

Table 1 - Reconciliation of Segment Information to Consolidated Financial Information

Millions of dollars	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Sales and other operating revenues:									
Olefins & Polyolefins - Americas	\$ 2,111	\$ 2,114	\$ 2,137	\$ 2,073	\$ 8,435	\$ 1,792	\$ 1,433	\$ 1,840	\$ 5,065
Olefins & Polyolefins - EAI	2,535	2,505	2,309	2,155	9,504	2,224	1,702	1,982	5,908
Intermediates & Derivatives	1,894	2,062	2,046	1,832	7,834	1,770	1,157	1,538	4,465
Advanced Polymer Solutions	1,339	1,258	1,186	1,067	4,850	1,096	705	1,004	2,805
Refining	1,882	2,180	2,134	2,055	8,251	1,448	919	1,101	3,468
Technology	141	173	146	203	663	122	177	193	492
Other/Eliminations	(1,124)	(1,244)	(1,236)	(1,206)	(4,810)	(958)	(547)	(882)	(2,387)
Continuing operations	<u>\$ 8,778</u>	<u>\$ 9,048</u>	<u>\$ 8,722</u>	<u>\$ 8,179</u>	<u>\$ 34,727</u>	<u>\$ 7,494</u>	<u>\$ 5,546</u>	<u>\$ 6,776</u>	<u>\$ 19,816</u>
Operating income (loss):									
Olefins & Polyolefins - Americas	\$ 384	\$ 504	\$ 524	\$ 365	\$ 1,777	\$ 238	\$ 107	\$ 309	\$ 654
Olefins & Polyolefins - EAI	186	226	202	59	673	135	81	52	268
Intermediates & Derivatives	314	372	314	249	1,249	131	24	180	335
Advanced Polymer Solutions	119	91	67	13	290	70	(83)	116	103
Refining	(59)	(110)	(52)	(19)	(240)	(314)	116	(733)	(931)
Technology	73	96	73	132	374	47	104	101	252
Other	—	(2)	(4)	(1)	(7)	(3)	(10)	(2)	(15)
Continuing operations	<u>\$ 1,017</u>	<u>\$ 1,177</u>	<u>\$ 1,124</u>	<u>\$ 798</u>	<u>\$ 4,116</u>	<u>\$ 304</u>	<u>\$ 339</u>	<u>\$ 23</u>	<u>\$ 666</u>
Depreciation and amortization:									
Olefins & Polyolefins - Americas	\$ 115	\$ 117	\$ 118	\$ 120	\$ 470	\$ 124	\$ 133	\$ 134	\$ 391
Olefins & Polyolefins - EAI	53	52	51	52	208	53	53	55	161
Intermediates & Derivatives	72	74	75	74	295	70	74	79	223
Advanced Polymer Solutions	29	30	32	42	133	44	39	40	123
Refining	43	44	41	41	169	42	49	40	131
Technology	10	11	10	6	37	9	8	10	27
Continuing operations	<u>\$ 322</u>	<u>\$ 328</u>	<u>\$ 327</u>	<u>\$ 335</u>	<u>\$ 1,312</u>	<u>\$ 342</u>	<u>\$ 356</u>	<u>\$ 358</u>	<u>\$ 1,056</u>
EBITDA: ^(a)									
Olefins & Polyolefins - Americas	\$ 516	\$ 635	\$ 653	\$ 498	\$ 2,302	\$ 366	\$ 248	\$ 474	\$ 1,088
Olefins & Polyolefins - EAI	296	331	291	144	1,062	189	185	148	522
Intermediates & Derivatives	390	448	390	329	1,557	203	101	267	571
Advanced Polymer Solutions	148	120	102	54	424	113	(44)	157	226
Refining	(15)	(66)	(6)	22	(65)	(272)	165	(692)	(799)
Technology	83	107	83	138	411	56	112	111	279
Other	10	4	—	(13)	1	(9)	(7)	1	(15)
Continuing operations	<u>\$ 1,428</u>	<u>\$ 1,579</u>	<u>\$ 1,513</u>	<u>\$ 1,172</u>	<u>\$ 5,692</u>	<u>\$ 646</u>	<u>\$ 760</u>	<u>\$ 466</u>	<u>\$ 1,872</u>
Capital, turnarounds and IT deferred spending:									
Olefins & Polyolefins - Americas	\$ 276	\$ 257	\$ 295	\$ 271	\$ 1,099	\$ 204	\$ 190	\$ 130	\$ 524
Olefins & Polyolefins - EAI	64	39	45	65	213	42	34	38	114
Intermediates & Derivatives	179	238	317	330	1,064	353	305	103	761
Advanced Polymer Solutions	16	11	14	18	59	13	10	18	41
Refining	43	53	41	12	149	16	21	15	52
Technology	17	17	26	34	94	30	26	24	80
Other	4	7	4	1	16	2	2	97	101
Continuing operations	<u>\$ 599</u>	<u>\$ 622</u>	<u>\$ 742</u>	<u>\$ 731</u>	<u>\$ 2,694</u>	<u>\$ 660</u>	<u>\$ 588</u>	<u>\$ 425</u>	<u>\$ 1,673</u>

