

MANAGEMENT'S DISCUSSION AND ANALYSIS

*AS OF SEPTEMBER 30, 2019 AND DECEMBER 31, 2018 AND
FOR THE THREE AND NINE-MONTH PERIODS ENDED SEPTEMBER 30, 2019 AND 2018*

INTRODUCTION

The following Management's Discussion and Analysis ("MD&A") is the responsibility of management of Brookfield Infrastructure Partners L.P. (our "partnership" collectively with its subsidiary and operating entities "Brookfield Infrastructure"). This MD&A is dated November 12, 2019 and has been approved by the Board of Directors of the general partner of our partnership for issuance as of that date. The Board of Directors carries out its responsibility for review of this document principally through its audit committee, comprised exclusively of independent directors. The audit committee reviews and, prior to its publication, approves this document, pursuant to the authority delegated to it by the Board of Directors. The terms "Brookfield Infrastructure," "we," "us" and "our" refer to Brookfield Infrastructure Partners L.P., and our partnership's direct and indirect subsidiaries and operating entities as a group. This MD&A should be read in conjunction with Brookfield Infrastructure Partners L.P.'s most recently issued annual and interim financial statements. Additional information, including Brookfield Infrastructure's Form 20-F, is available on its website at www.brookfieldinfrastructure.com, on SEDAR's website at www.sedar.com and on EDGAR's website at www.sec.gov/edgar.shtml.

Business Overview

Brookfield Infrastructure owns and operates high quality, long-life assets that generate stable cash flows, require relatively minimal maintenance capital expenditures and, by virtue of barriers to entry and other characteristics, tend to appreciate in value over time. Our current operations consist of utilities, transport, energy and data infrastructure businesses in North and South America, Asia Pacific and Europe. Our mission is to own and operate a globally diversified portfolio of high-quality infrastructure assets that will generate sustainable and growing distributions over the long term for our unitholders. To accomplish this objective, we will seek to leverage our operating platforms to acquire infrastructure assets and actively manage them to extract additional value following our initial investment. An integral part of our strategy is to participate with institutional investors in Brookfield Asset Management Inc. (together with its affiliated entities other than us, "Brookfield") sponsored partnerships that target acquisitions that suit our profile. We will focus on partnerships in which Brookfield has sufficient influence or control to deploy an operations-oriented approach.

Performance Targets and Key Measures

We target a total return of 12% to 15% per annum on the infrastructure assets that we own, measured over the long term. We intend to generate this return from the in-place cash flows from our operations plus growth through investments in upgrades and expansions of our asset base, as well as acquisitions. We determine our distributions to unitholders based primarily on an assessment of our operating performance. Funds from operations (FFO) is used to assess our operating performance and can be used on a per unit basis as a proxy for future distribution growth over the long-term. In addition, we have performance measures that track the key value drivers for each of our operating segments. See "Segmented Disclosures" on page 50 for more detail.

Distribution Policy

Our distributions are underpinned by stable, highly regulated and contracted cash flows generated from operations. The partnership's objective is to pay a distribution that is sustainable on a long-term basis. The partnership has set its target payout ratio target at 60-70% of Funds from Operations. In sizing what we believe to be a conservative payout ratio, we typically retain approximately 15-20% of AFFO that we utilize to fund some or all of our internally funded growth capital expenditures.

In light of the current prospects for our business, the Board of Directors of our General Partner approved a 7% increase in our annual distribution to \$2.01 per unit, or \$0.5025 per unit quarterly, starting with the distribution paid in March 2019. This increase reflects the forecasted contribution from our recently commissioned capital projects, as well as the expected cash yield on acquisitions that we closed in the past year. Since inception, we have increased our quarterly distribution from \$0.18 per unit to \$0.5025 per unit, a compound annual growth rate of 10%. We target 5% to 9% annual distribution growth in light of the per unit growth we foresee in our operations.

Basis of Presentation

Our unaudited interim condensed and consolidated financial statements are prepared in accordance with International Accounting Standard 34, Interim Financial Reporting (“IAS 34”) as issued by the International Accounting Standards Board (“IASB”) and using the accounting policies Brookfield Infrastructure applied in its consolidated financial statements as of and for the year-ended December 31, 2018, with the exception of newly adopted accounting standards described in Note 2, Summary of Accounting Policies. Our unaudited interim condensed and consolidated financial statements include the accounts of Brookfield Infrastructure and the entities over which it has control. Brookfield Infrastructure accounts for investments over which it exercises significant influence, but does not control, using the equity method.

Our partnership’s equity interests include units held by public unitholders and redeemable partnership units (“Redeemable Partnership Units”) held by Brookfield. Our units and the Redeemable Partnership Units have the same economic attributes in all respects, except that the Redeemable Partnership Units provide Brookfield the right to request that its units be redeemed for cash consideration. In the event that Brookfield exercises this right, our partnership has the right, at its sole discretion, to satisfy the redemption request with our units, rather than cash, on a one-for-one basis. As a result, Brookfield, as holder of Redeemable Partnership Units, participates in earnings and distributions on a per unit basis equivalent to the per unit participation of our partnership. However, given the redeemable feature referenced above, we present the Redeemable Partnership Units as a component of non-controlling interests.

When we discuss the results of our operating segments, we present Brookfield Infrastructure’s proportionate share of results for operations accounted for using consolidation and the equity method, in order to demonstrate the impact of key value drivers of each of these operating segments on our partnership’s overall performance. As a result, segment revenues, costs attributable to revenues, other income, interest expense, depreciation and amortization, deferred taxes, fair value adjustments and other items will differ from results presented in accordance with IFRS as they (1) include Brookfield Infrastructure’s proportionate share of earnings from investments in associates and joint ventures attributable to each of the above noted items, and (2) exclude the share of earnings (losses) of consolidated investments not held by Brookfield Infrastructure apportioned to each of the above noted items. However, net income for each segment is consistent with results presented in accordance with IFRS. See “Reconciliation of Operating Segment Measures” on page 74 for a reconciliation of segment results to our partnership’s statement of operating results in accordance with IFRS.

Our presentation currency and functional currency is the U.S. dollar. Except for the adoption of IFRS 16, there were no changes in accounting policies that have had a material impact on the comparability of the results between financial years since the adoption of IFRS.

OUR OPERATIONS

We own a portfolio of infrastructure assets that are diversified by sector and by geography. We have a stable cash flow profile with approximately 95% of our Adjusted EBITDA supported by regulated or contracted revenues. In order to assist our unitholders and preferred unitholders in evaluating our performance and assessing our value, we group our businesses into operating segments based on similarities in their underlying economic drivers.

Our operating segments are summarized below:

Operating Segment	Asset Type	Primary Location
Utilities <i>Regulated or contractual businesses which earn a return on their asset base</i>	<ul style="list-style-type: none"> • Regulated Transmission • Regulated Distribution • Regulated Terminal 	<ul style="list-style-type: none"> • North & South America • Europe & South America • Asia Pacific
Transport <i>Provide transportation for freight, bulk commodities and passengers</i>	<ul style="list-style-type: none"> • Rail • Toll Roads • Ports 	<ul style="list-style-type: none"> • Asia Pacific & South America • Asia Pacific & South America • Europe, North America & Asia Pacific
Energy <i>Systems that provide energy transmission, gathering, processing and storage services</i>	<ul style="list-style-type: none"> • Natural Gas Midstream • Distributed Energy 	<ul style="list-style-type: none"> • North America & Asia Pacific • North America & Asia Pacific
Data Infrastructure <i>Provide critical infrastructure and services to global communication companies</i>	<ul style="list-style-type: none"> • Data Transmission & Distribution • Data Storage 	<ul style="list-style-type: none"> • Europe, Asia Pacific • North & South America, Asia Pacific

REVIEW OF CONSOLIDATED FINANCIAL RESULTS

In this section we review our consolidated performance and financial position as of September 30, 2019 and December 31, 2018 and for the three and nine-month periods ended September 30, 2019 and 2018. Further details on the key drivers of our operations and financial position are contained within the “Segmented Disclosures” section on page 50.

US\$ MILLIONS, EXCEPT PER UNIT INFORMATION	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Summary Statements of Operating Results				
Revenues	\$ 1,664	\$ 1,167	\$ 4,942	\$ 3,224
Direct operating costs	(850)	(603)	(2,488)	(1,479)
General and administrative expenses	(75)	(57)	(200)	(169)
Depreciation and amortization expense	(317)	(188)	(932)	(569)
Interest expense	(229)	(140)	(682)	(379)
Share of earnings (losses) from investments in associates and joint ventures	36	(32)	88	(36)
Mark-to-market on hedging items	70	31	104	58
Gain on sale of associate	—	—	—	338
Income tax expense	(58)	(65)	(194)	(322)
Net income	205	87	624	633
Net income attributable to our partnership ⁽¹⁾	82	5	210	339
Net income (loss) per limited partnership unit	\$ 0.07	\$ (0.10)	\$ 0.14	\$ 0.53

1. Includes net income attributable to non-controlling interests—Redeemable Partnership Units held by Brookfield, non-controlling interests—Exchange LP Units, general partner and limited partners.

Three-month periods ended September 30, 2019 and 2018

Net income for the three-month period ended September 30, 2019 was \$205 million, of which \$82 million was attributable to our partnership. This compares to net income of \$87 million in the prior year, of which \$5 million was attributable to our partnership. Net income for the period benefited from strong organic growth across all of our operating groups and contributions from new investments completed in the last year. Prior year results also included a one-time charge in our transport segment.

Revenues for the three-month period ended September 30, 2019 were \$1,664 million, which represents an increase of \$497 million compared to the same period in 2018. Our energy segment generated higher revenue of \$381 million, primarily a result of recently completed acquisitions, namely our North American residential energy infrastructure operation, Western Canadian natural gas gathering and processing operation, and contracted gas pipeline in India. Our utilities segment contributed additional revenue of \$86 million due to the benefits of inflation-indexation and organic growth, primarily at our Brazilian natural gas transmission operation, U.K. regulated distribution operation and Colombian natural gas transmission operation. Our Data Infrastructure segment contributed increased revenues of \$77 million from recently acquired data center operations in the U.S. and Australia. Organic growth initiatives within our transport businesses contributed incremental revenue of \$23 million compared to the prior year. These positive impacts were partially offset by \$70 million of foreign exchange, as all of the major currencies we operate in depreciated against the U.S. dollar relative to the prior year.

Direct operating expenses for the three-month period ended September 30, 2019 were \$850 million, an increase of \$247 million compared to the three-month period ended September 30, 2018. The current period includes \$264 million of incremental costs related to our recently completed acquisitions and \$43 million of costs associated with organic growth initiatives. These increases were partially offset by the impacts of IFRS 16 and foreign exchange which reduced direct costs by \$14 million and \$46 million, respectively.

General and administrative expenses totaled \$75 million for the three-month period ended September 30, 2019, an increase of \$18 million compared to the same period in 2018. This line item primarily consists of the base management fee that is paid to Brookfield, which is equal to 1.25% of our partnership’s market value plus preferred units outstanding and net recourse debt. The base management fee increased from the prior year due to a larger capitalization as a result of a higher unit price and borrowing levels used to fund investments completed in the last year.

Depreciation and amortization expense for the three-month period ended September 30, 2019 was \$317 million, an increase of \$129 million from the prior year. This increase is primarily associated with incremental charges from recently completed acquisitions, the impact of higher asset values from our most recent revaluation process and capital expenditures. In addition, depreciation and amortization was higher than the previous year as a result of the new charges associated with the recognition of \$1.2 billion of right-of-use assets upon adoption of IFRS 16.

Interest expense for the three-month period ended September 30, 2019 was \$229 million, an increase of \$89 million compared to the same period in 2018. Interest expense increased due to additional asset-level borrowings used partially to fund new investments and organic growth opportunities, and interest expense recognized on lease liabilities upon the adoption of IFRS 16.

Our partnership's share of earnings from investments in associates and joint ventures was \$36 million for the three-month period ended September 30, 2019, representing an increase of \$68 million relative to the same period in 2018. The increase is the result of organic growth in the current period. Prior year results also included a one-time charge in our transport segment.

Mark-to-market gains on hedging items for the three-month period ended September 30, 2019 were \$70 million, compared to \$31 million in the prior year. Amounts in both the current and comparative periods consist of mark-to-market movements relating to foreign exchange hedging activities at the corporate level and commodity contracts at our North American gas storage operations. The gain in the current period resulted from the depreciation of the Canadian dollar, Australian dollar, British pound and Euro relative to the U.S. dollar.

Income tax expense for the three-month period ended September 30, 2019 was \$58 million compared to \$65 million for the same period in 2018. The impact of higher taxable income generated as a result of new acquisitions and organic growth at our operations was more than offset by the tax recoveries resulting from capital reinvestments.

