

Advanced Emissions Solutions, Inc.

Advancing Cleaner Energy

### First Quarter 2017 Results Call May 9, 2017

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This presentation includes forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, which provides a "safe harbor" for such statements in certain circumstances. The forward-looking statements include statements or expectations regarding future growth, amount and timing of production and sale of Refined Coal ("RC"); Tinuum Group, LLC and Tinuum Services, LLC cash flow and their ability to make distributions, and Tinuum Group's ability to lease or sell remaining RC facilities; future revenues, expenses, cash flow, liquidity, and other financial and accounting measures; potential future value of our stock; our ability to commercialize EC products and intellectual property; expectations about the timing and amount of future dividend payments; completion of our announced tender offer; returning value to stockholders; and related matters. These statements are based on current expectations, estimates, projections, beliefs and assumptions of our management. Such statements involve significant risks and uncertainties. Actual events or results could differ materially from those discussed in the forward-looking statements as a result of various factors, including but not limited to, changes and timing in laws, regulations, IRS interpretations or guidance, accounting rules and any pending court decisions, legal challenges to or repeal of them; changes in prices, economic conditions and market demand; the ability of the RC facilities to produce and sell coal that gualifies for tax credits; the timing, terms and changes in contracts for RC facilities, or failure to lease or sell RC facilities; impact of competition; availability, cost of and demand for alternative tax credit vehicles and other technologies; technical, start-up and operational difficulties; availability of raw materials; loss of key personnel; the value of our products, technologies and intellectual property to customers and strategic investors; the value placed on our stock price as a result of anticipated future cash flows; intellectual property infringement claims from third parties; seasonality and other factors discussed in greater detail in our filings with the SEC. You are cautioned not to place undue reliance on such statements and to consult our SEC filings for additional risks and uncertainties that may apply to our business and the ownership of our securities. Our forward-looking statements are presented as of the date made, and we disclaim any duty to update such statements unless required by law to do so.



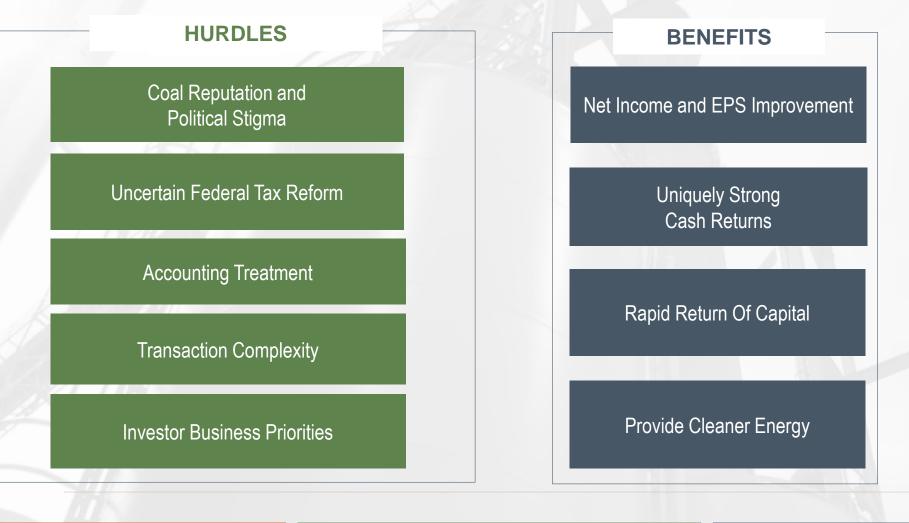
### FIRST QUARTER AND RECENT HIGHLIGHTS

- Tinuum distributions to ADES were \$14.7 million during the first quarter of 2017, an increase of \$9.8 million from the comparable quarter in 2016
- Completed the lease of a RC facility in late March bringing the number of invested facilities to 14 as of the end of the first quarter
- Continued validation and expansion of chemicals business, resulting in 426% revenue growth quarter-over-quarter
- Reduced indirect operating costs by 38% compared to first quarter of 2016
- Cash position increased by \$15.2 million compared to previous quarter, ending with \$28.4 million of cash and cash equivalents as of March 31, 2017
- Net income of \$8.7 million, up 99% quarter-over-quarter
- Future projected cash flows from Tinuum updated to between \$275 million and \$300 million through the end of 2021
- Announced tender offer of up to \$10 million
- Expected June announcement of \$0.25 per share recurring quarterly dividend