(a) See Table 7 for the reconciliation of net income to EBITDA, including and excluding LCM and impairment.

Table 2 - Selected Segment Operating Information

	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Olefins and Polyolefins - Americas									
<i>Volumes (kilotons)</i>									
Ethylene produced	1,096	1,110	944	1,143	4,293	1,014	872	1,116	3,002
Propylene produced	332	308	367	336	1,343	325	324	357	1,006
Polyethylene sold	637	634	673	644	2,588	689	665	672	2,026
Polypropylene sold	219	232	247	207	905	216	228	221	665
<i>Benchmark Market Prices</i>									
West Texas Intermediate crude oil (USD per barrel)	54.90	59.80	56.40	56.98	57.02	45.97	27.80	41.83	38.53
Brent crude oil (USD per barrel)	63.90	68.32	62.00	62.51	64.18	50.95	33.27	43.37	42.53
Houston Ship Channel natural gas (USD per million BTUs)	2.86	2.46	2.26	2.24	2.46	1.82	1.64	1.97	1.81
U.S. weighted average cost of ethylene production (USD per metric ton)	362	262	209	260	273	198	265	292	252
U.S. ethylene (USD per metric ton)	614	535	584	632	591	525	507	619	551
U.S. polyethylene [high density] (USD per metric ton)	1,168	1,235	1,146	1,036	1,146	970	882	1,146	999
U.S. propylene (USD per metric ton)	838	823	845	775	820	683	577	768	676
U.S. polypropylene [homopolymer] (USD per metric ton)	1,323	1,308	1,308	1,224	1,291	1,014	930	1,143	1,029
Olefins and Polyolefins - Europe, Asia, International									
<i>Volumes (kilotons)</i>									
Ethylene produced	408	456	448	430	1,742	468	413	425	1,306
Propylene produced	239	274	271	249	1,033	272	243	251	766
Polyethylene sold	678	562	619	591	2,450	677	698	630	2,005
Polypropylene sold	752	729	718	722	2,921	729	742	769	2,240
<i>Benchmark Market Prices (€ per metric ton)</i>									
Western Europe weighted average cost of ethylene production	466	493	433	576	492	352	236	396	328
Western Europe ethylene	995	1,065	993	973	1,007	953	673	778	802
Western Europe polyethylene [high density]	1,126	1,191	1,125	1,097	1,135	1,044	922	1,007	991
Western Europe propylene	933	983	893	852	915	838	617	723	726
Western Europe polypropylene [homopolymer]	1,222	1,268	1,185	1,136	1,203	1,084	975	1,018	1,025
Intermediates and Derivatives									
<i>Volumes Sold (kilotons)</i>									
Propylene oxide and derivatives	363	343	353	336	1,395	366	281	340	987
Intermediate Chemicals:									
Ethylene oxide and derivatives	120	133	133	118	504	112	115	135	362
Styrene monomer	372	392	408	306	1,478	376	391	376	1,143
Acetyls	296	358	308	283	1,245	216	214	366	796
Oxvfuels and Related Products:									
TBA intermediates	160	177	160	154	651	156	103	127	386
MTBE/ETBE	677	819	884	805	3,185	835	747	857	2,439
<i>Benchmark Market Margins (USD per metric ton)</i>									
MTBE - Northwest Europe	126	295	374	282	266	165	68	93	108
Advanced Polymer Solutions									
<i>Volumes Sold (kilotons)</i>									
Compounding & Solutions	503	475	452	422	1,852	424	252	396	1,072
Advanced Polymers	104	105	106	91	406	105	103	105	313
Refining									
<i>Volumes (thousands of barrels per day)</i>									
Heavy crude oil processing rates	259	261	264	267	263	226	237	216	226
<i>Benchmark Market Margins</i>									
Brent - 2-1-1	8.40	12.74	12.75	9.87	10.94	7.43	4.42	5.71	5.86
Brent - Maya differential	5.12	6.26	5.36	9.59	6.58	9.79	8.85	4.18	7.61

Source: LYB and third party consultants

Note: Benchmark market prices for U.S. and Western Europe polyethylene and polypropylene reflect discounted prices. Volumes presented represent third party sales of selected key products.

