

Second Quarter 2019 Results Call August 6, 2019







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 cash flows from refined coal ("RC"); potential RC facility transactions with tax-equity investors and estimated tonnage associated with such potential transaction; required capital investment to transition existing facilities to operating status; opportunities for optimizing operations including higher margin and higher growth activities; improving integration and other potential growth opportunities; and evaluation of additional ways to return capital to stockholders. 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; tax equity lease renewals are not terminated or repriced; 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; customer demand for our products; competition within the industries in which we operate; availability of opportunities to further grow our business; loss of key personnel; 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.



- RC invested facilities increased to 21 as of June 30, 2019; new facility is royalty bearing to ADES.
- Based on the 21 invested RC facilities as of June 30, 2019 and cash distributions received during the three months ended June 30, 2019, expected future net RC cash flows to ADES are now projected to be between \$175 million and \$200 million through year end 2021.
- RC Segment operating income was \$24.6 million, a year-over-year increase of 35%
- Tinuum distributions to ADES were \$18.6 million during the second quarter of 2019, a year-over-year increase of 26%
- Recognized PGI segment revenue of \$11.0 million an increase from \$0.8 million during the second quarter of 2018, driven by consumables
- Net income for the three months ended June 30, 2019 of \$8.1 million or \$0.44 per diluted share
- Ended the second quarter 2019 with a total cash balance of \$20.4 million
 - Made quarterly principal payments of \$10.0 million during the second quarter on the Company's \$70.0 million term loan
 - Returned \$2.1 million to shareholders during the three months ended June 30, 2019 through share repurchases
- Continued quarterly dividend; declared second quarter dividend of \$0.25 per share, paid in June 2019, and declared 2019 third quarter \$0.25 per share dividend payable on September 6, 2019 to stockholders of record as of business close on August 19, 2019

FINANCIALS

FINANCIAL HIGHLIGHTS











CASH, CASH EQUIVALENTS & RESTRICTED



(1) EBITDA is a non-GAAP measure. See Appendix for definitions and reconciliations.

REFINED COAL



REFINED COAL FACILITIES TODAY AND TOMORROW

FULL-TIME OPERATIONS ROADMAP



RC Facility information as of June 30, 2019

2019 - 2021

- (1) Certain facilities would require capital investment to transition to operating status
- (2) Two facilities were in the engineering and construction phase
- (3) One facility that is not operating was placed in service in 2009 and available Section 45 tax credit generation ability for this facility will expire during the year 2019
- (4) One facility that is operating was placed in service in 2009 and available Section 45 tax credit generation ability for this facility will expire during the year 2019

Future Cash Flows for ADES & 2019 Priorities



- Based on 21 invested facilities as of June 30, 2019 and includes all net RC cash flows of ADES ⁽¹⁾
- Results in expected future net RC cash flows of \$175 million to \$200 million to ADES in total through 2021 ⁽²⁾
- There are currently 7 non-operating facilities awaiting a tax-equity investor
- Each additional refined coal facility could add between \$5-7 million annually to ADES ⁽³⁾
- We believe there remains opportunity to secure additional tax equity investors before PTC expiration currently scheduled for December 31, 2021

EXPECTED FUTURE CASH FLOWS FROM RC BUSINESS ⁽¹⁾ (in millions)



Net projected RC cash flows include the impact of all expected Tinuum distributions and royalty payments offset by the Company's federal and state tax payments as well as 453A interest payments

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

B) Estimates based on coal-fired utility that burns 4.0 million tons per year



GROWTH OPPORTUNITIES

| | DAY | TOMORROW | | | | | |
|---|--|---|---|--|--|--|--|
| Mercury Removal | ket share and margin | Pursue higher margin Broader Water Market | and higher growth Adjacent Segments International Expansi | | | | |
| Positioned for continued profitable growth due to maintained market leadership and stable demand as prices stabilize Gain additional share through premium products, cost advantage and RC transition | Carbon Solutions can and does compete, albeit minimally, without any incremental plant investment However, additional feedstock sourcing is necessary | Opportunity to leverage Carbon Solutions' best-in- class production facility and make investments to capture broader commercial and consumer market | Regenerated Carbon Chemicals and Food International Mercury Control | | | | |
| CURRENT PLAN | T CONFIGURATION | INVESTME | NT NEEDED | | | | |



- Since the start of the Capital Allocation program ⁽¹⁾, we have paid \$45.0 million in dividends and utilized capital of \$44.6 million to repurchase shares
- The Company entered a three-year, \$70 million term loan in November 2018 to fund the acquisition of Carbon Solutions which requires quarterly principal repayments of \$6.0 million. We expect to pay off this loan in less than the stated three-year term funded by Tinuum cash flows
- We are currently committed to our dividend program and will continue to leverage opportunistic share repurchases
- As of June 30, 2019 the Company made \$16 million in debt principal payments during 2019



(1) The Company started its current Capital Allocation program in the second quarter of 2017.





