4.3 to the registrant's Registration Statement on Form S-1, as amended (Registration No. 333-193791), filed with the SEC on June 27, 2014).
- 10.1+ Tecogen Inc. 2006 Stock Incentive Plan, as amended and restated on November 1, 2016 with stockholder approval on June 29, 2017 (Incorporated by reference to exhibit 10.1 to the registrant's Annual Report on Form 10-K, as filed with the SEC on March 21, 2018).
- 10.7 Lease Agreement between Atlantic-Waltham Investment II, LLC, and Tecogen Inc., dated May 14, 2008 (Incorporated by reference to exhibit 10.7 to the registrant's Registration Statement on Form S-1, as amended (Registration No. 333-193791), filed with the SEC on June 27, 2014).
- 10.8 Second Amendment to Lease between Atlantic-Waltham Investment II, LLC, and Tecogen Inc., dated January 16, 2013 (Incorporated by reference to exhibit 10.2 to the registrant's Quarterly Report on Form 10-Q, as filed with the SEC on May 15, 2014).
- 10.13 Exclusive License Agreement between Tecogen Inc. and the Wisconsin Alumni Research Foundation, dated February 5, 2007 (Incorporated by reference to exhibit 10.13 to the registrant's Registration Statement on Form S-1, as amended (Registration No. 333-193791), filed with the SEC on June 27, 2014).
- 10.40+ Employment Agreement dated December 1, 2016 between registrant and David A. Garrison (Incorporated by reference to exhibit 99.1 from the registrant's Current Report on Form 8-K, as filed with the SEC on December 2, 2016).
- 10.41 Promissory Note-Line of Credit issued on December 22, 2016 by American DG Energy Inc. to John Hatsopoulos (Incorporated by reference to American DG Energy Inc.'s Current Report on Form 8-K (No. 001-34493), as filed with the SEC on December 28, 2016).
- 10.42+ Advisory Agreement, dated January 3, 2018, between Tecogen Inc. and John N. Hatsopoulos (Incorporated by reference to exhibit 10.1 to the registrant's Current Report on Form 8-K, as filed with the SEC on January 8, 2018).
- 10.43 Research and Development Contract between Southwest Research Institute and Tecogen Inc. (Incorporated by reference to exhibit 10.1 to the registrant's Current Report on Form 8-K, as filed with the SEC on January 9, 2018).
- 10.44 Membership Interest and Wind-Down Agreement between Tedom USA Inc., Tedom a.s., TTcogen LLC and Tecogen Inc. dated as of March 27, 2018 (Incorporated by reference to exhibit 10.1 to the registrant's Current Report on Form 8-K, as filed with the SEC on March 30, 2018).
- 10.45 Credit Agreement with Webster Business Credit Corporation, dated as of May 4, 2018 (Incorporated by reference to exhibit 10.45 to the registrant's Quarterly Report on Form 10-Q, as filed with the SEC on August 14, 2018).

31.1\* Rule 13a-14(a) Certification of Chief Executive Officer  
31.2\* Rule 13a-14(a) Certification of Chief Accounting Officer  
32.1\* Section 1350 Certifications of Chief Executive Officer and Chief Accounting Officer  
101.INS\*\* XBRL Instance Document  
101.SCH\*\* XBRL Taxonomy Extension Schema  
100.CAL\*\* XBRL Taxonomy Extension Calculation Linkbase

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100.DEF\*\* XBRL Taxonomy Extension Definition Linkbase

101.LAB\*\* XBRL Taxonomy Extension Label Linkbase

101.PRE\*\* XBRL Taxonomy Extension Presentation Linkbase

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\* Filed herewith

\*\* Furnished herewith

+ Compensatory plan or arrangement

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TECOGEN INC.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, on November 13, 2018.

TECOGEN INC.

(Registrant)

By: /s/ Benjamin M. Locke

Chief Executive Officer

(Principal Executive

Officer)

By: /s/ Bonnie J. Brown

Chief Accounting Officer,

Treasurer and Secretary

(Principal Accounting

Officer)