Table 3 - Unaudited Income Statement Information

Millions of dollars	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Sales and other operating revenues	\$ 8,778	\$ 9,048	\$ 8,722	\$ 8,179	\$ 34,727	\$ 7,494	\$ 5,546	\$ 6,776	\$ 19,816
Cost of sales ^(a)	7,446	7,542	7,269	7,044	29,301	6,868	4,894	5,885	17,647
Impairment of long-lived assets	—	—	—	—	—	—	—	582	582
Selling, general and administrative expenses ^(b)	287	302	303	307	1,199	295	288	259	842
Research and development expenses	28	27	26	30	111	27	25	27	79
Operating income	1,017	1,177	1,124	798	4,116	304	339	23	666
Income from equity investments	64	64	51	46	225	—	61	62	123
Interest expense, net	(86)	(76)	(81)	(85)	(328)	(86)	(121)	(119)	(326)
Other income, net	25	10	11	(7)	39	—	4	23	27
Income from continuing operations before income taxes	1,020	1,175	1,105	752	4,052	218	283	(11)	490
Provision for (benefit from) income taxes ^(c)	203	169	136	140	648	75	(32)	(125)	(82)
Income from continuing operations ^(d)	817	1,006	969	612	3,404	143	315	114	572
Loss (income) from discontinued operations, net of tax	—	(3)	(4)	—	(7)	1	(1)	—	—
Net income ^(d)	817	1,003	965	612	3,397	144	314	114	572
Dividends on redeemable non-controlling interests	(2)	(1)	(2)	(2)	(7)	(2)	(1)	(2)	(5)
Net income attributable to Company shareholders ^(d)	<u>\$ 815</u>	<u>\$ 1,002</u>	<u>\$ 963</u>	<u>\$ 610</u>	<u>\$ 3,390</u>	<u>\$ 142</u>	<u>\$ 313</u>	<u>\$ 112</u>	<u>\$ 567</u>

(a) The third quarter of 2019, fourth quarter of 2019, first quarter of 2020, second quarter of 2020 and third quarter of 2020 include pre-tax charges of \$3 million, \$20 million, \$3 million, \$1 million and \$2 million, respectively, for integration costs associated with our 2018 acquisition of A. Schulman.

(b) The first quarter of 2019, second quarter of 2019, third quarter of 2019, fourth quarter of 2019, first quarter of 2020, second quarter of 2020 and third quarter of 2020 include pre-tax charges of \$16 million, \$19 million, \$40 million, \$18 million, \$11 million, \$15 million and \$5 million, respectively, for integration costs associated with our 2018 acquisition of A. Schulman.

(c) The third quarter of 2019 includes a non-cash benefit of \$85 million from the previously unrecognized tax benefits and release of associated accrued interest.

(d) The first quarter of 2019, second quarter of 2019, third quarter of 2019, fourth quarter of 2019, first quarter of 2020, second quarter of 2020 and third quarter of 2020 include after-tax charges of \$12 million, \$15 million, \$33 million, \$29 million, \$13 million, \$11 million and \$3 million, respectively, for integration costs associated with our 2018 acquisition of A. Schulman.