INCREASE AND OPTIMIZE <u>REFINED COAL</u> NET CASH FLOWS:

Add Investors:

- Nurture current & add additional sales channels
- Leverage improving refined coal tax equity market and investor clarity as a result of tax reform Optimization:
 - Maximize operational performance to produce RC and further develop customer relationships to ensure retention of RC customers
 - Optimize resources at ADES to support Tinuum and public platform while also reducing expenses



INTEGRATION AND GROWTH:

Integration:

Efficiently combine the teams, expertise, operations and product suite of Carbon Solutions

Growth:

• Immediately address market share capture in North American Mercury Control PAC market, as well as evaluate and pursue adjacent market PAC opportunities



RETURN CAPITAL TO SHAREHOLDERS:

Evaluate options and execute on continued progress for additional return of capital to shareholders, including:

- Stock repurchases (open market and/or one-time tender offers)
- Dividends (one-time and/or incremental recurring)

APPENDIX



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 June 30, 2019 (in thousands) (2) Counts are based upon the number of facilities of which a royalty has been earned during the period



Appendix B: 10-Q Balance Sheet⁽¹⁾

Ac of

| (in thousands, except share data) | June 30, 2019 5,606 4,189 17,798 5,598 48,611 5,000 | | 18,577 9,554 4,284 21,791 |
|---|---|-----|------------------------------------|
| Current assets: Cash, cash equivalents and restricted cash Receivables, net Receivables, related parties Inventories, net Prepaid expenses and other assets Total current assets Restricted cash, long-term Property, plant and equipment, net of accumulated depreciation of \$4,179 and \$1,499, respectively Intangible assets, net Equity method investments Deferred tax assets, net Other long-term assets, net Total Assets LIABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accounts payable Accrued payroll and related liabilities Current portion of long-term debt | 5,606 4,189 17,798 5,598 48,611 | \$ | 9,554 4,284 21,791 |
| Cash, cash equivalents and restricted cash \$ Receivables, net Receivables, related parties Receivables, related parties Inventories, net Prepaid expenses and other assets Total current assets Total current assets - Restricted cash, long-term - Property, plant and equipment, net of accumulated depreciation of \$4,179 and \$1,499, respectively - Intragible assets, net - Equity method investments - Deferred tax assets, net - Other long-term assets, net - Total Assets - LIABILITIES AND STOCKHOLDERS' EQUITY - Current liabilities: - Accounts payable \$ Accounts payable \$ Account portion of long-term debt - | 5,606 4,189 17,798 5,598 48,611 | \$ | 9,554 4,284 21,791 |
| Receivables, net Receivables, related parties Inventories, net Prepaid expenses and other assets Total current assets Restricted cash, long-term Property, plant and equipment, net of accumulated depreciation of \$4,179 and \$1,499, respectively Intangible assets, net Equity method investments Deferred tax assets, net Other long-term assets, net Total Assets LIABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accounts payable Accound payroll and related liabilities Current portion of long-term debt | 5,606 4,189 17,798 5,598 48,611 | \$ | 9,554 4,284 21,791 |
| Receivables, related parties Inventories, net Prepaid expenses and other assets Total current assets Restricted cash, long-term Property, plant and equipment, net of accumulated depreciation of \$4,179 and \$1,499, respectively Intangible assets, net Equity method investments Deferred tax assets, net Other long-term assets, net Total Assets LIABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accounts payable Accrued payroll and related liabilities Current portion of long-term debt | 4,189 17,798 5,598 48,611 | | 4,284 21,791 |