Nine-month periods ended September 30, 2019 and 2018

Net income for the nine-month period ended September 30, 2019 was \$624 million, of which \$210 million was attributable to our partnership. This compares to net income of \$633 million in the prior year, of which \$339 million was attributable to our partnership. Net income for the period benefited from organic growth across the majority of our operations, contributions from new investments made in the past 12 months and unrealized gains on our corporate hedging activities. These increases were offset by the impact of foreign exchange. Prior year results also included \$209 million (net of tax) realized on the sale of our investment in an electricity transmission business and a one-time charge in our transport segment.

Revenues for the nine-month period ended September 30, 2019 were \$4,942 million, which represents an increase of \$1,718 million compared to the same period in 2018. Our energy segment contributed additional revenue of \$1,104 million, predominantly relating to recently completed acquisitions, namely our North American residential energy infrastructure operation, Western Canadian natural gas gathering and processing operation, and a contracted gas pipeline in India. Our utilities segment contributed additional revenue of \$543 million as a result of contributions from recent acquisitions and the benefits of inflation-indexation and various organic growth initiatives across the majority of our utility operations. New investments in the U.S. and Australia added \$235 million of revenues to our data infrastructure segment relative to last year. Transport revenues have increased organically by \$83 million compared to the prior year, primarily as a result of higher traffic volumes and inflationary tariff increases. These items were partially offset by \$247 million of foreign exchange, predominantly associated with the depreciation of the Brazilian real, Colombian peso and Australia dollar relative to the prior year.

Direct operating expenses for the nine-month period ended September 30, 2019 were \$2,488 million, an increase of \$1,009 million compared to the nine-month period ended September 30, 2018. The current period includes \$1,053 million of incremental costs related to recent acquisitions and \$106 million of costs associated with organic growth initiatives. These increases were partially offset by the impact of IFRS 16 and foreign exchange which reduced direct costs by \$44 million and \$106 million, respectively.

General and administrative expenses totaled \$200 million for the nine-month period ended September 30, 2019, an increase of \$31 million compared to the same period in 2018. This line item primarily consists of the base management fee that is paid to Brookfield, which is equal to 1.25% of our partnership's market value plus preferred units outstanding and net recourse debt. The base management fee increased from prior year due to a higher unit price and additional borrowings used to fund growth initiatives.

Depreciation and amortization expense for the nine-month period ended September 30, 2019 was \$932 million, an increase of \$363 million from the prior year. The increase is primarily due to incremental charges from recently completed acquisitions, the impact of higher asset values from our most recent revaluation process and capital expenditures. In addition, depreciation and amortization was higher than the previous year as a result of new charges associated with the recognition of \$1.2 billion of right-of-use assets upon adoption of IFRS 16.

Interest expense for the nine-month period ended September 30, 2019 was \$682 million, an increase of \$303 million compared to the same period in 2018. Interest expense increased due to additional asset-level borrowings used to fund new investments and organic growth opportunities. The issuance of \$1.5 billion of five-year senior notes at our Brazilian regulated gas transmission business in May of 2018, the issuance of C\$500 million of corporate medium term notes in September 2018 and the impact of lease liabilities recognized upon adoption of IFRS 16 also contributed to the increase in interest expense during the current period.

Our partnership's share of earnings from investments in associates and joint ventures was \$88 million for the nine-month period ended September 30, 2019, representing an increase of \$124 million relative to the same period in 2018. The increase is the result of organic growth in the current period. In addition, prior year results were impacted by a one-time charge in our transport segment and the reclassification of previously recognized foreign exchange losses into net income related to our Chilean electricity transmission business sold in March 2018.

Mark-to-market gains on hedging items for the nine-month period ended September 30, 2019 were \$104 million, compared to gains of \$58 million for the nine-month period ended September 30, 2018. Amounts in both the current and comparative periods consist of mark-to-market movements relating to foreign exchange hedging activities at the corporate level and commodity contracts at our North American gas storage operations. The gains in the current period resulted from the depreciation of the Australian dollar, British pound and Euro relative to the US dollar.

Income tax expense for the nine-month period ended September 30, 2019 was \$194 million compared to \$322 million for the same period in 2018. The decrease is primarily attributable to income taxes recognized on disposal of a 28% interest in our Chilean electricity transmission business in the prior year and tax recoveries resulting from capital reinvestments. The decrease was partially offset by higher taxable income generated as a result of new acquisitions and organic growth at our operations.

US\$ MILLIONS Summary Statements of Financial Position Key Metrics	As of	
	September 30, 2019	December 31, 2018
Cash and cash equivalents	\$ 677	\$ 540
Total assets	40,692	36,580
Corporate borrowings	2,107	1,993
Non-recourse borrowings	13,848	13,113
Total liabilities	24,484	21,912
Limited Partners' capital	4,738	4,513
General Partner capital	22	22
Non-controlling interest – Redeemable Partnership Units held by Brookfield	1,912	1,823
Non-controlling interest – Exchange LP Units	18	71
Non-controlling interest – in operating subsidiaries	8,583	7,303
Preferred unitholders	935	936

Total assets were \$40.7 billion at September 30, 2019, compared to \$36.6 billion at December 31, 2018. Acquisitions completed in 2019, including a natural gas pipeline in India and Brazilian electricity transmission lines, have added \$3.3 billion to consolidated assets. In addition, equity and preferred share issuances, capital expenditures made during the year and the adoption of IFRS 16 increased total assets by \$0.9 billion, \$0.6 billion and \$1.2 billion, respectively. These increases were partially offset by depreciation and amortization charges of \$0.9 billion and foreign exchange of \$1.0 billion.

The increase in corporate borrowings during the nine-month period ended September 30, 2019 is due to higher amounts drawn on the corporate revolving credit facility, and a 3% appreciation of the Canadian dollar relative to the U.S. dollar as at the reporting dates.

Non-recourse borrowings have increased by \$0.7 billion since year-end. The increase is attributable to additional net borrowings of \$1 billion primarily associated with our recent acquisitions, partially offset by the impact of foreign exchange as asset-level debt denominated in non-U.S. dollar currencies have depreciated relative to the U.S. dollar, and non-recourse borrowings reclassified as held for sale.

Partnership capital increased by \$0.3 billion since year-end. The increase is attributable to the July 2019 equity issuance, a gain on the sell-down of a 17% non-controlling interest in our Chilean toll road operation recognized directly in equity and comprehensive gains recognized during the nine-month period ended September 30, 2019. These increases were partially offset by distributions paid to our unitholders and repurchases of our partnership's units.

Foreign Currency Translation

Due to the nature of our global operations, current period financial results may be impacted by foreign currency movements. The most significant currency exchange rates that impact our business are shown in the following table:

	Period End Rate			Average Rate					
	As of			For the three-month period ended September 30			For the nine-month period ended September 30		
	September 30, 2019	December 31, 2018	Change	2019	2018	Change	2019	2018	Change
Australian dollar	0.6750	0.7050	(4)%	0.6854	0.7315	(6)%	0.6992	0.7579	(8)%
Brazilian real	0.2401	0.2581	(7)%	0.2520	0.2531	— %	0.2572	0.2774	(7)%
British pound	1.2292	1.2760	(4)%	1.2325	1.3032	(5)%	1.2730	1.3516	(6)%
Canadian dollar	0.7553	0.7331	3 %	0.7574	0.7652	(1)%	0.7524	0.7769	(3)%

As at September 30, 2019, our consolidated partnership capital of \$16.2 billion was invested in the following currencies: Brazilian reais - 22%; Canadian dollars - 22%; British pounds - 11%; United States dollars - 11%; Australian dollars - 10%; and other currencies - 24%. Currency exchange rates relative to the U.S. dollar at the end of the third quarter of 2019 were lower than December 31, 2018 for most of our significant non-U.S. dollar investments, which decreased the carrying values of the assets and liabilities from our subsidiaries or investments in these regions.

The following table disaggregates the impact of foreign currency translation on our partnership capital by the most significant non-U.S. currencies:

	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Australian dollar	\$ (68)	\$ (42)	\$ (75)	\$ (137)
Brazilian real	(405)	(182)	(351)	(1,128)
British pound	(57)	(21)	(65)	(57)
Canadian dollar	(32)	(24)	105	16
Other	(170)	(31)	(113)	(56)
	(732)	(300)	(499)	(1,362)
Currency hedges	28	39	(56)	28
	<u>\$ (704)</u>	<u>\$ (261)</u>	<u>\$ (555)</u>	<u>\$ (1,334)</u>
Attributable to:				
Unitholders	\$ (372)	\$ (149)	\$ (340)	\$ (696)
Non-controlling interests	(332)	(112)	(215)	(638)
	<u>\$ (704)</u>	<u>\$ (261)</u>	<u>\$ (555)</u>	<u>\$ (1,334)</u>

The impact of foreign currency translation on partnership capital, including those attributable to non-controlling interests for the three and nine-month periods ended September 30, 2019 was a reduction of \$0.7 billion and \$0.6 billion, respectively.

We use financial contracts and locally denominated debt to hedge most foreign currency exposures. We are largely hedged against the Australian, British and European currencies and as a result, the income in the quarter was partially offset by higher currency hedges. We have also entered into hedges to reduce foreign currency exposures to Canadian, Chilean, and Peruvian currencies.

Average currency exchange rates impact the U.S. dollar equivalents of revenues and net income from non-U.S. operations on a comparative basis. During the three and nine-month periods ended September 30, 2019, the majority of the foreign currencies in which we operate have depreciated relative to the U.S. dollar, decreasing U.S. dollar revenue and net income in these currencies.

Summary of Quarterly Results

Quarterly results for the eight most recent quarters are as follows:

US\$ MILLIONS, EXCEPT PER UNIT AMOUNTS	2019			2018			2017	
	Q3	Q2	Q1	Q4	Q3	Q2	Q1	Q4
Three-month period ended								
Revenues	\$ 1,664	\$ 1,685	\$ 1,593	\$ 1,428	\$ 1,167	\$ 1,044	\$ 1,013	\$ 984
Direct operating costs	(850)	(840)	(798)	(729)	(603)	(467)	(409)	(399)
Earnings (losses) from investment in associates and joint ventures	36	34	18	23	(32)	1	(5)	35
Expenses								
Interest	(229)	(241)	(212)	(176)	(140)	(125)	(114)	(113)
General and administrative expenses	(75)	(64)	(61)	(54)	(57)	(54)	(58)	(66)
Valuation items								
Fair value changes and other	34	64	(8)	(45)	5	80	(60)	6
Depreciation and amortization	(317)	(323)	(292)	(232)	(188)	(188)	(193)	(130)
Gain on sale of associates	—	—	—	—	—	—	338	—
Income tax expense	(58)	(61)	(75)	(42)	(65)	(72)	(185)	(75)
Net income	205	254	165	173	87	219	327	242
Net income attributable to others	176	212	171	147	107	155	205	212
Net income (loss) attributable to limited partners	29	42	(6)	26	(20)	64	122	30
Net income (loss) per limited partnership unit	\$ 0.07	\$ 0.12	\$ (0.05)	\$ 0.06	\$ (0.10)	\$ 0.21	\$ 0.42	\$ 0.09

A significant driver of our results continues to be from organic growth which consists of inflation-indexation, GDP-linked volume increases and reinvested capital. In addition, results have benefited over the last eight quarters from the contribution of new investments. On a constant currency basis, these items resulted in increases in our revenues, direct operating costs, interest charges and depreciation and amortization expense. In addition to the aforementioned items, net income is impacted by fair value adjustments, and other income and expenses which primarily consist of foreign currency hedges.

We do not consider the effects of seasonality to be significant to the business overall. This is primarily due to the diversification of our business from a geographic and a segment perspective.

SELECTED STATEMENTS OF OPERATING RESULTS AND FINANCIAL POSITION INFORMATION

To measure performance, we focus on net income, an IFRS measure, as well as certain non-IFRS measures, including but not limited to FFO, AFFO, Adjusted EBITDA, Adjusted Earnings and Invested Capital. We define FFO as net income excluding the impact of depreciation and amortization, deferred income taxes, breakage and transaction costs, and non-cash valuation gains or losses. We define AFFO as FFO less capital expenditures required to maintain the current performance of our operations (maintenance capital expenditures). We define Adjusted EBITDA as net income excluding the impact of depreciation and amortization, interest expense, current and deferred income taxes, breakage and transaction costs, and non-cash valuation gains or losses. We define Adjusted Earnings as net income attributable to our partnership, excluding the impact of depreciation and amortization expense from revaluing property, plant and equipment and the effects of purchase price accounting, mark-to-market on hedging items and disposition gains or losses. We define Invested Capital as partnership capital removing the following items: non-controlling interest - in operating subsidiaries, retained earnings or deficit, accumulated other comprehensive income and ownership changes.