Table 4 - Charges (Benefits) Included in Net Income

<u>Millions of dollars (except share data)</u>	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Pretax charges (benefits):									
LCM charges (benefits)	\$ —	\$ —	\$ —	\$ 33	\$ 33	\$ 419	\$ (96)	\$ (160)	\$ 163
Impairment of long-lived assets	—	—	—	—	—	—	—	582	582
Restructuring charges - Refinery	—	—	—	—	—	—	—	8	8
Tax benefit from release of previously unrecognized tax benefits and associated accrued interest	—	—	(85)	—	(85)	—	—	—	—
Acquisition-related costs - A. Schulman	16	19	43	38	116	14	16	7	37
Total pretax charges (benefits)	16	19	(42)	71	64	433	(80)	437	790
Provision for (benefit from) income taxes related to these items	(4)	(4)	(10)	(17)	(35)	(69)	3	(115)	(181)
After-tax effect of net charges (benefits)	<u>\$ 12</u>	<u>\$ 15</u>	<u>\$ (52)</u>	<u>\$ 54</u>	<u>\$ 29</u>	<u>\$ 364</u>	<u>\$ (77)</u>	<u>\$ 322</u>	<u>\$ 609</u>
Effect on diluted earnings per share:									
LCM charges (benefits)	\$ —	\$ —	\$ —	\$ (0.07)	\$ (0.07)	\$ (1.05)	\$ 0.26	\$ 0.40	\$ (0.39)
Impairment of long-lived assets	—	—	—	—	—	—	—	(1.34)	(1.34)
Restructuring charges - Refinery	—	—	—	—	—	—	—	(0.01)	(0.02)
Tax benefit from release of previously unrecognized tax benefits and associated accrued interest	—	—	0.25	—	0.24	—	—	—	—
Acquisition-related costs - A. Schulman	(0.03)	(0.04)	(0.10)	(0.08)	(0.26)	(0.04)	(0.03)	(0.01)	(0.08)
Total	<u>\$ (0.03)</u>	<u>\$ (0.04)</u>	<u>\$ 0.15</u>	<u>\$ (0.15)</u>	<u>\$ (0.09)</u>	<u>\$ (1.09)</u>	<u>\$ 0.23</u>	<u>\$ (0.96)</u>	<u>\$ (1.83)</u>

Table 5 - Unaudited Cash Flow Information and Calculation of Cash Conversion Ratio

	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Net cash provided by operating activities	\$ 657	\$ 1,186	\$ 1,876	\$ 1,242	\$ 4,961	\$ 542	\$ 1,292	\$ 827	\$ 2,661
Net cash used in investing activities	(178)	(278)	(754)	(425)	(1,635)	(663)	(1,064)	(580)	(2,307)
Net cash (used in) provided by financing activities	(521)	39	(1,900)	(453)	(2,835)	884	684	(376)	1,192
Q3 2020 net cash provided by operating activities								\$ 827	
Divided by:									
Q3 2020 EBITDA excluding LCM and impairment ^(a)								\$ 888	
Cash conversion ratio of Q3 2020 cash provided by operating activities to Q3 2020 LTM EBITDA excluding LCM and impairment								<u>93 %</u>	

(a) EBITDA excluding LCM and impairment see Table 7 Reconciliation of Net Income to EBITDA, including and excluding LCM and impairment

Table 6 - Unaudited Balance Sheet Information

Millions of dollars	March 31, 2019	June 30, 2019	September 30, 2019	December 31, 2019	March 31, 2020	June 30, 2020	September 30, 2020
Cash and cash equivalents	\$ 339	\$ 1,279	\$ 476	\$ 858	\$ 1,596	\$ 2,552	\$ 2,459
Restricted cash	19	29	36	30	37	26	25
Short-term investments	423	52	53	196	199	651	361
Accounts receivable, net	3,680	3,758	3,469	3,102	3,043	2,588	2,974
Inventories	4,496	4,685	4,446	4,588	3,973	3,768	4,005
Prepaid expenses and other current assets	1,329	1,285	1,150	736	844	892	935
Total current assets	10,286	11,088	9,630	9,510	9,692	10,477	10,759
Operating lease assets	1,534	1,560	1,510	1,468	1,453	1,425	1,386
Property, plant and equipment, net	12,797	13,285	13,669	14,130	14,387	14,526	14,133
Investments and long-term receivables:							
Investment in PO joint ventures	464	489	486	504	497	523	509
Equity investments	1,650	1,599	1,609	1,602	1,539	1,559	2,085
Other investments and long-term receivables	23	24	24	22	22	23	26
Goodwill	1,803	1,848	1,848	1,891	1,800	1,830	1,880
Intangible assets, net	945	892	841	869	808	756	752
Other assets	387	386	497	439	902	422	419
Total assets	<u>\$ 29,889</u>	<u>\$ 31,171</u>	<u>\$ 30,114</u>	<u>\$ 30,435</u>	<u>\$ 31,100</u>	<u>\$ 31,541</u>	<u>\$ 31,949</u>
Current maturities of long-term debt	\$ 5	\$ 4	\$ 4	\$ 3	\$ 3	\$ 3	\$ 2
Short-term debt	2,377	2,812	2,438	445	1,493	659	616
Accounts payable	3,187	3,115	3,201	2,928	2,638	2,194	2,479
Accrued liabilities	1,443	1,607	1,745	1,822	1,387	1,579	1,685
Total current liabilities	7,012	7,538	7,388	5,198	5,521	4,435	4,782
Long-term debt	7,522	7,586	9,628	11,614	12,159	13,674	13,759
Operating lease liabilities	1,282	1,304	1,257	1,216	1,192	1,160	1,122
Other liabilities	1,830	1,876	1,801	2,213	2,808	2,968	3,038
Deferred income taxes	1,967	2,008	2,018	2,015	1,961	1,811	1,809
Redeemable non-controlling interests	116	116	116	116	116	116	116
Shareholders' equity	10,138	10,721	7,888	8,044	7,324	7,358	7,306
Non-controlling interests	22	22	18	19	19	19	17
Total liabilities, redeemable non-controlling interests and equity	<u>\$ 29,889</u>	<u>\$ 31,171</u>	<u>\$ 30,114</u>	<u>\$ 30,435</u>	<u>\$ 31,100</u>	<u>\$ 31,541</u>	<u>\$ 31,949</u>