| Inventories, net Prepaid expenses and other assets Total current assets Restricted cash, long-term Property, plant and equipment, net of accumulated depreciation of \$4,179 and \$1,499, respectively Intangible assets, net Equity method investments Deferred tax assets, net Other long-term assets, net Total Assets LIABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accounts payable Accrued payroll and related liabilities Current portion of long-term debt | 17,798 5,598 48,611 | | 21,791 |
| Prepaid expenses and other assets | 5,598 48,611 | | , |
| Total current assets | 48,611 | | |
| Restricted cash, long-term Property, plant and equipment, net of accumulated depreciation of \$4,179 and \$1,499, respectively Intangible assets, net Equity method investments Deferred tax assets, net Other long-term assets, net Total Assets IABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accrued payroll and related liabilities Current portion of long-term debt | | • | 5,570 |
| Property, plant and equipment, net of accumulated depreciation of \$4,179 and \$1,499, respectively Intangible assets, net Equity method investments Deferred tax assets, net Other long-term assets, net Total Assets IABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accounts payable Accrued payroll and related liabilities Current portion of long-term debt | 5 000 | | 59,776 |
| Intangible assets, net Equity method investments Deferred tax assets, net Other long-term assets, net Total Assets LIABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accounts payable Accrued payroll and related liabilities Current portion of long-term debt | | · | 5,195 |
| Equity method investments Deferred tax assets, net Other long-term assets, net Total Assets IABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accounts payable Accrued payroll and related liabilities Current portion of long-term debt | 44,825 | | 42,697 |
| Equity method investments Deferred tax assets, net Other long-term assets, net Total Assets IABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accrued payroll and related liabilities Current portion of long-term debt | 4,501 | | 4,830 |
| Deferred tax assets, net Other long-term assets, net Total Assets IABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Acccued payroll and related liabilities Current portion of long-term debt | 48,403 | | 6,634 |
| Other long-term assets, net 3 Total Assets 3 IABILITIES AND STOCKHOLDERS' EQUITY 5 Current liabilities: 4ccounts payable Accrued payroll and related liabilities \$ Current portion of long-term debt \$ | 19,179 | | 32,539 |
| Total Assets § IABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accounts payable \$ Accrued payroll and related liabilities \$ Current portion of long-term debt \$ | 16,553 | | 7,993 |
| IABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accounts payable Accrued payroll and related liabilities Current portion of long-term debt | 187,072 | \$ | 159,664 |
| Current liabilities: Accounts payable \$ Accrued payroll and related liabilities Current portion of long-term debt | | . 🛨 | 100,001 |
| Accounts payable \$ Accrued payroll and related liabilities Current portion of long-term debt | | | |
| Accrued payroll and related liabilities Current portion of long-term debt | 6,631 | \$ | 6,235 |
| Current portion of long-term debt | 3,450 | | 8,279 |
| | 24,025 | | 24,067 |
| | 5,552 | | 2,138 |
| Total current liabilities | 39,658 | | 40,719 |
| Long-term debt | 34,204 | | 50,058 |
| Cher long-term liabilities | 5,449 | | 940 |
| Total Liabilities | 79.311 | | 91,717 |
| Commitments and contingencies (Note 8) | 10,011 | | 01,111 |
| 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, 22,867,405 and 22,640,677 shares issued, and 18,554,626 | | | |
| and 18,576,489 shares outstanding at June 30, 2019 and December 31, 2018, respectively | 23 | | 23 |
| Treasury stock, at cost: 4,312,779 and 4,064,188 shares as of June 30, 2019 and December 31, 2018, respectively | (44,571) | | (41,740 |
| Additional paid-in capital | 97,354 | | 96,750 |
| Retained earnings | 54,955 | | 12,914 |
| Total stockholders' eauity | 107,761 | | 67,947 |
| Total Liabilities and Stockholders' Equity | 187,072 | \$ | 159,664 |