Along with net income and other IFRS measures, FFO, Adjusted EBITDA, Adjusted Earnings and Invested Capital are key measures of our financial performance that we use to assess the results and performance of our operations on a segmented basis. AFFO is also a measure of operating performance and represents the ability of our businesses to generate sustainable earnings. Adjusted Earnings is a measure of operating performance used to assess the ability of our businesses to generate recurring earnings which allows users to better understand and evaluate the underlying financial performance of our partnership. Invested Capital, which tracks the amount of capital that has been contributed to our partnership, is a measure we utilize to assess returns on capital deployed, relative to targeted returns.

Since they are not calculated in accordance with, and do not have any standardized meanings prescribed by IFRS, FFO, AFFO, Adjusted EBITDA, Adjusted Earnings and Invested Capital are unlikely to be comparable to similar measures presented by other issuers and have limitations as analytical tools. Specifically, our definition of FFO may differ from the definition used by other organizations, as well as the definition of Funds from Operations used by the Real Property Association of Canada (“REALPAC”) and the National Association of Real Estate Investment Trusts, Inc. (“NAREIT”), in part because the NAREIT definition is based on U.S. GAAP, as opposed to IFRS.

For further details regarding our use of FFO, AFFO, Adjusted EBITDA, Adjusted Earnings and Invested Capital, as well as a reconciliation of the most directly comparable IFRS measures to these measures, see the “Reconciliation of Non-IFRS Financial Measures” section of this MD&A.

US\$ MILLIONS, EXCEPT PER UNIT INFORMATION	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Key Metrics				
Net income attributable to partnership ⁽¹⁾	\$ 82	\$ 5	\$ 210	\$ 339
Net income (loss) per limited partnership unit ⁽²⁾	0.07	(0.10)	0.14	0.53
Funds from Operations (FFO) ⁽³⁾	338	278	1,026	905
Per unit FFO ⁽⁴⁾	0.82	0.71	2.55	2.31
Adjusted Funds from Operations (AFFO) ⁽⁵⁾	261	209	822	729
Return on invested capital ⁽⁶⁾	11 %	10 %	12 %	11 %
Adjusted EBITDA ⁽⁷⁾	463	369	1,407	1,182
Adjusted earnings ⁽⁸⁾	126	101	435	395
Adjusted earnings per unit ⁽⁴⁾	0.30	0.26	1.07	1.01
Distributions per unit	0.50	0.47	1.51	1.41
FFO payout ratio ⁽⁹⁾	78 %	82 %	74 %	76 %

1. Net income attributable to partnership includes net income attributable to non-controlling interests—Redeemable Partnership Units held by Brookfield, non-controlling interests—Exchange LP Units, general partner and limited partners.
2. Average number of limited partnership units outstanding on a time weighted average basis for the three and nine-month periods were 290.9 million and 282.9 million, respectively (2018: 276.8 million and 276.7 million).
3. FFO is defined as net income excluding the impact of depreciation and amortization, deferred income taxes, breakage and transaction costs, and non-cash valuation gains or losses. Refer to the “Reconciliation of Non-IFRS Financial Measures” section of this MD&A for reconciliation from net income to FFO.
4. Average units outstanding during the three and nine-month periods were 414.6 million and 404.0 million, respectively (2018: 394.2 million and 394.1 million) being inclusive of limited partnership units, the Redeemable Partnership Units, the Exchange LP Units and the general partner units.
5. AFFO is defined as FFO less maintenance capital expenditures. Refer to the “Reconciliation of Non-IFRS Financial Measures” section of this MD&A for reconciliation from net income to AFFO.
6. Return on invested capital is calculated as AFFO adjusted for an estimate of the portion of earnings that represent a return of capital on concession-based businesses, divided by Invested Capital. The return of capital estimate for the three and nine-month periods ended September 30, 2019 were \$28 million and \$81 million, respectively (2018: \$21 million and \$68 million). Refer to the “Reconciliation of Non-IFRS Financial Measures” section of this MD&A for reconciliation from partnership capital to Invested Capital.
7. Adjusted EBITDA is defined as net income excluding the impact of depreciation and amortization, interest expense, current and deferred income taxes, breakage and transaction costs, and non-cash valuation gains or losses. Refer to the “Reconciliation of Non-IFRS Financial Measures” section of this MD&A for reconciliation from net income to Adjusted EBITDA.
8. Adjusted Earnings is defined as net income attributable to our partnership, excluding the impact of depreciation and amortization expense from revaluing property, plant and equipment and the effects of purchase price accounting, mark-to-market on hedging items and disposition gains or losses. Refer to the “Reconciliation of Non-IFRS Financial Measures” section of this MD&A for reconciliation from net income to Adjusted Earnings.
9. Payout ratio is defined as distributions paid per unit (inclusive of GP incentive and preferred unit distributions) divided by FFO.

For the three months ended September 30, 2019, FFO totaled \$338 million (\$0.82 per unit) compared to FFO of \$278 million (\$0.71 per unit) for the same quarter in 2018. FFO increased by 15% on a per unit basis compared to 2018 due to organic growth of 9% and incremental earnings on capital deployed over the past 12 months. Organic growth was generated by inflation-indexation across approximately 75% of our businesses, solid GDP-driven volume growth, predominantly at our transport operations, and contributions from accretive capital projects commissioned during the period. The partnership paid distributions of \$0.5025 per unit, an increase of 7% compared to the prior year.

The third quarter results reflect the benefit of the most recent phase of our asset rotation strategy, a critical part of our full cycle investment plan. Last year, we generated combined proceeds of \$1.5 billion from selling an interest in a mature, de-risked electricity transmission business in Chile and completing a financing at our Brazilian regulated gas transmission business. These monetizations occurred at values that represented a 7% average FFO yield and the proceeds were subsequently redeployed into seven higher growth businesses across our utilities, energy and data infrastructure segments that generated an average FFO yield of 12%. These initiatives contributed additional FFO per unit of \$0.05 in 2019. For the nine months ended September 30, 2019, FFO totaled \$1,026 million (\$2.55 per unit) compared to FFO of \$905 million (\$2.31 per unit) for the same period in 2018. FFO increased by 10% on a per unit basis compared to 2018, predominantly due to organic growth.

The following tables present selected statement of operating results and financial position information by operating segment on a proportionate basis:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Statements of Operating Results				
Net income (loss) by segment				
Utilities	\$ 85	\$ 67	\$ 269	\$ 190
Transport	16	(46)	39	(10)
Energy	18	5	59	13
Data Infrastructure	—	3	(9)	7
Corporate	(37)	(24)	(148)	139
Net income	<u>\$ 82</u>	<u>\$ 5</u>	<u>\$ 210</u>	<u>\$ 339</u>
Adjusted EBITDA by segment				
Utilities	\$ 190	\$ 172	\$ 561	\$ 552
Transport	174	158	547	509
Energy	128	73	378	221
Data Infrastructure	46	23	121	69
Corporate	(75)	(57)	(200)	(169)
Adjusted EBITDA	<u>\$ 463</u>	<u>\$ 369</u>	<u>\$ 1,407</u>	<u>\$ 1,182</u>
FFO by segment				
Utilities	\$ 145	\$ 130	\$ 425	\$ 438
Transport	128	119	402	389
Energy	100	59	303	179
Data Infrastructure	36	19	94	57
Corporate	(71)	(49)	(198)	(158)
FFO	<u>\$ 338</u>	<u>\$ 278</u>	<u>\$ 1,026</u>	<u>\$ 905</u>

US\$ MILLIONS	As of	
	September 30, 2019	December 31, 2018
Statements of Financial Position		
Total assets by segment		
Utilities	\$ 4,797	\$ 4,864
Transport	5,872	6,424
Energy	5,223	4,722
Data Infrastructure	2,012	1,446
Corporate	(811)	(929)
Total assets	<u>\$ 17,093</u>	<u>\$ 16,527</u>
Net debt by segment		
Utilities	\$ 3,051	\$ 3,077
Transport	2,599	2,797
Energy	2,185	1,905
Data Infrastructure	760	564
Corporate	1,808	1,755
Net debt	<u>\$ 10,403</u>	<u>\$ 10,098</u>
Partnership capital by segment		
Utilities	\$ 1,746	\$ 1,787
Transport	3,273	3,627
Energy	3,038	2,817
Data Infrastructure	1,252	882
Corporate	(2,619)	(2,684)
Partnership capital	<u>\$ 6,690</u>	<u>\$ 6,429</u>

SEGMENTED DISCLOSURES

In this section, we review the results of our principal operating segments: utilities, transport, energy and data infrastructure. Each segment is presented on a proportionate basis, taking into account Brookfield Infrastructure's ownership in operations accounted for using the consolidation and equity methods, whereby our partnership either controls or exercises significant influence or joint control over its investments. See "Discussion of Segment Reconciling Items" on page 77 for a reconciliation of segment results to our partnership's statement of operating results in accordance with IFRS.



Utilities

Our utilities segment is comprised of businesses from which we earn a regulated return. These include regulated transmission (natural gas and electricity), regulated distribution (electricity and natural gas connections), and a regulated terminal (coal export terminal). These businesses earn a return on a regulated or notionally stipulated asset base, which we refer to as rate base, or from revenues in accordance with long-term concession agreements, private bilateral contracts approved or ratified by the regulator, or price control frameworks. Our rate base increases with capital that we invest to upgrade and expand our systems. Depending on the jurisdiction, our rate base may also increase by inflation and maintenance capital expenditures and decrease by regulatory depreciation. The return that we earn is typically determined by a regulator for prescribed periods of time. Thereafter, it may be subject to customary reviews based upon established criteria. Our diversified portfolio of assets allows us to mitigate exposure to any single regulatory regime. In addition, due to the franchise frameworks and economies of scale of our businesses, we often have significant competitive advantages in competing for projects to expand our rate base and earn incremental revenues. Accordingly, we expect this segment to produce stable revenue and margins over time that should increase with investment of additional capital and inflation. Nearly all of our utilities segment's Adjusted EBITDA is supported by regulated or contractual revenues.

The objectives for our utilities segment are to invest capital in the expansion of our rate base, as well as to provide safe and reliable service for our customers on a cost-efficient basis. If we do so, we will be in a position to earn an appropriate return on our rate base. Our performance can be measured by the growth in our rate base, the return on our rate base, and the growth in our AFFO.

Our utilities segment is comprised of the following:

Regulated Transmission

- Approximately 2,700 kilometers of natural gas pipelines in North and South America
- Approximately 2,200 kilometers of operating transmission lines in North and South America along with an additional 3,600 kilometers of greenfield electricity transmission under development in South America

Regulated Distribution

- Approximately 6.9 million connections, predominantly electricity and natural gas, and approximately 1.3 million acquired smart meters

Regulated Terminal

- One of the world's largest metallurgical coal export terminals, with 85 million tons per annum ("mtpa") of capacity

Results of Operations

The following table presents our proportionate share of the key metrics of our utilities segment:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Rate base	\$ 4,542	\$ 4,505	\$ 4,542	\$ 4,505
Funds from Operations (FFO) ⁽¹⁾	145	130	425	438
Maintenance capital expenditures	(4)	(4)	(12)	(13)
Adjusted Funds from Operations (AFFO) ⁽¹⁾	\$ 141	\$ 126	\$ 413	\$ 425
Return on rate base ^{(2),(3)}	12 %	11 %	12 %	11 %

1. Non-IFRS measure. Refer to the “Reconciliation of Non-IFRS Financial Measures” and “Reconciliation of Operating Segment Measures” sections of this MD&A for reconciliation from net income.
2. Return on rate base is Adjusted EBITDA divided by time weighted average rate base.
3. Return on rate base excludes impact of connections revenues at our U.K. regulated distribution operation.

For the three-month period ended September 30, 2019, our utilities segment generated FFO of \$145 million, compared with \$130 million for the same period in the prior year. FFO reflects benefits from strong organic growth, primarily due to inflation-indexation across our portfolio, capital commissioned at our U.K. regulated distribution business in the last 12 months, and the impact of higher rates on foreign currency contracts.

The following table presents our proportionate Adjusted EBITDA and FFO for the businesses in this operating segment:

US\$ MILLIONS	Adjusted EBITDA ⁽¹⁾				FFO ⁽¹⁾			
	For the three-month period ended September 30		For the nine-month period ended September 30		For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018	2019	2018	2019	2018
Regulated Transmission	\$ 75	\$ 69	\$ 228	\$ 251	\$ 58	\$ 53	\$ 175	\$ 210
Regulated Distribution	87	77	249	222	69	60	196	177
Regulated Terminal	28	26	84	79	18	17	54	51
Total	\$ 190	\$ 172	\$ 561	\$ 552	\$ 145	\$ 130	\$ 425	\$ 438

1. Non-IFRS measure. Refer to the “Reconciliation of Non-IFRS Financial Measures” and “Reconciliation of Operating Segment Measures” sections of this MD&A for reconciliation from net income.