### **REFINED COAL ENVIRONMENT**

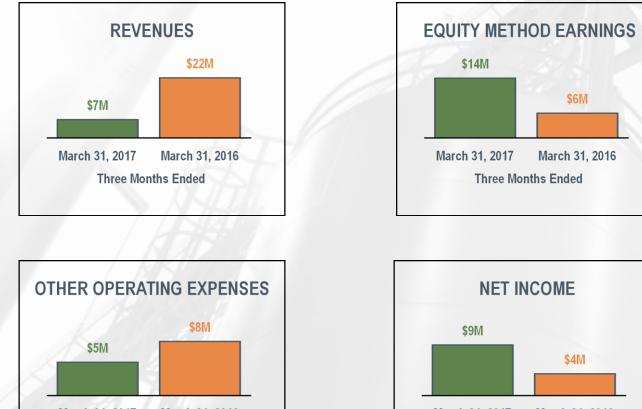
The refined coal business is proven and yields many benefits to the Utilities, Investors and the environment, however there are hurdles to overcome



# FINANCIALS



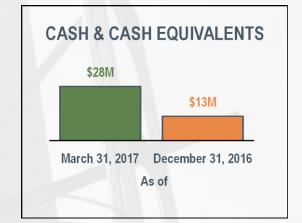
\$6M













	Three Months Ended March 31,				
(In thousands)	2017		2016		
RC segment operating income	\$ 15,025	\$	7,870		
EC segment operating income	273		4,631		
Segment operating income	15,298		12,501		
Adjustments to reconcile to net income					
Corporate payroll and benefits	(1,810)		(3,134)		
Corporate rent and occupancy	(26)		(211)		
Corporate legal and professional fees	(998)		(2,928)		
Corporate general and administrative	(859)		(775)		
Corporate depreciation and amortization	(207)		(116)		
Corporate interest (expense) income, net	(224)		(910)		
Other income (expense), net	2,900		2		
Income tax expense	(5,386)		(53)		
Net income	\$ 8,688	\$	4,376		



### TINUUM GROUP & ADES: CASH FLOW UPDATE

Cash Flow Update	Three Months Ended March 31,					
(In thousands)		2017	2016			
Tinuum Group						
Cash and cash equivalents, beginning of year	\$	10,897	\$	6,183		
Cash provided by (used in):						
Operating activities		16,753		10,140		
Investing activities		(1,796)		(2,029)		
Financing activities		(15,140)		(4,405)		
Net change in cash and cash equivalents		(183)		3,706		
Cash and cash equivalents, end of period	\$	10,714	\$	9,889		
Distributions to ADES	\$	13,175	\$	3,400		
ADES		VIQ VI				
Cash and cash equivalents and restricted cash, beginning of year	\$	26,944	\$	20,973		
Cash provided by (used in):						
Operating activities		(2,820)		(1,858)		
Investing activities		13,033		1,786		
Financing activities		(179)		(3,659)		
Net change in cash and cash equivalents and restricted cash		10,034		(3,731)		
Cash and cash equivalents and restricted cash, end of period	\$	36,978	\$	17,242		

Note: ADES owns 42.5% of Tinuum Group and accounts for its investment under the equity method of accounting