Appendix C: 10-Q Income Statement⁽¹⁾

| | Three Months Ended June 30, | | | | | Six Months Ended June 30, | | |
|---|---|---------------------------------------|------|---------|------|---------------------------|----|---------|
| (in thousands, except per share data) | No. Carlos | 2019 | 2018 | | 2019 | | | 2018 |
| Revenues: | | | | | | | | |
| Consumables | \$ | 11,386 | \$ | 726 | \$ | 26,495 | \$ | 1,347 |
| License royalties, related party | | 4,191 | | 3,523 | | 8,411 | | 6,753 |
| Other | | - | | 24 | | _ | | 72 |
| Total revenues | | 15,577 | | 4,273 | | 34,906 | | 8,172 |
| Operating expenses: | and the second se | | | | | | _ | |
| Consumables cost of revenue, exclusive of depreciation and amortization | | 12,286 | | 902 | | 26,394 | | 1,613 |
| Other sales cost of revenue, exclusive of depreciation and amortization | | 6 | | (198) | | 6 | | (346) |
| Payroll and benefits | | 2,798 | | 2,759 | | 5,354 | | 4,973 |
| Legal and professional fees | | 1,569 | | 1,213 | | 3,545 | | 2,761 |
| General and administrative | | 2,421 | | 1,094 | | 4,563 | | 2,264 |
| Depreciation, amortization, depletion and accretion | | 757 | | 72 | | 2,859 | | 188 |
| Total operating expenses | | 19,837 | | 5,842 | | 42,721 | | 11,453 |
| Operating loss | | (4,260) | | (1,569) | | (7,815) | | (3,281) |
| Other income (expense): | | · · · · · · · · · · · · · · · · · · · | | 1.1 | 1 4 | | | |
| Earnings from equity method investments | | 20,935 | | 15,889 | | 42,625 | | 28,142 |
| Interest expense | | (1,987) | | (412) | | (4,091) | | (748) |
| Other | | 60 | | 34 | | 130 | | 60 |
| Total other income | \$ | 19,008 | \$ | 15,511 | \$ | 38,664 | \$ | 27,454 |
| ncome before income tax expense | | 14,748 | | 13,942 | | 30,849 | | 24,173 |
| ncome tax expense (benefit) | | 6,634 | | (1,349) | | 8,333 | | 1,220 |
| Net income | \$ | 8,114 | \$ | 15,291 | \$ | 22,516 | \$ | 22,953 |
| Earnings per common share (Note 1): | | C., 19 | | 1 | 4113 | | | |
| Basic | \$ | 0.45 | \$ | 0.76 | \$ | 1.23 | \$ | 1.13 |
| Diluted | \$ | 0.44 | \$ | 0.75 | \$ | 1.22 | \$ | 1.12 |
| Weighted-average number of common shares outstanding: | | | | | | | | |
| Basic | | 18,172 | | 20,062 | | 18,219 | | 20,275 |
| Diluted | | 18,377 | | 20,195 | | 18,412 | | 20,386 |



Appendix D: 10-Q Cash Flow⁽¹⁾

| | Six Months En | Six Months Ended June 30, | | | | | |
|---|---------------|---------------------------|--|--|--|--|--|
| (in thousands) | 2019 | 2018 | | | | | |
| Cash flows from operating activities | | | | | | | |
| Net income | \$ 22,516 | \$ 22,953 | | | | | |
| Adjustments to reconcile net income to net cash provided by operating activities: | | | | | | | |
| Increase (decrease) in valuation allowance on deferred tax assets | 849 | (498) | | | | | |
| Depreciation, amortization, depletion and accretion | 2,859 | 188 | | | | | |
| Amortization of debt discount and debt issuance costs | 851 | | | | | | |
| Stock-based compensation expense | 858 | 1,010 | | | | | |
| Earnings from equity method investments | (42,625) | (28,142) | | | | | |
| Other non-cash items, net | 474 | 192 | | | | | |
| Changes in operating assets and liabilities: | | | | | | | |
| Receivables and related party receivables | 4,044 | (64) | | | | | |
| Prepaid expenses and other assets | 47 | (375 | | | | | |
| Costs incurred on uncompleted contracts | | 15,945 | | | | | |
| Inventories | 3,794 | _ | | | | | |
| Deferred tax assets, net | 4,097 | (246) | | | | | |
| Other long-term assets | 1,470 | - | | | | | |
| Accounts payable | (758) | 323 | | | | | |
| Accrued payroll and related liabilities | (4,829) | 152 | | | | | |
| Other current liabilities | 862 | (1,505) | | | | | |
| Billings on uncompleted contracts | | (15,945) | | | | | |
| Operating lease liabilities | (1,563) | - | | | | | |
| Other long-term liabilities | (462) | (135 | | | | | |
| Distributions from equity method investees, return on investment | 38,088 | 2,700 | | | | | |
| Net cash provided by (used in) operating activities | 30,572 | (3,447 | | | | | |