For the three-month period ended September 30, 2019, our regulated transmission operations generated Adjusted EBITDA of \$75 million and FFO of \$58 million, compared to \$69 million and \$53 million, respectively, in the prior year. Adjusted EBITDA and FFO have increased due to the benefits of inflation-indexation and incremental contribution from acquiring the remaining 50% interest in 800km of operating electricity transmission lines in Brazil.

For the three-month period ended September 30, 2019, our regulated distribution operations generated Adjusted EBITDA of \$87 million and FFO of \$69 million, compared to \$77 million and \$60 million, respectively, in the 2018 period. Adjusted EBITDA and FFO increased due to the benefit of inflation-indexation and contributions from new connections added to rate base and smart meters adopted in the last 12 months at our U.K. regulated distribution business.

For the three-month period ended September 30, 2019, our regulated terminal reported Adjusted EBITDA of \$28 million and FFO of \$18 million, compared to \$26 million and \$17 million, respectively, in the same period of 2018. Adjusted EBITDA and FFO increased compared with the prior year driven by inflation-indexation and the positive impact of higher hedge rates on our Australian dollar contracts.

The following table presents the roll-forward of our proportionate rate base:

US\$ MILLIONS	For the three-month period ended September 30, 2019	For the nine-month period ended September 30, 2019	For the 12 month period ended December 31, 2018
Rate base, start of period	\$ 4,770	\$ 4,511	\$ 5,638
Acquisitions	—	—	63
Impact of asset sales	—	—	(969)
Capital expenditures commissioned	89	219	395
Inflation and other indexation	48	187	65
Regulatory depreciation	(53)	(75)	(68)
Foreign exchange and other	(312)	(300)	(613)
Rate base, end of period	\$ 4,542	\$ 4,542	\$ 4,511

As of September 30, 2019, our rate base was \$4.5 billion, relatively consistent with year-end. Our rate base has increased as a result of new connections at our U.K. regulated distribution business, inflation-indexation at our Brazilian regulated gas transmission business, partially offset by the impact of foreign exchange.

The following table presents the roll-forward of our proportionate share of capital backlog and capital to be commissioned:

US\$ MILLIONS	For the three-month period ended September 30, 2019	For the nine-month period ended September 30, 2019	For the 12 month period ended December 31, 2018
Capital backlog, start of period	\$ 854	\$ 815	\$ 1,140
Impact of asset sales	—	—	(124)
Additional capital project mandates	89	388	365
Less: capital expenditures	(115)	(307)	(402)
Foreign exchange and other	(61)	(129)	(164)
Capital backlog, end of period	767	767	815
Construction work in progress	258	258	190
Total capital to be commissioned	\$ 1,025	\$ 1,025	\$ 1,005

As of September 30, 2019, capital backlog was \$767 million compared to \$815 million as of December 31, 2018. Capital backlog relates to projects that have been awarded or filed with regulators with anticipated commissioning into rate base in the next three years. Total capital backlog decreased as new connections and smart meters awarded at our U.K. regulated distribution business and the addition of 900 km of greenfield electricity transmission lines awarded in Brazil was more than offset by capital commissioned into rate base and the impact of foreign exchange. Our U.K. regulated distribution business and Brazil electricity transmission system are the largest contributors to our capital expected to be commissioned to rate base; comprised of \$670 million and \$300 million of total projects, respectively.

Recent Developments

Subsequent to quarter end, Brookfield Infrastructure, alongside institutional partners, acquired a co-controlling interest in two operational natural gas pipelines in Mexico for approximately \$135 million. These pipelines were built in 2016 and represent critical infrastructure supplying Mexico's growing Central and West gas demand regions with low-cost natural gas from Texas. It will provide secure cash flows generated under a long-term take-or-pay arrangement through 2041 with an investment-grade off-taker. In addition, foreign exchange risk is minimized as revenues are dollarized with an inflation-linked escalator.

Brookfield Infrastructure agreed to sell our Colombian regulated distribution operation during September 2019. In seven years of ownership, we grew EBITDA by approximately 10% annually. This was achieved by commissioning several accretive capital projects, improving margins by reducing energy line losses, and enhancing the balance sheet with long-term investment grade financing.



Transport

Our transport segment is comprised of open access systems that provide transportation, storage and handling services for freight, bulk commodities and passengers, for which we are paid an access fee or for services provided. Profitability is based on the volume and price achieved for the provision of these services. This operating segment is comprised of businesses with price ceilings as a result of regulation, such as our rail and toll road operations, as well as unregulated businesses, such as our ports. Transport businesses typically have high barriers to entry and, in many instances, have very few substitutes in their local markets. While these businesses have greater sensitivity to market prices and volume than our utilities segment, revenues are generally stable and, in many cases, are supported by contracts or customer relationships. The diversification within our transport segment mitigates the impact of fluctuations in demand from any particular sector, commodity or customer. Approximately 85% of our transport segment's Adjusted EBITDA is supported by contractual or regulated revenues.

Our objectives for our transport segment are to provide safe and reliable service to our customers and to satisfy their growth requirements by increasing the utilization of our assets and expanding our capacity in a capital efficient manner. If we do so, we will be able to charge an appropriate price for our services and earn an attractive return on the capital deployed. Our performance can be measured by our revenue growth and our Adjusted EBITDA margin.

Our transport segment is comprised of the following:

Rail

- Sole provider of rail network in southern half of Western Australia with approximately 5,500 kilometers of track and operator of approximately 4,800 kilometers of rail in South America

Toll Roads

- Approximately 4,200 kilometers of motorways in Brazil, Chile, Peru and India

Ports

- 13 terminals in North America, U.K., and Australia

Results of Operations

The following table presents our proportionate share of the key metrics of our transport segment:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Growth capital expenditures	\$ 33	\$ 73	\$ 127	\$ 158
Adjusted EBITDA margin ⁽¹⁾	56 %	41 %	51 %	42 %
Funds from Operations (FFO) ⁽²⁾	128	119	402	389
Maintenance capital expenditures	(35)	(35)	(116)	(107)
Adjusted Funds from Operations (AFFO) ⁽²⁾	\$ 93	\$ 84	\$ 286	\$ 282

1. Adjusted EBITDA margin is Adjusted EBITDA divided by revenues. It is calculated net of construction revenues and costs which are incurred at our Peruvian toll road operation during the construction of our toll roads. Adjusted EBITDA margin is a non-IFRS measure. Refer to the "Reconciliation of Non-IFRS Financial Measures" and "Reconciliation of Operating Segment Measures" sections of this MD&A for reconciliation from net income to Adjusted EBITDA.

2. Non-IFRS measure. Refer to the "Reconciliation of Non-IFRS Financial Measures" and "Reconciliation of Operating Segment Measures" sections of this MD&A for reconciliation from net income.

For the three-month period ended September 30, 2019, our transport segment generated FFO of \$128 million compared to \$119 million for the same period in the prior year. Results for the segment benefited from organic growth of 9% due to increased rail volumes in Australia, GDP-linked volume growth at our port operations, and higher traffic and tariffs across our global toll road portfolio. The current period also benefited from the impact of higher rates on our foreign currency contracts when converting foreign denominated adjusted EBITDA and FFO into U.S. dollars. These positive factors were partially offset by the impact of the sale of a 33% interest in our Chilean toll road operation in February and the impact of the sale of our European port operation completed in June.

The following table presents proportionate Adjusted EBITDA and FFO for each business in this operating segment:

US\$ MILLIONS	Adjusted EBITDA ⁽¹⁾				FFO ⁽¹⁾			
	For the three-month period ended September 30		For the nine-month period ended September 30		For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018	2019	2018	2019	2018
Rail	\$ 67	\$ 60	\$ 211	\$ 199	\$ 51	\$ 45	\$ 161	\$ 152
Toll Roads	82	76	236	241	58	56	168	178
Ports	25	22	100	69	19	18	73	59
Total	\$ 174	\$ 158	\$ 547	\$ 509	\$ 128	\$ 119	\$ 402	\$ 389

1. Non-IFRS measure. Refer to the "Reconciliation of Non-IFRS Financial Measures" and "Reconciliation of Operating Segment Measures" sections of this MD&A for reconciliation from net income.

For the three-month period ended September 30, 2019, our rail business generated Adjusted EBITDA of \$67 million and FFO of \$51 million compared to \$60 million and \$45 million, respectively, in the prior year. Results benefited from strong volumes in Australia, higher tariffs in Brazil and higher hedge rates on our Australian dollar contracts. The prior year results were also impacted by tariff relief provided to one of our iron ore customers.

For the three-month period ended September 30, 2019, our toll roads contributed Adjusted EBITDA of \$82 million and FFO of \$58 million compared to \$76 million and \$56 million, respectively, in the prior year. Adjusted EBITDA and FFO increased compared to prior year as the benefits from inflationary tariff increases and traffic growth of 4% and 5% respectively, across our portfolio. These positive impacts were partially offset by the impact of the sale of a 33% interest in our Chilean operation completed in February.

For the three-month period ended September 30, 2019, our port operations reported Adjusted EBITDA of \$25 million and FFO of \$19 million compared to \$22 million and \$18 million, respectively, in 2018. Adjusted EBITDA and FFO increased compared to prior year as volumes benefited from strong container levels at our U.K. operation and higher tariffs earned at our Australian operations, partially offset by the impact of the sale of our European port operation completed in June.

The following table presents the roll-forward of our proportionate share of capital backlog and capital to be commissioned:

US\$ MILLIONS	For the three-month period ended September 30, 2019	For the nine-month period ended September 30, 2019	For the 12 month period ended December 31, 2018
Capital backlog, start of period	\$ 387	\$ 500	\$ 637
Additional capital project mandates	23	31	174
Less: capital expenditures	(33)	(127)	(208)
Foreign exchange and other	(37)	(64)	(103)
Capital backlog, end of period	340	340	500
Construction work in progress	183	183	162
Total capital to be commissioned	\$ 523	\$ 523	\$ 662

As of September 30, 2019, capital backlog was \$340 million compared to \$500 million as of December 31, 2018. Capital to be commissioned includes projects such as upgrading and expanding our rail networks, increasing and widening lanes on certain routes to support traffic growth, and deepening berths and enhancing and modernizing existing infrastructure at our ports. Capital backlog decreased as mandates awarded were more than offset by capital expenditures made during the period and the impact of foreign exchange. Our South American toll road businesses and Brazilian rail operation are the largest contributors to capital to be commissioned at approximately \$480 million and \$15 million, respectively.

Recent Developments

In July 2019, Brookfield Infrastructure announced the \$8.4 billion take-private acquisition of Genesee & Wyoming, Inc. ("G&W"), which we will be acquiring alongside institutional investors (BIP's share of equity - approximately \$500 million). G&W owns 120 short line railroads and 26,000 kilometers of track and serves over 3,000 customers. G&W shareholder and Surface Transportation Board (STB) approvals were received in October 2019. The transaction is on track to close in the fourth quarter, following receipt of the remaining customary regulatory approvals.

In September 2019, Brookfield Infrastructure reached an agreement to sell a further 33% interest in our Chilean toll road business at a purchase price consistent with the sale of the initial 33% interest that closed earlier this year. The sale is expected to close in the fourth quarter and will result in approximately \$170 million in proceeds to BIP.



Our energy segment is comprised of systems that provide natural gas midstream (transmission, gathering and processing) and storage services, as well as distributed energy. Profitability is based on the volume and price achieved for the provision of these services. This operating segment is comprised of businesses that are subject to regulation, such as our natural gas transmission business whose services are subject to price ceilings, and businesses that are essentially unregulated like our district energy business. Energy businesses typically have high barriers to entry as a result of significant fixed costs combined with economies of scale or unique positions in their local markets. Our energy segment is expected to benefit from forecasted increases in demand for energy. Although these businesses have greater sensitivity to market prices and volume than our utilities segment, revenues are typically contracted with varying durations and are relatively stable.

Our objectives for our energy segment are to provide safe and reliable service to our customers and to satisfy their growth requirements by increasing the utilization of our assets and expanding our capacity in a capital efficient manner. If we do so, we will be able to charge an appropriate price for our services and earn an attractive return on the capital deployed. Our performance can be measured by our revenue growth, our Adjusted EBITDA margin and our growth in AFFO.

