

First Quarter 2017 Results Call May 9, 2017





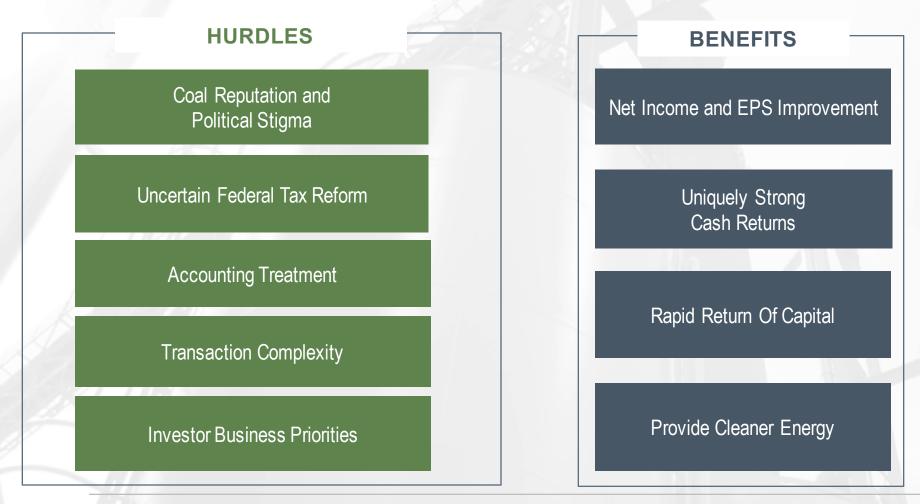
This presentation includes forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, which provides a "safe harbor" for such statements in certain circumstances. The forward-looking statements include statements or expectations regarding future growth, amount 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 qualifies 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

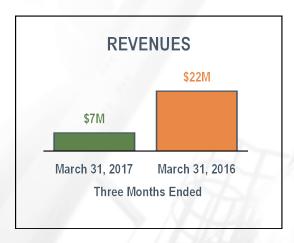
REFINED COAL ENVIRONMENT

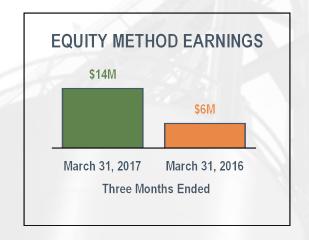
The reduced refined coal business is proven and yields many benefits to the Utilities, Investors and the environment, however there are hurdles to overcome



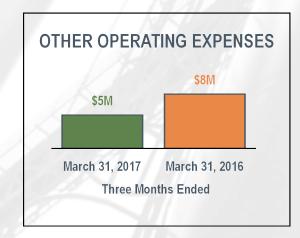


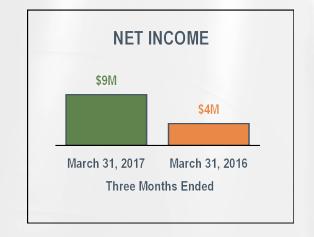
FINANCIAL HIGHLIGHTS

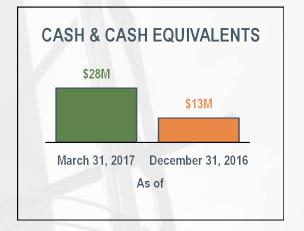














		Three Months Ended March 31,				
(In thousands)		2017		2016		
RC segment operating income	\$	15,025	\$	7,870		
EC segment operating income		273		4,631		
Segment operating income		15,298		12,501		
Adjustments to reconcile to net income						
Corporate payroll and benefits		(1,810)		(3,134)		
Corporate 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	70///	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							
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			