Non-GAAP Reconciliations

Table 7 - Reconciliation of Net Income to EBITDA, including and excluding LCM and Impairment

Millions of dollars	Three Months Ended				Year Ended	Three Months Ended			Nine Months Ended		Last Twelve Months
	March 31, 2019	June 30, 2019	September 30, 2019	December 31, 2019	December 31, 2019	March 31, 2020	June 30, 2020	September 30, 2020	September 30, 2019	September 30, 2020	September 30, 2020
Net income ^{(a)(b)}	\$ 817	\$ 1,003	\$ 965	\$ 612	\$ 3,397	\$ 144	\$ 314	\$ 114	\$ 2,785	\$ 572	\$ 1,184
add: LCM charges (benefits), after-tax	—	—	—	25	25	351	(88)	(133)	—	130	155
add: Impairment of long-lived assets, after tax	—	—	—	—	—	—	—	446	—	446	446
Net income excluding LCM and impairment	817	1,003	965	637	3,422	495	226	427	2,785	1,148	1,785
less: LCM (charges) benefits, after-tax	—	—	—	(25)	(25)	(351)	88	133	—	(130)	(155)
less: Impairment of long-lived assets, after-tax	—	—	—	—	—	—	—	(446)	—	(446)	(446)
Net income	817	1,003	965	612	3,397	144	314	114	2,785	572	1,184
Loss (income) from discontinued operations, net of tax	—	3	4	—	7	(1)	1	—	7	—	—
Income from continuing operations ^{(a)(b)}	817	1,006	969	612	3,404	143	315	114	2,792	572	1,184
Provision for (benefit from) income taxes ^(b)	203	169	136	140	648	75	(32)	(125)	508	(82)	58
Depreciation and amortization	322	328	327	335	1,312	342	356	358	977	1,056	1,391
Interest expense, net	86	76	81	85	328	86	121	119	243	326	411
add: LCM charges (benefits), pre-tax	—	—	—	33	33	419	(96)	(160)	—	163	196
EBITDA excluding LCM	1,428	1,579	1,513	1,205	5,725	1,065	664	306	4,520	2,035	3,240
add: Impairment of long-lived assets, pre-tax	—	—	—	—	—	—	—	582	—	582	582
EBITDA excluding LCM and impairment	1,428	1,579	1,513	1,205	5,725	1,065	664	888	4,520	2,617	3,822
less: LCM (charges) benefits, pre-tax	—	—	—	(33)	(33)	(419)	96	160	—	(163)	(196)
less: Impairment of long-lived assets, pre-tax	—	—	—	—	—	—	—	(582)	—	(582)	(582)
EBITDA ^(c)	<u>\$ 1,428</u>	<u>\$ 1,579</u>	<u>\$ 1,513</u>	<u>\$ 1,172</u>	<u>\$ 5,692</u>	<u>\$ 646</u>	<u>\$ 760</u>	<u>\$ 466</u>	<u>\$ 4,520</u>	<u>\$ 1,872</u>	<u>\$ 3,044</u>

Note: Last twelve months September 30, 2020 is calculated as year ended December 31, 2019 plus nine months ended September 30, 2020, minus nine months ended September 30, 2019.