Our energy segment is comprised of the following:

Natural Gas Midstream

- Approximately 16,500 kilometers of natural gas transmission pipelines in the U.S. and India
- Approximately 600 billion cubic feet (“Bcf”) of natural gas storage in the U.S. and Canada
- 13 natural gas processing plants with approximately 1.0 Bcf per day of total processing capacity and approximately 1,200 kilometers of gas gathering pipelines in Canada

Distributed Energy

- Delivers heating and cooling to customers from centralized systems including heating plants capable of delivering 3,192,000 pounds per hour of steam heating capacity, centralized gas distribution and cogeneration for heating, cooling and energy, 305,000 tons of contracted cooling capacity, as well as servicing approximately 28,000 natural gas, water and wastewater connections
- Provides residential energy infrastructure, including water heater rentals, heating, ventilation, and air conditioner (“HVAC”) rentals, as well as other essential home services to approximately 1.6 million customers annually in Canada and the United States, and delivers approximately 270,000 contracted sub-metering services within Canada

Results of Operations

The following table presents our proportionate share of the key metrics of our energy segment:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Growth capital expenditures	\$ 55	\$ 22	\$ 138	\$ 71
Adjusted EBITDA margin ⁽¹⁾	49 %	50 %	50 %	51 %
Funds from Operations (FFO) ⁽²⁾	100	59	303	179
Maintenance capital expenditures	(34)	(27)	(68)	(47)
Adjusted Funds from Operations (AFFO) ⁽²⁾	\$ 66	\$ 32	\$ 235	\$ 132

1. Adjusted EBITDA margin is Adjusted EBITDA divided by revenues. Adjusted EBITDA margin is a non-IFRS measure. Refer to the “Reconciliation of Non-IFRS Financial Measures” and “Reconciliation of Operating Segment Measures” sections of this MD&A for reconciliation from net income to Adjusted EBITDA.
2. Non-IFRS measure. Refer to the “Reconciliation of Non-IFRS Financial Measures” and “Reconciliation of Operating Segment Measures” sections of this MD&A for reconciliation from net income.

For the three-month period ended September 30, 2019, our energy segment generated FFO of \$100 million compared with \$59 million in the same period of the prior year. FFO benefited from strong transportation volumes and capital commissioned at our North American natural gas transmission business, contributions from two North American energy businesses acquired in 2018 and a recently acquired natural gas pipeline business in India. These positive impacts were partially offset by the impact of lower spreads at our gas storage operations.

The following table presents proportionate Adjusted EBITDA and FFO for each business in this operating segment:

US\$ MILLIONS	Adjusted EBITDA ⁽¹⁾				FFO ⁽¹⁾			
	For the three-month period ended September 30		For the nine-month period ended September 30		For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018	2019	2018	2019	2018
Natural Gas Midstream	\$ 83	\$ 57	\$ 261	\$ 179	\$ 61	\$ 45	\$ 204	\$ 142
Distributed Energy	45	16	117	42	39	14	99	37
Total	\$ 128	\$ 73	\$ 378	\$ 221	\$ 100	\$ 59	\$ 303	\$ 179

1. Non-IFRS measure. Refer to the "Reconciliation of Non-IFRS Financial Measures" and "Reconciliation of Operating Segment Measures" sections of this MD&A for reconciliation from net income.

For the three-month period ended September 30, 2019, our natural gas midstream operations generated Adjusted EBITDA of \$83 million and FFO of \$61 million compared to \$57 million and \$45 million, respectively, during the same period of 2018. Adjusted EBITDA and FFO increased relative to the prior year due to strong transportation volumes and the contribution from the Gulf Coast expansion project at our North American natural gas transmission business. Additionally, current period results benefited from the contributions from the provincially regulated portion of our Western Canadian midstream energy business and a natural gas pipeline in India acquired in the last 12 months. These positive factors were partially offset by lower spreads at our gas storage operations.

For the three-month period ended September 30, 2019, our distributed energy operations generated Adjusted EBITDA of \$45 million and FFO of \$39 million, compared to \$16 million and \$14 million, respectively, during the comparative period. Adjusted EBITDA and FFO increased compared to the prior year as a result of the contribution from our North American residential energy infrastructure business acquired in October of last year and new customer connections completed in the last 12 months at our North America district energy operations.

The following table presents the roll-forward of our proportionate share of capital backlog and capital to be commissioned:

US\$ MILLIONS	For the three-month period ended September 30, 2019	For the nine-month period ended September 30, 2019	For the 12 month period ended December 31, 2018
Capital backlog, start of period	\$ 223	\$ 290	\$ 143
Impact of acquisitions	—	—	102
Additional capital project mandates	69	103	195
Less: capital expenditures	(55)	(138)	(135)
Foreign exchange and other	(2)	(20)	(15)
Capital backlog, end of period	235	235	290
Construction work in progress	119	119	72
Total capital to be commissioned	\$ 354	\$ 354	\$ 362

As of September 30, 2019, capital backlog was \$235 million compared to \$290 million as of December 31, 2018. Capital backlog decreased as additional capital project mandates were more than offset by the commissioning of the first phase of an expansion project at our Western Canadian midstream energy business, capital expenditures made during the period, and the impact of foreign exchange. Total capital to be commissioned includes approximately \$255 million within our Natural Gas Midstream operation and approximately \$95 million in our Distributed Energy segment.

Recent Developments

Brookfield Infrastructure reached an agreement to divest our district energy and distribution business in Australia during September 2019, for approximately \$280 million. One of the core components of this business is a gas distribution network that serves the state of Tasmania, which we acquired as part of the Babcock and Brown recapitalization in 2009. Over the last decade, we made a substantial investment in the business to expand its newly built network and increase customer connections. The sale is expected to close in the fourth quarter of 2019.



Data Infrastructure

Our data infrastructure segment is comprised of critical infrastructure servicing customers in the telecommunications, fiber and data storage sectors. Our data transmission and distribution operations provide essential services and infrastructure to the media broadcasting and telecom sectors, while our data storage operations provide services and infrastructure to enterprise customers. These services and access to infrastructure are contracted on a medium to long-term basis with inflation escalation mechanisms, leading to predictable recurring revenues and cash flows.

These operations generate stable, inflation-linked cash flows, which are underpinned by medium to long-term contracts (up to 20 years in both our data transmission and distribution businesses and data center operations). Our data transmission and distribution customer base includes large, prominent telecommunications companies in France. Within our data storage operations, our customers include approximately 1,100 colocation customers predominantly in the United States that are diversified across multiple industries, and global hyperscale customers in Asia Pacific and South America.

Our objectives for the data infrastructure segment are to invest capital to enhance and expand our service offerings while providing safe, reliable and secure access to our properties. If we are able to achieve these objectives, we will be able to attract new customers and maintain low levels of churn on existing customers. Our performance in both our data transmission and distribution and data storage businesses can be measured by the growth in revenues and Adjusted EBITDA margin improvements.

Our data infrastructure segment is comprised of the following:

Data Transmission & Distribution

- Approximately 7,000 multi-purpose towers and active rooftop sites
- 10,000 kilometers of fiber backbone located in France

Data Storage

- 50 data centers, with approximately 1.6 million square feet of raised floors located in the U.S., Brazil and Australia
- 173 megawatts (“MWs”) of critical load capacity

Results of Operations

The following table presents our proportionate share of the key metrics of our data infrastructure segment:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Growth capital expenditures	\$ 33	\$ 9	\$ 74	\$ 32
Adjusted EBITDA margin ⁽¹⁾	51 %	55 %	55 %	56 %
Funds from Operations (FFO) ⁽²⁾	36	19	94	57
Maintenance capital expenditures	(4)	(3)	(8)	(9)
Adjusted Funds from Operations (AFFO) ⁽²⁾	\$ 32	\$ 16	\$ 86	\$ 48

1. Adjusted EBITDA margin is Adjusted EBITDA divided by revenues. Adjusted EBITDA margin is a non-IFRS measure. Refer to the “Reconciliation of Non-IFRS Financial Measures” and “Reconciliation of Operating Segment Measures” sections of this MD&A for reconciliation from net income to Adjusted EBITDA.
2. Non-IFRS measure. Refer to the “Reconciliation of Non-IFRS Financial Measures” and “Reconciliation of Operating Segment Measures” sections of this MD&A for reconciliation from net income.

For the three-month period ended September 30, 2019, our data infrastructure segment generated FFO of \$36 million compared with \$19 million in the same period of the prior year. Results benefited from organic growth of 5% due to the contribution from capital expenditure projects commissioned and inflationary price increases at our French telecom business. The current period also benefited from the acquisitions of an integrated telecom business in New Zealand and data centers in Brazil, Asia Pacific and the United States.

The following table presents our data infrastructure segment's proportionate share of financial results:

US\$ MILLIONS	Adjusted EBITDA ⁽¹⁾				FFO ⁽¹⁾			
	For the three-month period ended September 30		For the nine-month period ended September 30		For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018	2019	2018	2019	2018
Data Transmission & Distribution	\$ 32	\$ 23	\$ 82	\$ 69	\$ 27	\$ 19	\$ 69	\$ 57
Data Storage	14	—	39	—	9	—	25	—
Total	<u>\$ 46</u>	<u>\$ 23</u>	<u>\$ 121</u>	<u>\$ 69</u>	<u>\$ 36</u>	<u>\$ 19</u>	<u>\$ 94</u>	<u>\$ 57</u>

1. *Non-IFRS measure. Refer to the "Reconciliation of Non-IFRS Financial Measures" and "Reconciliation of Operating Segment Measures" sections of this MD&A for reconciliation from net income.*

For the three-month period ended September 30, 2019, our data transmission and distribution operations generated Adjusted EBITDA of \$32 million and FFO of \$27 million compared to \$23 million and \$19 million, respectively, during the same period of 2018. Adjusted EBITDA and FFO increased relative to the prior year due to the benefits of inflationary price increases, new points-of-presence added to our existing tower portfolio and the roll-out of our build-to-suit strategy targeted towards large telecom customers. Results also benefited from the initial contribution from an integrated telecom business in New Zealand acquired in July.

For the three-month period ended September 30, 2019, our data storage operations generated Adjusted EBITDA of \$14 million and FFO of \$9 million, respectively. Results include the initial contributions from recently completed data center acquisitions in Brazil, Asia Pacific and the United States.

The following table presents the roll-forward of our proportionate share of capital backlog and capital to be commissioned:

US\$ MILLIONS	For the three-month period ended September 30, 2019	For the nine-month period ended September 30, 2019	For the 12 month period ended December 31, 2018
Capital backlog, start of period	\$ 161	\$ 200	\$ 198
Impact of acquisitions	4	4	—
Additional capital project mandates	51	74	109
Less: capital expenditures	(33)	(74)	(52)
Foreign exchange and other	(9)	(30)	(55)
Capital backlog, end of period	<u>174</u>	<u>174</u>	<u>200</u>
Construction work in progress	32	32	14
Total capital to be commissioned	<u>\$ 206</u>	<u>\$ 206</u>	<u>\$ 214</u>

As of September 30, 2019, capital backlog was \$174 million compared to \$200 million as of December 31, 2018. Capital backlog decreased as the addition of several new data centers in Brazil was more than offset by new towers commissioned, reflecting continued progress in the roll-out of our built-to-suit strategy, and the impact of foreign exchange.

Recent Developments

Brookfield Infrastructure recently secured an exclusive agreement to acquire a portfolio of 130,000 communication towers in India from Reliance Jio. The communication towers were recently constructed, with low maintenance requirements and over 30 years of remaining useful life. These towers are unlike most Indian telecom towers as they are largely connected by fiber backhaul, which gives us a unique platform to capitalize on the rollout of 5G. This business generates stable and predictable cash flows that will benefit from expected increases in data usage. In India, the growth in data consumption has been robust, with per-capita usage having increased 10-fold in the last two years alone and is a trend that is expected to continue. There will also be further growth as we execute a tower build-out program with Reliance Jio, who have committed to partially fund the expansion. Brookfield Infrastructure is expected to invest approximately \$400 million, upon completion of the transaction.



The following table presents the components of the Corporate segment on a proportionate basis:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Adjusted EBITDA ⁽¹⁾	\$ (75)	\$ (57)	\$ (200)	\$ (169)
Funds from Operations (FFO) ⁽¹⁾	(71)	(49)	(198)	(158)

1. *Non-IFRS measure. Refer to the “Reconciliation of Non-IFRS Financial Measures” and “Reconciliation of Operating Segment Measures” sections of this MD&A for reconciliation from net income.*

For the three-month period ended September 30, 2019, Adjusted EBITDA and FFO for our Corporate segment were losses of \$75 million and \$71 million, respectively, compared to losses of \$57 million and \$49 million, respectively, in the prior year. Adjusted EBITDA and FFO decreased from prior year primarily as a result of a higher management fee and higher financing costs due to higher average net debt balances.

Pursuant to our Master Services Agreement, we pay Brookfield an annual base management fee equal to 1.25% of our partnership’s market value plus preferred units outstanding and net recourse debt. The base management fee of \$73 million has increased from the prior year due to a higher share price and additional units, recourse debt and preferred shares issued in the past 12 months.