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

| | Six Months Ended June 30, | | | | |
|---|---------------------------|----------|--|--|--|
| (in thousands) | 2019 | 2018 | | | |
| Cash flows from investing activities | | | | | |
| Distributions from equity method investees in excess of cumulative earnings | \$ — \$ | 25,500 | | | |
| Acquisition of business | (661) | _ | | | |
| Acquisition of property, plant, equipment, and intangible assets | (3,797) | (131) | | | |
| Mine development costs | (521) | - | | | |
| Contributions to equity method investees | _ | (750) | | | |
| Net cash (used in) provided by investing activities | (4,979) | 24,619 | | | |
| Cash flows from financing activities | | | | | |
| Principal payments on term loan | (16,000) | - | | | |
| Principal payments on finance lease obligations | (681) | - | | | |
| Dividends paid | (9,179) | (10,216) | | | |
| Repurchase of common shares | (2,831) | (9,111) | | | |
| Repurchase of common shares to satisfy tax withholdings | (254) | (359) | | | |
| Net cash used in financing activities | (28,945) | (19,686) | | | |
| (Decrease) increase in Cash and Cash Equivalents and Restricted Cash | (3,352) | 1,486 | | | |
| Cash and Cash Equivalents and Restricted Cash, beginning of period | 23,772 | 30,693 | | | |
| Cash and Cash Equivalents and Restricted Cash, end of period | \$ 20,420 \$ | 32,179 | | | |
| Supplemental disclosure of non-cash investing and financing activities: | | | | | |
| Acquisition of property, plant and equipment through accounts payable | \$ 1,561 \$ | _ | | | |
| Dividends declared, not paid | \$ 113 \$ | 63 | | | |
| | | | | | |



Appendix E: Non-GAAP Financial Measure & Consolidated EBITDA Reconciliation to Net Income

Note on Non-GAAP Financial Measure

To supplement the Company's financial information presented in accordance with U.S. generally accepted accounting principles, or GAAP, this investor presentation includes a non-GAAP measure of certain financial performance. This non-GAAP measures include Consolidated EBITDA. The Company included a non-GAAP measure because management believes that it helps to facilitate comparison of operating results between periods. The Company believes the non-GAAP measure provides useful information to both management and users of the financial statements by excluding certain expenses, gains and losses that may not be indicative of core operating results and business outlook. The non-GAAP measure is not in accordance with, or an alternative to, measures prepared in accordance with GAAP and may be different from non-GAAP measures used by other companies. In addition, the non-GAAP measure is not based on any comprehensive set of accounting rules or principles. This measure should only be used to evaluate the Company's results of operations in conjunction with the corresponding GAAP measures.

The Company has defined Consolidated EBITDA as net income, adjusted for the impact of the following items that are either non-cash or that the Company does not consider representative of its ongoing operating performance: depreciation, amortization, depletion and accretion, interest expense, net and income tax expense. Because Consolidated EBITDA omits certain non-cash items, the Company believes that the measure is less susceptible to variances that affect the Company's operating performance.

The Company presents Consolidated EBITDA because the Company believes it is useful as supplemental measures in evaluating the performance of the Company's operating performance and provides greater transparency into the results of operations. The Company's management uses Consolidated EBITDA as a factor in evaluating the performance of its business.

The adjustments to Consolidated EBITDA in future periods are generally expected to be similar. Consolidated EBITDA has limitations as analytical tools, and you should not consider these measures in isolation or as a substitute for analyzing the Company's results as reported under GAAP.

| | Т | hree Months | Ende | Six Months Ended June 30, | | | | |
|---|----|-------------|------|---------------------------|--------|----|--------|--|
| (in thousands) | | 2019 | | 2018 | 2019 | 2 | 2018 | |
| Net income | \$ | 8,114 | \$ | 15,291 \$ | 22,516 | \$ | 22,953 | |
| Depreciation, amortization, depletion and accretion | | 757 | | 72 | 2,859 | | 188 | |
| Interest expense, net | | 1,921 | | 383 | 3,956 | | 686 | |
| Income tax expense (benefit) | | 6,634 | | (1,349) | 8,333 | | 1,220 | |
| Consolidated EBITDA | \$ | 17,426 | \$ | 14,397 \$ | 37,664 | \$ | 25,047 | |