(a) The first quarter of 2019, second quarter of 2019, third quarter of 2019, fourth quarter of 2019, first quarter of 2020, second quarter of 2020 and third quarter of 2020 include after-tax charges of \$12 million, \$15 million, \$33 million, \$29 million, \$13 million, \$11 million and \$3 million, respectively, for integration costs associated with our 2018 acquisition of A. Schulman.

(b) The third quarter of 2019 includes a non-cash benefit of \$85 million, from the release of unrecognized tax benefits and associated accrued interest.

(c) EBITDA for the first quarter of 2019, second quarter of 2019, third quarter of 2019, fourth quarter of 2019, first quarter of 2020, second quarter of 2020 and third quarter of 2020 include pre-tax charges of \$16 million, \$19 million, \$43 million, \$38 million, \$14 million, \$16 million and \$7 million, respectively, for integration costs associated with our 2018 acquisition of A. Schulman.

Table 8 - Reconciliation of EBITDA to EBITDA Excluding LCM and Impairment by Segment

	Three Months Ended				Year Ended	Three Months Ended			Nine Months Ended
	March 31, 2019	June 30, 2019	September 30, 2019	December 31, 2019	December 31, 2019	March 31, 2020	June 30, 2020	September 30, 2020	September 30, 2020
EBITDA:									
Olefins & Polyolefins - Americas	\$ 516	\$ 635	\$ 653	\$ 498	\$ 2,302	\$ 366	\$ 248	\$ 474	\$ 1,088
Olefins & Polyolefins - EAI	296	331	291	144	1,062	189	185	148	522
Intermediates & Derivatives	390	448	390	329	1,557	203	101	267	571
Advanced Polymer Solutions	148	120	102	54	424	113	(44)	157	226
Refining	(15)	(66)	(6)	22	(65)	(272)	165	(692)	(799)
Technology	83	107	83	138	411	56	112	111	279
Other	10	4	—	(13)	1	(9)	(7)	1	(15)
Continuing Operations	<u>\$ 1,428</u>	<u>\$ 1,579</u>	<u>\$ 1,513</u>	<u>\$ 1,172</u>	<u>\$ 5,692</u>	<u>\$ 646</u>	<u>\$ 760</u>	<u>\$ 466</u>	<u>\$ 1,872</u>
Add: LCM charges (benefits), pre-tax:									
Olefins & Polyolefins - Americas	\$ —	\$ —	\$ —	\$ 25	\$ 25	\$ 111	\$ (38)	\$ (70)	\$ 3
Olefins & Polyolefins - EAI	—	—	—	—	—	36	34	(17)	53
Intermediates & Derivatives	—	—	—	—	—	78	20	(22)	76
Advanced Polymer Solutions	—	—	—	8	8	2	67	(40)	29
Refining	—	—	—	—	—	192	(179)	(11)	2
Continuing Operations	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 33</u>	<u>\$ 33</u>	<u>\$ 419</u>	<u>\$ (96)</u>	<u>\$ (160)</u>	<u>\$ 163</u>
EBITDA excluding LCM:									
Olefins & Polyolefins - Americas	\$ 516	\$ 635	\$ 653	\$ 523	\$ 2,327	\$ 477	\$ 210	\$ 404	\$ 1,091
Olefins & Polyolefins - EAI	296	331	291	144	1,062	225	219	131	575
Intermediates & Derivatives	390	448	390	329	1,557	281	121	245	647
Advanced Polymer Solutions	148	120	102	62	432	115	23	117	255
Refining	(15)	(66)	(6)	22	(65)	(80)	(14)	(703)	(797)
Technology	83	107	83	138	411	56	112	111	279
Other	10	4	—	(13)	1	(9)	(7)	1	(15)
Continuing Operations	<u>\$ 1,428</u>	<u>\$ 1,579</u>	<u>\$ 1,513</u>	<u>\$ 1,205</u>	<u>\$ 5,725</u>	<u>\$ 1,065</u>	<u>\$ 664</u>	<u>\$ 306</u>	<u>\$ 2,035</u>
Add: Impairment of long-lived assets, pre-tax:									
Refining	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 582	\$ 582
EBITDA excluding LCM and impairment:									
Olefins & Polyolefins - Americas	\$ 516	\$ 635	\$ 653	\$ 523	\$ 2,327	\$ 477	\$ 210	\$ 404	\$ 1,091
Olefins & Polyolefins - EAI	296	331	291	144	1,062	225	219	131	575
Intermediates & Derivatives	390	448	390	329	1,557	281	121	245	647
Advanced Polymer Solutions	148	120	102	62	432	115	23	117	255
Refining	(15)	(66)	(6)	22	(65)	(80)	(14)	(121)	(215)
Technology	83	107	83	138	411	56	112	111	279
Other	10	4	—	(13)	1	(9)	(7)	1	(15)
Continuing Operations	<u>\$ 1,428</u>	<u>\$ 1,579</u>	<u>\$ 1,513</u>	<u>\$ 1,205</u>	<u>\$ 5,725</u>	<u>\$ 1,065</u>	<u>\$ 664</u>	<u>\$ 888</u>	<u>\$ 2,617</u>