CAPITAL RESOURCES AND LIQUIDITY

The nature of our asset base and the quality of our associated cash flows enable us to maintain a stable and low-cost capital structure. We attempt to maintain sufficient financial liquidity at all times so that we are able to participate in attractive opportunities as they arise, better withstand sudden adverse changes in economic circumstances and maintain our distribution to unitholders. Our principal sources of liquidity are cash flows from our operations, undrawn credit facilities and access to public and private capital markets. We also structure the ownership of our assets to enhance our ability to monetize them to provide additional liquidity, if necessary. In certain instances, subsidiaries may be subject to limitations on their ability to declare and pay dividends to our partnership. However, no significant limits existed at September 30, 2019 and December 31, 2018.

Our group-wide liquidity at September 30, 2019 consisted of the following:

US\$ MILLIONS	As of	
	September 30, 2019	December 31, 2018
Corporate cash and financial assets	\$ 299	\$ 238
Committed corporate credit facility	1,975	1,975
Subordinate corporate credit facility	500	500
Draws under corporate credit facility	(578)	(510)
Commitments under corporate credit facility	(42)	(47)
Proportionate cash retained in businesses	391	404
Proportionate availability under subsidiary credit facilities	675	817
Group-wide liquidity	\$ 3,220	\$ 3,377

At September 30, 2019, we believe that group-wide liquidity is sufficient to meet Brookfield Infrastructure’s present requirements. We finished the quarter with group-wide liquidity of \$3.2 billion, down from \$3.4 billion at December 31, 2018. The decrease is primarily a result of capital deployed in new investments and organic growth initiatives, partially offset by cash generated from operations and raised in capital markets. In July 2019, our partnership raised approximately \$800 million of equity which was not yet contributing to third quarter results as it was raised to fund secured investments we expect to close in the fourth quarter.

We finance our assets principally at the operating company level with debt that generally has long-term maturities, few restrictive covenants and no recourse to either Brookfield Infrastructure or our other operations. On a proportionate basis as of September 30, 2019, scheduled principal repayments over the next five years are as follows:

US\$ MILLIONS	Average Term (years)	2019	2020	2021	2022	2023	Beyond	Total
Recourse borrowings								
Corporate borrowings	4	\$ —	\$ 283	\$ —	\$ 340	\$ 578	\$ 906	\$ 2,107
Total recourse borrowings	4	—	283	—	340	578	906	2,107
Non-recourse borrowings⁽¹⁾								
Utilities								
Regulated Transmission	6	15	54	6	7	356	153	591
Regulated Distribution	10	9	11	20	175	259	1,164	1,638
Regulated Terminal	3	—	143	277	171	143	209	943
	7	24	208	303	353	758	1,526	3,172
Transport								
Rail	4	15	89	109	162	183	448	1,006
Toll Roads	8	57	176	158	170	113	820	1,494
Ports	4	6	46	64	88	11	89	304
	6	78	311	331	420	307	1,357	2,804
Energy								
Energy Transmission, Distribution & Storage	7	1	9	25	353	159	1,081	1,628
Distributed Energy	6	—	88	—	62	172	260	582
	7	1	97	25	415	331	1,341	2,210
Data Infrastructure								
Data Transmission & Distribution	4	—	101	—	174	—	258	533
Data Storage	5	—	2	46	21	48	150	267
	4	—	103	46	195	48	408	800
Total non-recourse borrowings⁽¹⁾	7	103	719	705	1,383	1,444	4,632	8,986
Total borrowings⁽²⁾	7	\$ 103	\$ 1,002	\$ 705	\$ 1,723	\$ 2,022	\$ 5,538	\$11,093
Cash retained in businesses								
Utilities								\$ 121
Transport								205
Energy								25
Data Infrastructure								40
Corporate								299
Total cash retained								\$ 690
Net debt								
Utilities								\$ 3,051
Transport								2,599
Energy								2,185
Data Infrastructure								760
Corporate								1,808
								\$10,403
Total net debt		1 %	9 %	6 %	16 %	18 %	50 %	100 %

1. Represents non-recourse debt to Brookfield Infrastructure as the holders have recourse only to the underlying operations.

2. As of September 30, 2019, approximately 37% has been issued as floating rate debt. Brookfield Infrastructure and its subsidiaries have entered into interest rate swaps whereby the floating rate debt has been converted to fixed rate debt, effectively reducing floating rate debt maturities to approximately 31% of our total borrowings. Excluding working capital and capital expenditure facilities, floating rate debt maturities approximate 22% of our total borrowings, inclusive of the impact of interest rate swaps. Debt maturity weighted average excludes the impact of temporary borrowings on the Partnership's corporate credit facility.

Our asset-level debt has an average term of seven years. On a proportionate basis, our net debt-to-capitalization ratio as of September 30, 2019 was 54%. The weighted average cash interest rate is 4.8% for the overall business (September 30, 2018: 4.9%), in which our utilities, transport, energy, data infrastructure and corporate segments were 4.0%, 6.3%, 5.7%, 3.5%, and 3.8%, respectively (September 30, 2018: 4.3%, 6.6%, 5.4%, 2.7% and 3.9%).

Proportionate debt, a non-IFRS measure to assess liquidity, can be reconciled to consolidated debt as follows:

US\$ MILLIONS	As of	
	September 30, 2019	December 31, 2018
Consolidated debt	\$ 15,955	\$ 15,106
Add: proportionate share of debt of investments in associates:		
Utilities	186	180
Transport	1,140	1,330
Energy	954	929
Data Infrastructure	613	445
Add: proportionate share of debt directly associated with assets held for sale	61	—
Less: borrowings attributable to non-controlling interest	(7,241)	(6,346)
Premium on debt and cross currency swaps	(575)	(904)
Proportionate debt	\$ 11,093	\$ 10,740

CONTRACTUAL OBLIGATIONS

The table below outlines Brookfield Infrastructure's contractual obligations as at September 30, 2019:

US\$ MILLIONS	Payments due by period				Total contractual cash flows
	Less than 1 year	1-2 years	3-5 years	5+ years	
Accounts payable and other liabilities	\$ 1,320	\$ 38	\$ 12	\$ 211	\$ 1,581
Corporate borrowings	—	283	869	955	2,107
Non-recourse borrowings	1,820	597	5,652	5,824	13,893
Financial liabilities	177	43	1,078	80	1,378
Lease liabilities	119	110	284	1,133	1,646
Interest expense:					
Corporate borrowings	55	46	95	63	259
Non-recourse borrowings	605	531	1,367	1,712	4,215

In addition, pursuant to the Master Services Agreement, on a quarterly basis we pay a base management fee to Brookfield equal to 0.3125% (1.25% annually) of the market value of our partnership plus net recourse debt. This fee is estimated to be approximately \$292 million per year based on the September 30, 2019 market capitalization of our partnership plus preferred units and recourse corporate net debt.

An integral part of our partnership's strategy is to participate with institutional investors in Brookfield-sponsored private infrastructure funds that target acquisitions that suit Brookfield Infrastructure's profile. In the normal course of business, our partnership has made commitments to Brookfield-sponsored private infrastructure funds to participate in these target acquisitions in the future, if and when identified.

FINANCIAL INSTRUMENTS

Foreign Currency Hedging Strategy

To the extent that we believe it is economic to do so, our strategy is to hedge a portion of our equity investments and/or cash flows exposed to foreign currencies. The following key principles form the basis of our foreign currency hedging strategy:

- We leverage any natural hedges that may exist within our operations
- We utilize local currency debt financing to the extent possible
- We may utilize derivative contracts to the extent that natural hedges are insufficient

The following table presents our hedged position in foreign currencies as of September 30, 2019:

US\$ MILLIONS	Net Investment Hedges										
	USD	AUD	NZD	GBP	BRL	CLP	CAD	EUR	COP	PEN	INR
Equity Investment – US\$	\$ 498	\$1,288	\$ 181	\$1,292	\$2,151	\$ 59	\$1,026	\$ 645	\$ 131	\$ 118	\$ 308
FX contracts – US\$	4,758	(1,207)	(161)	(1,292)	—	(302)	(1,026)	(645)	(112)	(13)	—
Net unhedged – US\$	\$5,256	\$ 81	\$ 20	\$ —	\$2,151	\$ (243)	\$ —	\$ —	\$ 19	\$ 105	\$ 308
% of equity investment hedged	N/A %	94 %	89 %	100 %	— %	100 %	100 %	100 %	85 %	11 %	— %

At September 30, 2019, 68% of our net equity investment is U.S. dollar functional. For the three-month period ended September 30, 2019, we recorded income in other comprehensive income of \$43 million (September 30, 2018: \$14 million) related to these contracts.

CAPITAL REINVESTMENT

We fund growth capital expenditures with cash flow generated from operations, supplemented by non-recourse debt sized to investment grade coverage and covenant thresholds. This is designed to ensure that our investments have stable capital structures supported by a substantial level of equity and that cash flows at the asset level can be remitted freely to the partnership. This strategy also underpins our investment grade profile.

To fund large scale development projects and acquisitions, we will evaluate a variety of capital sources including proceeds from selling mature businesses, in addition to raising money in the capital markets through equity, debt and preferred share issuances. Furthermore, the partnership has a \$1.975 billion committed revolving credit facility available for investments and acquisitions, as well as funding the equity component of organic growth initiatives. The facility is intended, and has historically been used, as a bridge to a long-term financing strategy rather than a permanent source of capital.

The following table reconciles changes in our proportionate cash for the year:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Funds from Operations (FFO)	\$ 338	\$ 278	\$ 1,026	\$ 905
Maintenance capital	(77)	(69)	(204)	(176)
Funds available for distribution (AFFO)	261	209	822	729
Distributions paid	(263)	(229)	(764)	(686)
Funds available for reinvestment	(2)	(20)	58	43
Growth capital expenditures	(236)	(206)	(646)	(562)
Debt funding of growth capex	124	95	277	305
Non-recourse debt issuances (repayments)	40	(68)	(42)	305
Proceeds from capital recycling	—	—	502	1,033
New investments, net of disposals	(257)	(60)	(731)	(157)
Draws (repayments) on corporate credit facility	578	—	68	(789)
Partnership unit issuances, net of repurchases	803	4	779	12
Proceeds from debt issuance	—	377	—	377
Preferred unit and preferred shares issued, net of repurchases	—	185	72	342
Deposit repaid to parent	(823)	—	—	—
Impact of foreign currency movements	(27)	(44)	(17)	(180)
Changes in working capital and other	(218)	(37)	(272)	(164)
Change in proportionate cash	(18)	226	48	565
Opening, proportionate cash	708	936	642	597
Closing, proportionate cash	\$ 690	\$ 1,162	\$ 690	\$ 1,162

We present cash flows generated by our businesses on a proportionate basis as over 40% of our FFO is generated by investments that are not consolidated in our financial statements. The partnership participates in arrangements such as joint ventures or consortiums which provide it with access to partners with local strategic expertise and substantial amounts of capital. When investing in such arrangements, which are not consolidated for financial statement purposes, the partnership nevertheless maintains joint control or significant influence over the business, and is therefore, not a passive investor. We structure governance arrangements to require each of our businesses to distribute all available cash (which is generally defined as cash on hand less any amounts reserved for committed growth projects as approved by the investment's Board of Directors), ensuring that any decision to not distribute all available cash flow requires our express consent. Consequently, the partnership has access to operating cash flows generated by all of our businesses, including joint ventures and any non-consolidated investments.

The following table highlights the significance of operating cash flow generated from investments which are not consolidated in our financial statements and reconciles consolidated cash flow from operations to AFFO.

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Cash from operating activities	\$ 589	\$ 337	\$ 1,730	\$ 986
Add: FFO from associates and joint ventures	145	125	436	409
Remove:				
Distributions received from associates and joint ventures	(82)	(8)	(166)	(28)
Cash from operating activities attributable to non-controlling interests ⁽¹⁾	(375)	(249)	(1,056)	(828)
	277	205	944	539
Less: Maintenance capital expenditures	(77)	(69)	(204)	(176)
Taxes paid on disposition of Chilean electricity transmission operation	—	—	—	256
Change in working capital and other items	61	73	82	110
AFFO ⁽²⁾	\$ 261	\$ 209	\$ 822	\$ 729

1. By removing cash from operating activities attributable to non-controlling interests, the partnership is able to present AFFO attributable to the partnership. We believe our proportionate financial information, when read in conjunction with the partnership's reported results under IFRS, provides the most meaningful assessment of how our operations are performing. Please refer to the discussion of the limitations of proportional results as an analytical tool within the "Reconciliation of Non-IFRS Financial Measures" section on page 68.
2. The most closely related IFRS measure to AFFO is net income. However, occasionally we believe the alternative reconciliation can be useful and have therefore provided this reconciliation of consolidate cash flow from operations to AFFO. Please see the "Reconciliation of Non-IFRS Financial Measures" section on page 68 for a reconciliation of AFFO to net income.