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

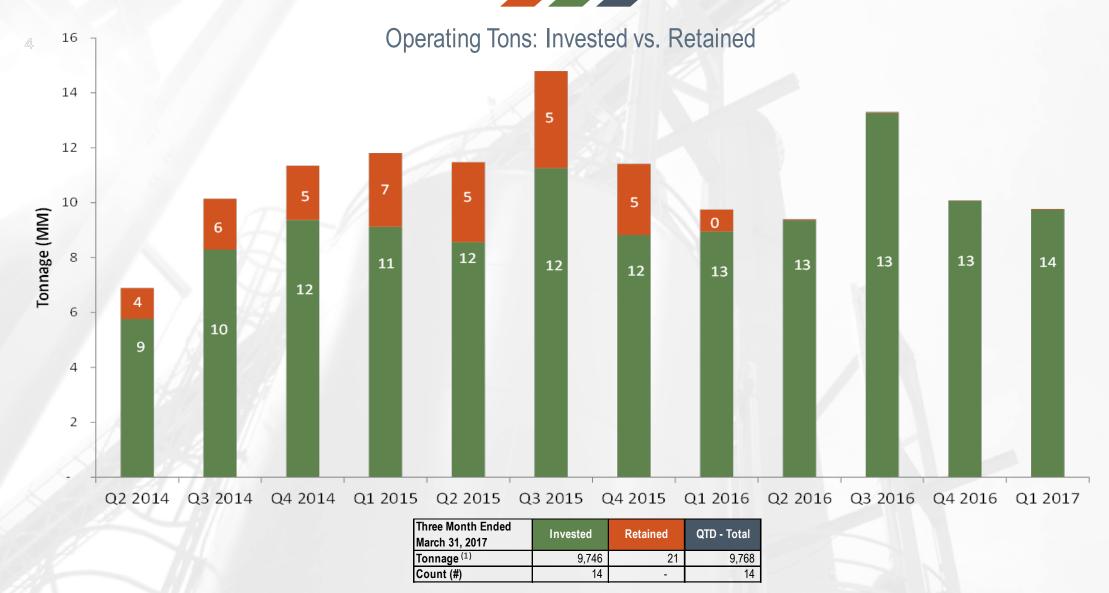
Operating and Invested

leased/sold (40-50 MT/year)





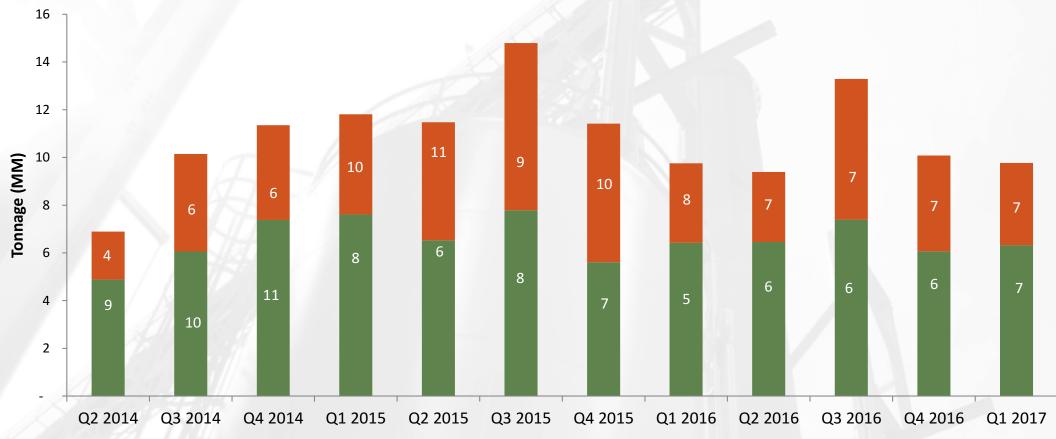




Note: Numbers within bar graph represent the number of facilities per category as of the end of each quarter presented

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

Operating Tons: Royalty vs. Non-Royalty



Three Month Ended	Operatii	ng Tons	QTD - Total		
March 31, 2017	Royalty	Non-Royalty	QID - Iolai		
Tonnage ⁽¹⁾	3,441	6,327	9,768		
Count (#) (2)	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: CURRENT OPPORTUNITY

CURRENT FOCUS - MERCURY CONTROL

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



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

⁽¹⁾ 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



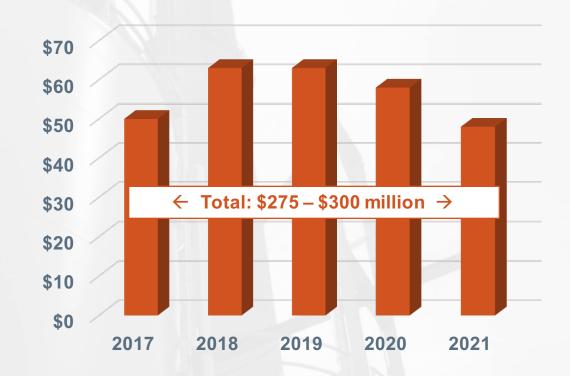
Future Cash Flows for ADES & 2017 Priorities



PROJECTED 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 (1)
- 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