Table 9 - Reconciliation of Diluted EPS to Diluted EPS Excluding LCM and Impairment

	Three Months Ended			Nine Months Ended	Three Months Ended			Nine Months Ended
	March 31, 2019	June 30, 2019	September 30, 2019	September 30, 2019	March 31, 2020	June 30, 2020	September 30, 2020	September 30, 2020
Diluted earnings per share	\$ 2.19	\$ 2.70	\$ 2.85	\$ 7.72	\$ 0.42	\$ 0.94	\$ 0.33	\$ 1.69
Add:								
LCM charges (benefits)	—	—	—	—	1.05	(0.26)	(0.40)	0.39
Impairment of long-lived assets	—	—	—	—	—	—	1.34	1.34
Total	—	—	—	—	1.05	(0.26)	0.94	1.73
Diluted earnings per share excluding LCM and impairment	<u>\$ 2.19</u>	<u>\$ 2.70</u>	<u>\$ 2.85</u>	<u>\$ 7.72</u>	<u>\$ 1.47</u>	<u>\$ 0.68</u>	<u>\$ 1.27</u>	<u>\$ 3.42</u>

Table 10 - Components of Cash and Liquid Investments and Total Liquidity

<u>Millions of dollars</u>	<u>September 30, 2020</u>
Cash and cash equivalents and restricted cash	\$ 2,484
Short-term investments	<u>361</u>
Cash and liquid investments	2,845
Availability under Senior Revolving Credit Facility	2,045
Availability under U.S. Receivables Facility	<u>646</u>
Total liquidity	<u><u>\$ 5,536</u></u>

Table 11 - Reconciliation of Free Operating Cash Flow to Net Cash Provided by Operating Activities and Ratio of LTM Cash Provided by Operating Activities to LTM EBITDA Ex LCM and Impairment

<u>Millions of dollars</u>	<u>Years Ended December 31,</u>					<u>Nine Months Ended</u>		<u>Last Twelve Months</u>
	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>September 30, 2019</u>	<u>September 30, 2020</u>	<u>September 30, 2020</u>
Free operating cash flow	\$ 5,027	\$ 4,497	\$ 4,187	\$ 4,419	\$ 3,937	\$ 2,992	\$ 2,015	\$ 2,960
Add:								
Sustaining (maintenance and HSE) capital expenditures	815	1,109	1,019	1,052	1,024	727	646	943
Net cash provided by operating activities	<u>\$ 5,842</u>	<u>\$ 5,606</u>	<u>\$ 5,206</u>	<u>\$ 5,471</u>	<u>\$ 4,961</u>	<u>\$ 3,719</u>	<u>\$ 2,661</u>	<u>\$ 3,903</u>
Divided by:								
Q3 2020 LTM EBITDA excluding LCM and impairment ^(a)								\$ 3,822
Ratio of Q3 2020 LTM cash provided by operating activities to Q3 2020 LTM EBITDA excluding LCM and impairment								<u>102 %</u>

(a) LTM EBITDA excluding LCM and impairment see Table 7 Reconciliation of Net Income to EBITDA, including and excluding LCM and impairment

Table 12 - Calculation of LTM Free Operating Cash Flow Yield

	<u>Last Twelve Months</u>
<u>Millions of Dollars (except share data)</u>	<u>September 30, 2020</u>
Net cash provided by operating activities	\$ 3,903
Less:	
Sustaining (maintenance and HSE) capital expenditures	<u>943</u>
Free operating cash flow	\$ 2,960
Market Capital:	
Common stock outstanding	333,918,359
Closing Share Price, end of period	<u>\$ 70.49</u>
Market Capital	\$ 23,538
Free Operating Cash Flow Yield	<u><u>12.6 %</u></u>