From a treasury management perspective, the partnership manages its cash reserves with a view to minimizing foreign exchange and administrative costs, as well as enhancing our ability to secure asset level debt financing. While capital is primarily raised at the corporate level to fund the equity component of organic growth capital expenditures, actual funding of projects may be executed by injecting cash into subsidiaries or utilizing operating cash flow generated and retained by the business. Importantly, the physical movement of cash has no relevance on Brookfield Infrastructure's ability to fund capital expenditures or make distributions.

DISTRIBUTION POLICY

Our distributions are underpinned by stable, highly regulated and contracted cash flows generated from operations. The partnership's objective is to pay a distribution that is sustainable on a long-term basis. The partnership has set its target payout ratio at 60-70% of Funds from Operations. In sizing what we believe to be a conservative payout ratio, we typically retain approximately 15-20% of AFFO that we utilize to fund some or all of our internally funded growth capital expenditures.

The following table presents the partnership's payout ratios:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Funds from Operations (FFO)	\$ 338	\$ 278	\$ 1,026	\$ 905
Adjusted Funds from Operations (AFFO)	261	209	822	729
Distributions (Limited partner, general partner, Exchange LP units, preferred and incentive distributions)	263	229	764	686
FFO payout ratio	78 %	82 %	74 %	76 %
AFFO payout ratio	101 %	110 %	93 %	94 %

The partnership's annual distribution is reviewed with the Board of Directors in the first quarter of each year considering the following:

- The results from the prior year as well as the budget for the upcoming year and the five-year business plan based on the partnership's share of Funds from Operations generated by our assets;
- The partnership's group-wide liquidity and its ability to fund committed capital investments.

CAPITAL EXPENDITURES

Due to the capital-intensive nature of our partnership's asset base, ongoing capital investment is required for additions and enhancements, life-cycle maintenance and repair of plant and equipment related to our operations. Our partnership reviews all capital expenditures and classifies them in one of the two following categories:

- i) Growth capital expenditures: capital outlays underpinned by incremental revenues that will enhance our partnerships' returns. These projects are eligible for inclusion in the rate base of our utilities segment, or they are meant to add capacity to further expand our existing infrastructure networks in our transport, energy and data infrastructure operations;
- ii) Maintenance capital expenditures: required capital outlays to maintain the current operating state and reliability of the system while ensuring regulatory and safety requirements are upheld.

We manage separate review and approval processes for each of the two categories of capital expenditures. Growth capital expenditures are underwritten in isolation and must meet our partnership's target after-tax equity return threshold of 12-15%. Projects that meet these return targets are presented to the Capital Expenditure Committee which comprises senior personnel of the General Partner of our partnership. The committee reviews proposed project plans considering the target returns and funding plans, in addition to analyzing the various execution risks associated with these projects. Once a project receives approval from the Capital Expenditure Committee, it is generally added to the backlog.

Maintenance capital expenditures follow a different, though equally robust process, as failure to make necessary investment to maintain our operations could impair the ability of our businesses to serve our customer base or continue existing operations. Firstly, the operations teams involved with a particular business performs a detailed review of all planned and proposed maintenance capital expenditures during the annual budgeting process. These plans are reviewed in the context of the business's maintenance capital approach that is agreed upon with the partnership at the time of acquisition and take into account drivers of performance that include public and worker health and safety, environmental and regulatory compliance, system reliability and integrity. Maintenance capital projects that receive approval at the asset level are then presented to the partnership's corporate asset management teams that are responsible for overseeing the partnership's operations, and have ample experience in managing utilities, transport, energy and data infrastructure assets. Through an iterative process with the companies' senior operating executives, the plan is refined through a comprehensive review including prioritization of non-discretionary projects and comparisons to industry benchmarks. Once agreed, maintenance capital expenditure plans are approved and form part of the annual and five-year business plans that are presented to the partnership's senior executive team. Once approved, these maintenance plans are executed on in the following year and performance relative to these plans is closely monitored by both the operations and asset management teams.

In addition to the various levels of internal reviews, our partnership engages a reputable, globally recognized engineering services firm annually to perform an independent review of its overall approach to maintenance capital expenditures and detailed capital program. Each year the engineering services firm will review a portion of the portfolio, covering all assets on a three-year rotating basis. For each asset under review in a given year, the engineering services firm will review the historical and forecasted spend against industry standards, regulatory requirements or other benchmarking data, and determine the reasonableness of the maintenance capex program based on the nature of the business and the age and condition of the assets. We have also engaged a Big 4 accounting firm to review the findings of the report provided by the engineering services firm and to assess the control activities around our process for compiling the annual sustaining maintenance capital expenditure ranges by segment.

Over the last two years, reviews were completed at a number of operations that together make up approximately 75% of our partnership's FFO. The results from both engagements conducted by the firms confirm that our stated ranges of annual sustaining maintenance capital expenditures are reasonable and in-line with industry standard for assets of a similar nature. In the next 2-3 years, the partnership intends to complete reviews at the remainder of its existing operations, and for newly acquired businesses it will endeavor to have reviews conducted within 2-3 years of acquisition.

The following table presents the components of growth capital expenditures by operating segment:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Growth capital expenditures by segment				
Utilities	\$ 115	\$ 102	\$ 307	\$ 301
Transport	33	73	127	158
Energy	55	22	138	71
Data Infrastructure	33	9	74	32
	<u>\$ 236</u>	<u>\$ 206</u>	<u>\$ 646</u>	<u>\$ 562</u>

Growth capital expenditures for the three-month period ended September 30, 2019 were \$236 million, an increase from \$206 million in the same period in 2018. The increase in growth capital expenditures is primarily due to two North American energy businesses acquired in 2018 and the build-out of several new data center sites in Brazil, partially offset by timing of spend at our Brazilian toll road operation.

The following table presents the components of maintenance capital expenditures by operating segment:

US\$ MILLIONS	Actual Capex					
	Annual Ongoing Estimated Maintenance Capex		For the three-month period ended September 30		For the nine-month period ended September 30	
	Low	High	2019	2018	2019	2018
Maintenance capital expenditures by segment						
Utilities	\$ 20	\$ 25	\$ 4	\$ 4	\$ 12	\$ 13
Transport	170	180	35	35	116	107
Energy	110	120	34	27	68	47
Data Infrastructure	10	15	4	3	8	9
	<u>\$ 310</u>	<u>\$ 340</u>	<u>\$ 77</u>	<u>\$ 69</u>	<u>\$ 204</u>	<u>\$ 176</u>

Maintenance capital expenditures for the three-month period ended September 30, 2019 were \$77 million, an increase compared to the same period in 2018 predominantly due to the acquisition of two North American energy businesses in 2018. We estimate annual maintenance capital expenditures to be \$20-25 million, \$170-180 million, \$110-120 million, and \$10-15 million for our utilities, transport, energy, and data infrastructure segments, respectively, for a total range between \$310-340 million. As at September 30, 2019, maintenance capital expenditures remain on schedule to meet our annual estimated targets. Our partnership leverages industry data and benchmarks provided by a global engineering services firm to determine the appropriate maintenance capital ranges as disclosed above.

REVIEW OF CONSOLIDATED STATEMENTS OF CASH FLOWS

The following table summarizes the consolidated statements of cash flows:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Cash from operating activities	\$ 589	\$ 337	\$ 1,730	\$ 986
Cash used by investing activities	(815)	(365)	(3,386)	(42)
Cash from (used by) financing activities	242	402	1,839	(129)

This statement reflects activities within our consolidated operations and therefore excludes activities within non-consolidated entities.

Three-month periods ended September 30, 2019 and 2018

Cash from operating activities

Cash from operating activities totaled \$0.6 billion for the three months ended September 30, 2019, an increase of \$0.3 billion from 2018. The increase was primarily due to contributions from recently completed acquisitions and increased cash flows from organic growth initiatives at our existing operations. These increases were partially offset by the impact of foreign exchange.

Cash used by investing activities

Cash used by investing activities was \$0.8 billion in 2019, as compared to \$0.4 billion in 2018. The increase in cash flows used by investing activities is largely due to investments in a Brazilian data center operation and a New Zealand integrated data provider for \$0.4 billion and an increase in the acquisition of long-lived assets and financial assets by \$0.2 billion. These increases were partially offset by \$0.2 billion of incremental investment activity in subsidiaries relative to the prior period.

Cash from financing activities

Cash from financing activities was \$0.2 billion during 2019 as compared to \$0.4 billion in 2018. The decrease is due to the return of a \$0.8 billion deposit to parent, a decrease in capital provided by non-controlling interests of \$0.2 billion, and an increase in our distribution of \$0.1 billion. These decreases were partially offset by an increase in proceeds from net unit issuances of \$0.6 billion and borrowings of \$0.3 billion.

PARTNERSHIP CAPITAL

The total number of partnership units in the Holding LP outstanding is comprised of the following:

	As of	
	September 30, 2019	December 31, 2018
Redeemable Partnership Units, held by Brookfield	121,952,992	115,824,992
Special General Partner Units	1,600,410	1,600,410
Managing General Partner Units	293,438,444	277,347,890
Total	416,991,846	394,773,292

An affiliate of Brookfield in its capacity as the special general partner of the Holding LP is entitled to incentive distributions which are based on the amount by which quarterly distributions on the limited partnership units exceed specified target levels. To the extent distributions on limited partnership units exceed \$0.203 per quarter, the incentive distribution rights entitle the special general partner to 15% of incremental distributions above this threshold to \$0.22 per unit.

To the extent that distributions on limited partnership units exceed \$0.22 per unit, the incentive distribution rights entitled the special general partner to 25% of incremental distributions above this threshold. During the three and nine-month periods ended September 30, 2019, an incentive distribution of \$41 million and \$117 million, respectively, was paid to the special general partner (2018: \$34 million and \$102 million).

In July 2019, Brookfield Infrastructure issued 13.5 million L.P units at \$42.5 per unit under shelf registrations in the U.S. and Canada. In total, \$575 million of gross proceeds were raised through the issuance and \$24 million in equity issuance costs were incurred. Concurrently, Brookfield Infrastructure issued approximately 6.1 million Redeemable Partnership Units to Brookfield for gross proceeds of \$250 million.

CAPITAL MANAGEMENT

Our partnership's approach to capital management is focused on maximizing returns to unitholders and ensuring capital is deployed in a manner consistent with achieving our investment return objectives.

Invested Capital, which tracks the amount of capital that has been contributed to our partnership, is a measure we utilize to assess returns on capital deployed, relative to targeted returns. Investment decisions are based on, amongst other measures and factors, targeted returns on Invested Capital of 12% to 15% annually over the long-term. We measure return on Invested Capital as Adjusted Funds from Operations ("AFFO"), less estimated returns of capital on operations that are not perpetual in life, divided by the weighted average Invested Capital for the period.

We define Invested Capital as partnership capital removing the impact of the following items: non-controlling interest in operating subsidiaries, retained earnings or deficit, accumulated other comprehensive income and ownership changes.

Weighted average Invested Capital for the three and nine-month periods ended September 30, 2019 were \$8,855 million and \$8,414 million, respectively. See "Reconciliation of Non-IFRS Financial Measures" on page 68 for more details.

ENTERPRISE VALUE

The following section contains information to assist users in the calculation of the enterprise value of our partnership.

Enterprise Value

We define Enterprise Value as the market value of our partnership plus preferred units and proportionate debt, net of proportionate cash.

The following table presents Enterprise Value as of September 30, 2019 and December 31, 2018:

US\$ MILLIONS	As of	
	September 30, 2019	December 31, 2018
Partnership units outstanding, end of period ⁽¹⁾	418.2	399.2
Price ⁽²⁾	\$ 49.61	\$ 34.53
Market capitalization	20,747	13,784
Preferred units and preferred shares ⁽³⁾	1,007	936
Proportionate net debt ⁽⁴⁾	10,403	10,098
Enterprise value	\$ 32,157	\$ 24,818

1. Includes limited partner, general partner and redeemable partnership units held by Brookfield and Exchange LP units.

2. Market value of our partnership is calculated based on the closing price of our units on the New York Stock Exchange.

3. Preferred units and BIPIC preferred shares on Brookfield Infrastructure's Consolidated Statements of Financial Position.

4. Please see "Capital Resources and Liquidity" for a detailed reconciliation of Brookfield Infrastructure's proportionate net debt to our partnership's consolidated debt on the Consolidated Statements of Financial Position.

RELATED PARTY TRANSACTIONS

In the normal course of operations, Brookfield Infrastructure entered into the transactions below with related parties. The immediate parent of Brookfield Infrastructure is our partnership. The ultimate parent of Brookfield Infrastructure is Brookfield. Other related parties of Brookfield Infrastructure represent its subsidiary and operating entities.