# REFINED COAL





### REFINED COAL FACILITIES TODAY AND TOMORROW

### **FULL-TIME OPERATIONS ROADMAP**

Not Operating and Not Invested

8 RC facilities – installed and waiting for investor

6 RC facilities – yet to be installed

POTENTIAL

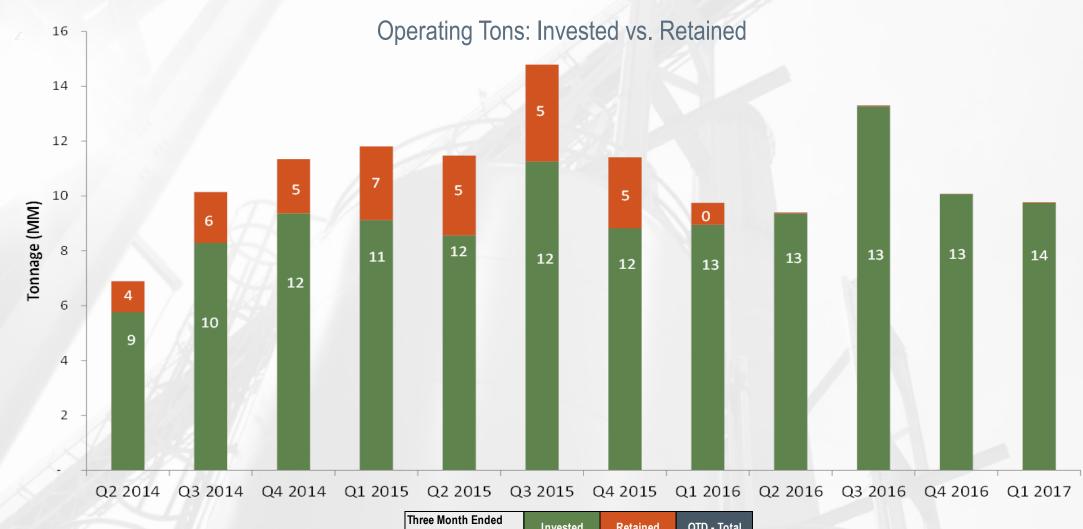
28 RC facilities (~100 MT/year)

14 RC facilities leased/sold (40-50 MT/year)

**Operating and Invested** 

RC Facility information as of March 31, 2017

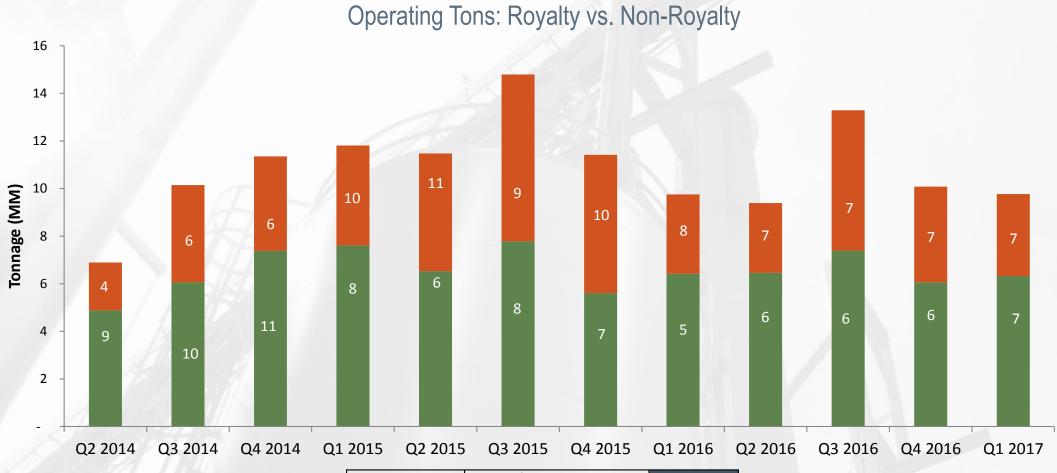
2017 - 2021



Three Month Ended March 31, 2017	Invested	Retained	QTD - Total
Tonnage <sup>(1)</sup>	9,746	21	9,768
Count (#)	14	-	14