CAPITALALLOCATION



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

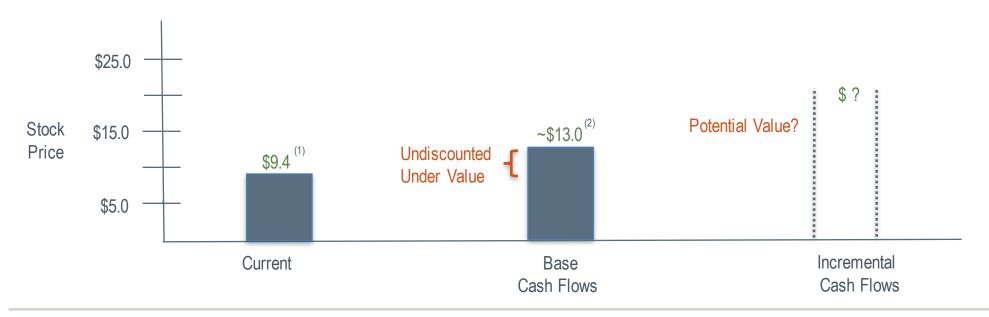


Evaluate accretive

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

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

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

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







OBTAIN NEW TAX EQUITY INVESTORS FOR REFINED COAL:

Nurture current & add additional sales channels

Dedicate additional resources

Leverage improving political and refined coal tax equity market



GROW EMISSIONS CONTROL & 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 A: 10-Q Balance Sheet⁽¹⁾

			As of	
(in thousands, except share data)	Ma	rch 31, 2017	Decen	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		- 1		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
LIABILITIES 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	3			
issued, and 22,072,056 and 22,024,675 shares outstanding at March 31, 2017 and December 31, 2016,				4
respectively		22		22
Additional paid-in capital		119,922		119,494
Accumulated deficit		(34,663)		(43,351
Total stockholders' equity		85,281		76,165
Total Liabilities and Stockholders' Equity	9	104,775	\$	107,296

⁽¹⁾ See complete, unaudited Condensed, Consolidated Financial Statements and Notes related thereto within the Quarterly Report on Form 10-Q for the period ended March 31, 2017.

Appendix B: 10-Q Income Statement⁽¹⁾

	Three Months Ended March 31,			March 31,
(in thousands, except per share data and percentages)		2017		2016
Revenues:	2			
Equipment sales	\$	5,108	\$	21,727
Chemicals		2,281		434
Consulting services and other		_		196
Total revenues		7,389		22,357
Operating expenses:		1 3		
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
Total operating expenses	1	11,100		25,668
Operating 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
Total other income	7	17,785	_	7,740
Income before income tax expense	- I	14,074	_	4,429
Income tax expense		5,386		53
Net income	\$	8,688	\$	4,376
Earnings per common share (Note 1):	<u> </u>			
Basic	\$	0.39	\$	0.20
Diluted	\$	0.39	\$	0.20
Weighted-average number of common shares outstanding:				
Basic		22,056		21,849
Diluted		22,243		22,176

⁽¹⁾ See complete, unaudited Condensed, Consolidated Financial Statements and Notes related thereto within the Quarterly Report on Form 10-Q for the period ended March 31, 2017.

Appendix C: 10-Q Cash Flow⁽¹⁾

	Three Months Ended March 31,			
(in thousands)	2017		2016	
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	<u> </u>	-	(2,078)	
Gain on settlement of note payable			(869)	
Other non-cash items, net	458		550	
Changes in operating assets and liabilities:				
Receivables	6,698		1,012	
Related party receivables	179)	1,124	
Prepaid expenses and other assets	(415	j)	496	
Costs incurred on uncompleted contracts	3,883		14,613	
Deferred tax asset, net	5,386	;	ALLEY	
Other long-term assets	(808)		(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	5)	(1,228	
Distributions from equity method investees, return on investment	1,500	,	4,900	
Net cash used in operating activities	(2,820		(1,858	

⁽¹⁾ See complete, unaudited Condensed, Consolidated Financial Statements and Notes related thereto within the Quarterly Report on Form 10-Q for the period ended March 31, 2017.

Appendix C: 10-Q Cash Flow (continued)⁽¹⁾

		Three Months Ended March 31,				
(in thousands)		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		7 —		(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	701112					
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	101	(179)		(3,659)		
Increase (decrease) in Cash and Cash Equivalents and Restricted Cash	1/1	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:	U					
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	\$	L -	\$	11,156		

⁽¹⁾ See complete, unaudited Condensed, Consolidated Financial Statements and Notes related thereto within the Quarterly Report on Form 10-Q for the period ended March 31, 2017.