Note: Numbers within bar graph represent the number of facilities per category as of the end of each quarter presented

(1) Tonnage information is based upon RC production for the three months ended March 31, 2017 (in thousands)



Three Month Ended	Operating Tons		QTD - Total	
March 31, 2017	Royalty	Non-Royalty		
Tonnage <sup>(1)</sup>	3,441	6,327	9,768	
Count (#) <sup>(2)</sup>	7	7	14	

Note: Numbers within bar graph represent the number of facilities per category as of the end of each quarter presented (1) Tonnage information is based upon RC production for the three month ended March 31, 2017 (in thousands) (2) Counts are based upon the number of facilities of which a royalty has been earned during the period

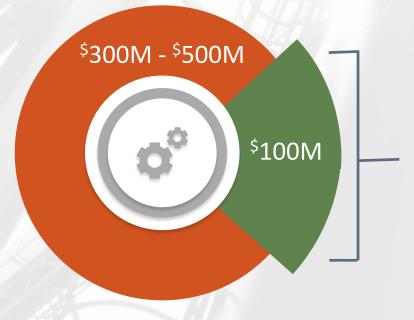
# EMISSIONS CONTROL



### EMISSIONS CONTROL: CURRENT OPPORTUNITY

### **CURRENT FOCUS - MERCURY CONTROL**

- Mercury control regulation since 2015/2016; with large capital investments complete
- Recurring consumables needed to control mercury



### MARKET

Consumable market is \$400M - \$600M annually <sup>(1)</sup>

\$100M annual target market<sup>(1)</sup>

### **COMPETITIVE DIFFERENTIATORS**

- Cost effective and simple alternative
- Less equipment corrosion
- Turn-key with world-renowned experts

### **COMPETITIVE ADVANTAGES**

- Patented technology
- Low operating cost model
- Recurring revenue model

<sup>(1)</sup> Total consumables market and target market estimated annual revenues based on the Company's internal estimates from current products for the mercury control consumables market

## Future Cash Flows for ADES & 2017 Priorities

**Projected Future ADES Cash Flows** 

### PROJECTED CASH FLOWS (in millions)

- Based on 14 invested facilities as of March 31, 2017
- Results in projected cash flows of \$275M to \$300M to ADES in total through 2021<sup>(1)</sup>
- Each additional refined coal facility could add between \$5 -7 million annually
- Closed an additional RC facility in March 2017

(1) The projections is based on the following four key assumptions: 1) Tinuum Group continues to not operate retained facilities;
2) Tinuum Group does not have material CapEx or unusual operating expenses; 3) tax equity lease renewals are not terminated or repriced; 4) coal-fired generation remains consistent







Stock buy-back announced to repurchase up to \$10 million in common stock



Expected \$0.25 per share recurring quarterly dividend starting in June Tax Asset Protection Plan designed to protect the Company's ability to utilize its net operating losses and tax credits

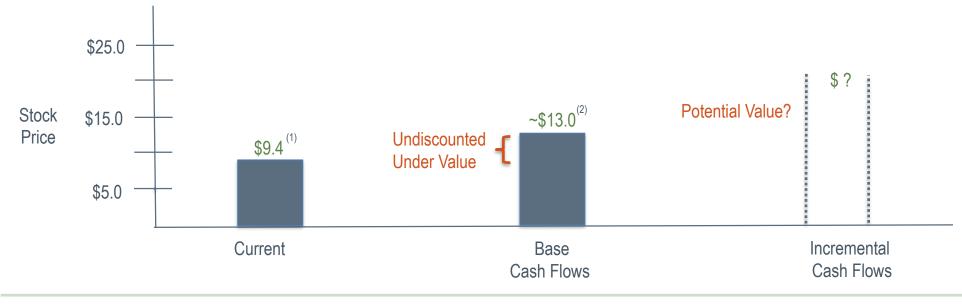
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Evaluate accretive M&A alternatives within dynamic market



### CURRENT CASH FLOWS VS. STOCK PRICE



Undiscounted Under Value:

Current stock price may be undervalued based on current ADES cash flows of \$275M to \$300M through 2021

<sup>(1)</sup> Stock price based on proximity to 5/5/17 closing price

<sup>(2)</sup> Stock price calculated based on cash flow from current business of \$275M to \$300M divided by outstanding shares.

#### Potential Value:

Ability to add up to 14 more Refined Coal facilities; each new refined coal facility would add between \$5M-\$7M annually; 1 new facility added in 2017 would add approximately \$30M of cash or \$1 to \$2 per share

Ability to generate cash from expansion of consumables market share and untapped IP within Emissions Control business







### **OBTAIN NEW TAX EQUITY INVESTORS FOR <u>REFINED COAL:</u>**

Nurture current & add additional sales channels

Dedicate additional resources

Leverage improving political and refined coal tax equity market



### **GROW <u>EMISSIONS CONTROL</u> & CONTINUE TRANSFORMATION:**

Sell recently commercialized chemicals Further monetize valuable intellectual property Explore targeted M&A



### **RETURN CAPITAL TO STOCKHOLDERS:**

Evaluate potential stock buy-backs

Declare dividend of \$0.25 in Q2

Evaluate potential for additional dividends (one-time and/or incremental recurring)

# APPENDIX

## Appendix A: 10-Q Balance Sheet<sup>(1)</sup>

			s of	
'in thousands, except share data)	M	arch 31, 2017	Decer	nber 31, 2016
ASSETS				
Current assets:				
Cash and cash equivalents	\$	28,442	\$	13,208
Restricted cash		8,536		13,736
Receivables, net		1,954		8,648
Receivables, related parties, net		1,755		1,934
Costs in excess of billings on uncompleted contracts		_		25
Prepaid expenses and other assets		1,736		1,357
Total current assets		42,423		38,908
Property and equipment, net of accumulated depreciation of \$1,476 and \$2,920, respectively		504		735
Cost method investment		1,016		1,016
Equity method investments		3,097		3,959
Deferred tax assets		56,010		61,396
Other long-term assets		1,725		1,282
Total Assets	\$	104,775	\$	107,296
IABILITIES AND STOCKHOLDERS' EQUITY				
Current liabilities:				
Accounts payable	\$	1,202	\$	1,920
Accrued payroll and related liabilities		984		2,121
Billings in excess of costs on uncompleted contracts		4,200		4,947
Legal settlements and accruals		4,591		10,706
Other current liabilities		3,965		4,017
Total current liabilities		14,942		23,711
Legal settlements and accruals, long-term		2,371		5,382
Other long-term liabilities		2,181		2,038
Total Liabilities	_	19,494		31,131
Commitments and contingencies (Note 6)		/		
Stockholders' equity:				
Preferred stock: par value of \$.001 per share, 50,000,000 shares authorized, none outstanding		_		
Common stock: par value of \$.001 per share, 100,000,000 shares authorized, 22,478,711 and 22,322,022 shares				
issued, and 22,072,056 and 22,024,675 shares outstanding at March 31, 2017 and December 31, 2016,				
respectively		22		22
Additional paid-in capital		119,922		119,494
Accumulated deficit	_	(34,663)	100	(43,351)
Total stockholders' equity		85,281		76,165
Total Liabilities and Stockholders' Equity	\$	104,775	\$	107,296

## Appendix B: 10-Q Income Statement<sup>(1)</sup>

	Three Months Ended March 31,			March 31,
in thousands, except per share data and percentages)		2017		2016
Revenues:				
Equipment sales	\$	5,108	\$	21,727
Chemicals		2,281		434
Consulting services and other		_		196
Fotal revenues		7,389		22,357
Operating expenses:				
Equipment sales cost of revenue, exclusive of depreciation and amortization		4,143		17,034
Chemicals cost of revenue, exclusive of depreciation and amortization		1,758		142
Consulting services cost of revenue, exclusive of depreciation and amortization		_		135
Payroll and benefits		2,182		3,802
Rent and occupancy		45		394
Legal and professional fees		1,035		2,983
General and administrative		1,263		745
Research and development, net		192		202
Depreciation and amortization		482		231
Fotal operating expenses		11,100	_	25,668
Dperating loss	-	(3,711)	_	(3,311)
Other income (expense):			_	
Earnings from equity method investments		13,814		5,577
Royalties, related party		1,755		1,189
Interest expense		(693)		(1,964)
Revision in estimated royalty indemnity liability		2,900		
Other income		9		2,938
Fotal other income	2	17,785		7,740
ncome before income tax expense		14,074		4,429
ncome tax expense		5,386		53
Vet income	\$	8,688	\$	4,376
Earnings per common share (Note 1):		-,	-	.,
Basic	\$	0.39	\$	0.20
Diluted	\$	0.39	\$	0.20
Weighted-average number of common shares outstanding:	+	0.00	-	0.20
Basic		22,056		21,849
Diluted		22,000		22,176



	Three Months Ended March 31,				
(in thousands)	1	2017	201	16	
Cash flows from operating activities					
Net income	\$	8,688	\$	4,376	
Adjustments to reconcile net income to net cash used in operating activities:					
Depreciation and amortization		482		231	
Stock-based compensation expense		607		636	
Earnings from equity method investments		(13,814)		(5,577)	
Gain on sale of equity method investment		-		(2,078)	
Gain on settlement of note payable		-		(869)	
Other non-cash items, net		455		550	
Changes in operating assets and liabilities:					
Receivables		6,695		1,012	
Related party receivables		179		1,124	
Prepaid expenses and other assets		(415)		496	
Costs incurred on uncompleted contracts		3,883		14,613	
Deferred tax asset, net		5,386		_	
Other long-term assets		(805)		(1,104)	
Accounts payable		(717)		(250)	
Accrued payroll and related liabilities		(1,137)		(444)	
Other current liabilities		(219)		(1,071)	
Billings on uncompleted contracts		(4,605)		(17,021)	
Advance deposit, related party		_		(396)	
Other long-term liabilities		143		242	
Legal settlements and accruals		(9,126)		(1,228)	
Distributions from equity method investees, return on investment		1,500		4,900	
Net cash used in operating activities		(2,820)		(1,858)	

### Appendix C: 10-Q Cash Flow (continued)<sup>(1)</sup>

		Three Months Ended March 31,				
(in thousands)	1	2017		2016		
Cash flows from investing activities						
Distributions from equity method investees in excess of cumulative earnings		13,175		_		
Maturity of investment securities, restricted		-		336		
Acquisition of property and equipment, net		(142)		(100)		
Contributions to equity method investees		_		(223)		
Proceeds from sale of equity method investment		_		1,773		
Net cash provided by investing activities		13,033		1,786		
Cash flows from financing activities						
Borrowings on Line of Credit		808		_		
Repayments on Line of Credit		(808)		_		
Repayments on short-term borrowings and notes payable, related party		_		(2,996)		
Short-term borrowing loan costs		_		(579)		
Repurchase of shares to satisfy tax withholdings		(179)		(84)		
Net cash used in financing activities		(179)		(3,659)		
Increase (decrease) in Cash and Cash Equivalents and Restricted Cash		10,034		(3,731)		
Cash and Cash Equivalents and Restricted Cash, beginning of period		26,944		20,973		
Cash and Cash Equivalents and Restricted Cash, end of period	\$	36,978	\$	17,242		
Supplemental disclosure of cash flow information:						
Cash paid for interest	\$	191	\$	1,029		
Cash paid (refunded) for income taxes	\$	100	\$	(89)		
Supplemental disclosure of non-cash investing and financing activities:						
Settlement of RCM6 note payable	\$	_	\$	13,234		
Non-cash reduction of equity method investment	\$	_	\$	11,156		