Throughout the year, the General Partner, in its capacity as our partnership's general partner, incurs director fees, a portion of which are charged at cost to our partnership in accordance with the limited partnership agreement. Less than \$1 million in director fees were incurred during the three and nine-month periods ended September 30, 2019 (2018: less than \$1 million for the three and nine-month periods).

As of September 30, 2019, Brookfield Infrastructure had financial assets balance of \$21 million receivable from Brookfield. Brookfield Infrastructure also has loans payable of \$73 million to subsidiaries of Brookfield (December 31, 2018: \$73 million). The loans are repayable in full between 2019 and 2026 with interest rates ranging from 3.8% to 8.5% per annum.

Since inception, Brookfield Infrastructure has had a management agreement (the "Master Services Agreement") with certain service providers (the "Service Provider"), which are wholly-owned subsidiaries of Brookfield.

Pursuant to the Master Services Agreement, on a quarterly basis, Brookfield Infrastructure pays a base management fee, referred to as the Base Management Fee, to the Service Provider equal to 0.3125% per quarter (1.25% annually) of the market value of our partnership. The Base Management Fee was \$73 million and \$194 million, respectively, for the three and nine-month periods ended September 30, 2019 (2018: \$55 million and \$163 million). As of September 30, 2019, \$73 million was outstanding as payable to the Service Provider (December 31, 2018: \$51 million).

For purposes of calculating the Base Management Fee, the market value of our partnership is equal to the aggregate value of all the outstanding units of our partnership (assuming full conversion of Brookfield's Redeemable Partnership Units in the Holdings LP into units of our partnership), preferred units and securities of the other Service Recipients (as defined in Brookfield Infrastructure's Master Services Agreement) that are not held by Brookfield Infrastructure, plus all outstanding third party debt with recourse to a Service Recipient, less all cash held by such entities.

Brookfield Infrastructure, from time to time, will place deposits with, or receive deposits from, Brookfield. As of September 30, 2019, Brookfield Infrastructure's deposit balance from Brookfield was \$nil (December 31, 2018: deposit with Brookfield of less than \$1 million). Deposits bear interest at market rates and are provided to Brookfield Infrastructure to fund our partnership's recent acquisitions. Brookfield Infrastructure incurred interest expense of \$2 million and \$6 million, respectively, for the three and nine-month periods ended September 30, 2019 (2018: interest income of less than \$1 million for the three and nine-month periods) related to deposits received and repaid during the nine-month period ended September 30, 2019.

Brookfield Infrastructure has entered into a \$500 million revolving credit facility with Brookfield to provide additional liquidity for general corporate purposes and capital expenditures, if required. As of September 30, 2019, there were \$nil borrowings outstanding (December 31, 2018: \$nil).

Brookfield Infrastructure's subsidiaries provide heating, cooling and connection services in the normal course of operations on market terms to subsidiaries and associates of Brookfield Property Partners L.P. In addition, our subsidiaries lease office space and obtain construction, consulting and engineering services in the normal course of operations on market terms from subsidiaries and associates of Brookfield Property Partners L.P. For the three and nine-month periods ended September 30, 2019, revenues of \$9 million and \$20 million, respectively, were generated (2018: \$6 million and \$10 million) and expenses of \$5 million and \$11 million, respectively, were incurred (2018: \$1 million and \$3 million).

Brookfield Infrastructure utilizes a wholly-owned subsidiary of Brookfield to negotiate and purchase insurance and assess the adequacy of insurance on behalf of our partnership and certain subsidiaries. During the three and nine-month periods ended September 30, 2019, Brookfield Infrastructure paid less than \$1 million for these services (2018: less than \$1 million for the three and nine-month periods).

Brookfield Infrastructure's U.K. port operation provides port marine services on market terms to a subsidiary acquired by Brookfield Business Partners L.P. For the three and nine-month periods ended September 30, 2019, revenues of \$1 million and \$3 million, respectively, were generated (2018: \$1 million and \$3 million).

Brookfield Infrastructure's subsidiaries purchase electricity from, and distribute electricity on behalf of, a subsidiary of Brookfield Renewable Partners L.P. in the normal course of operations on market terms. For the three and nine-month periods ended September 30, 2019, revenues of less than \$1 million and \$2 million, respectively, were generated (2018: less than \$1 million for the three and nine-month periods) and expenses of \$14 million and \$39 million, respectively, were incurred (2018: \$3 million and \$9 million).

OFF-BALANCE SHEET ARRANGEMENTS

We do not have any off-balance sheet arrangements that have or are reasonably likely to have a material current or future effect on our financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditures or capital resources that are material to investors.

We, on behalf of our subsidiaries, provide letters of credit, which include, but are not limited to, guarantees for debt service reserves, capital reserves, construction completion and performance. As at September 30, 2019, letters of credit issued by our subsidiaries amounted to \$42 million (December 31, 2018: \$47 million).

In the normal course of operations, we execute agreements that provide for indemnification and guarantees to third parties in transactions such as business dispositions and acquisitions, construction projects, capital projects, and sales and purchases of assets and services. We have also agreed to indemnify our directors and certain of our officers and employees. The nature of substantially all of the indemnification undertakings prevents us from making a reasonable estimate of the maximum potential amount that we could be required to pay third parties, as many of the agreements do not specify a maximum amount and the amounts are dependent upon the outcome of future contingent events, the nature and likelihood of which cannot be determined at this time. Historically, we have made no significant payments under such indemnification agreements.

RECONCILIATION OF NON-IFRS FINANCIAL MEASURES

We focus on FFO to measure operating performance, along with IFRS measures such as net income. In addition, we also assess AFFO, Adjusted EBITDA, Adjusted Earnings and Invested Capital.

Adjusted EBITDA, FFO, AFFO, Adjusted Earnings and Invested Capital are presented based on our proportionate share of results in operations accounted for using the consolidation and the equity method whereby we either control or exercise significant influence or joint control over the investment, respectively. Proportionate financial information is not, and is not intended to be, presented in accordance with IFRS. Under IFRS, we are not considered to control those entities that have not been consolidated and as such, have been presented as investments in associates or joint ventures in Note 10 of the partnership's financial statements. The presentation of the assets and liabilities and revenues and expenses do not represent our legal claim to such items, and the removal of financial statement amounts that are attributable to non-controlling interests does not extinguish the partnership's legal claims or exposures to such items.

As a result, segment revenues, costs attributable to revenues, general and administrative costs, interest expense, other income, depreciation and amortization, deferred income taxes, breakage and transaction costs, and non-cash valuation gains or losses are reconciling items that will differ from results presented in accordance with IFRS as these reconciling items include our proportionate share of earnings from investments in associates attributable to each of the above-noted items, and exclude the proportionate share of earnings (loss) of consolidated investments not held by the partnership apportioned to each of the above-noted items.

We provide proportionate financial results because we believe it assists investors and analysts in estimating our overall performance and understanding the partnership's share of results from its underlying investments which have varying economic ownership interests and financial statement presentations when determined in accordance with IFRS. We believe our proportionate financial information, when read in conjunction with the partnership's reported results under IFRS, provides the most meaningful assessment of how our operations are performing and capital is being managed. The presentation of proportionate results has limitations as an analytical tool, including the following:

- The amounts shown on the individual line items were derived by applying our overall economic ownership interest percentage determined when applying the equity method of accounting and do not necessarily represent our legal claim to the assets and liabilities, or the revenues and expenses;
- Other companies may calculate proportionate results differently than we do.

Because of these limitations, our proportionate financial information should not be considered in isolation or as a substitute for our financial statements as reported under IFRS.

The following tables present each segment's results in the format that management organizes its segments to make operating decisions and assess performance. These tables reconcile our proportionate results to our partnership's consolidated statements of operating results on a line by line basis by aggregating the components comprising the earnings from our investments in associates and reflecting the portion of each line item attributable to non-controlling interests.

See "Discussion of Segment Reconciling Items" beginning on page 77 for a reconciliation of segment results to our statement of operating results in accordance with IFRS along with a break-down of each of the reconciling items by type and by operating segment.

Net income is the most directly comparable IFRS measure to FFO, AFFO, Adjusted EBITDA and Adjusted Earnings. Partnership capital is the most directly comparable IFRS measure to Invested Capital. We urge you to review the IFRS financial measures within the MD&A and to not rely on any single financial measure to evaluate our partnership.

We define FFO as net income excluding the impact of depreciation and amortization, deferred income taxes, breakage and transaction costs, and non-cash valuation gains or losses.

FFO has limitations as an analytical tool:

- FFO does not include depreciation and amortization expense; because we own capital assets with finite lives, depreciation and amortization expense recognizes the fact that we must maintain or replace our asset base in order to preserve our revenue generating capability;
- FFO does not include deferred income taxes, which may become payable if we own our assets for a long period of time; and
- FFO does not include certain non-recurring charges such as breakage and transaction costs or non-cash valuation gains, losses and impairment charges.

FFO is a key measure that we use to evaluate the performance of our operations and forms the basis for our partnership's distribution policy.

We believe that FFO, when viewed in conjunction with our IFRS results, provides a more complete understanding of factors and trends affecting our underlying operations. FFO allows us to evaluate our businesses on the basis of cash return on invested capital by removing the effect of non-cash and other items.

We add back depreciation and amortization to remove the implication that our assets decline in value over time since we believe that the value of most of our assets will be sustained over time, provided we make all necessary maintenance expenditures. We add back deferred income taxes because we do not believe this item reflects the present value of the actual cash tax obligations we will be required to pay, particularly if our operations are held for a long period of time. We add back non-cash valuation gains or losses recorded in net income as they are non-cash and indicate a point-in-time approximation of value on items we consider long-term. We also add back breakage and transaction costs as they are capital in nature.

In addition, we focus on Adjusted Funds from Operations or AFFO, which is defined as FFO less capital expenditures required to maintain the current performance of our operations (maintenance capital expenditures). While FFO provides a basis for assessing current operating performance, it does not take into consideration the cost to sustain the operating performance of our partnership's asset base. In order to assess the long-term, sustainable operating performance of our businesses, we observe that in addition to FFO, investors use AFFO by taking into account the impact of maintenance capital expenditures.

We also focus on Adjusted EBITDA which we define as net income excluding the impact of depreciation and amortization, interest expense, current and deferred income taxes, breakage and transaction costs and non-cash valuation gains or losses. Adjusted EBITDA provides a supplemental understanding of the performance of our business and enhanced comparability across periods and relative to our peers. Adjusted EBITDA excludes the impact of interest expense and current income taxes to remove the effect of the current capital structure and tax profile in assessing the operating performance of our businesses.

Adjusted Earnings is a measure that can be used to evaluate the performance of our operations, defined as net income attributable to our partnership, excluding any incremental depreciation and amortization expense associated with the revaluation of our property, plant and equipment and the impact of purchase price accounting, mark-to-market on hedging items and disposition gains or losses. While we believe that maintenance capital expenditures are the best measure of the cost to preserve our revenue generating capability, we acknowledge that investors may view historical depreciation as a more relevant proxy. Adjusted Earnings also excludes mark-to-market on hedging items recorded in net income or disposition gains or losses as we believe these items are not reflective of the ongoing performance of our underlying operations.

When viewed with our IFRS results, we believe that Adjusted Earnings provides a supplemental understanding of the performance of our underlying operations and also gives users enhanced comparability of our ongoing performance relative to peers in certain jurisdictions and across periods.

Invested Capital, which tracks the amount of capital that has been contributed to our partnership, is a measure we utilize to assess returns on capital deployed, relative to targeted returns. Investment decisions are based on, amongst other measures and factors, targeted returns on Invested Capital of 12% to 15% annually over the long-term. We define Invested Capital as partnership capital removing the following items: non-controlling interest - in operating subsidiaries, retained earnings or deficit, accumulated other comprehensive income and ownership changes. We measure return on Invested Capital as AFFO, less estimated returns of capital on operations that are not perpetual in life, divided by the weighted average Invested Capital for the period.

FFO is a measure of operating performance that is not calculated in accordance with and does not have any standardized meaning prescribed by IFRS as issued by the IASB. FFO is therefore unlikely to be comparable to similar measures presented by other issuers. FFO has limitations as an analytical tool. Specifically, our definition of FFO may differ from the definition used by other organizations, as well as the definition of Funds from Operations used by the REALPAC and the NAREIT, in part because the NAREIT definition is based on U.S. GAAP, as opposed to IFRS. A reconciliation of the most closely-related IFRS measure, net income, to FFO and AFFO is as follows:

US\$ MILLIONS⁽¹⁾	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Net income	\$ 205	\$ 87	\$ 624	\$ 633
Add back or deduct the following:				
Depreciation and amortization	317	188	932	569
Share of (earnings) losses from investments in associates and joint ventures ⁽²⁾	(36)	32	(88)	36
FFO contribution from investments in associates and joint ventures ⁽²⁾	145	125	436	409
Income tax expense	58	65	194	322
Mark-to-market on hedging items and other	(34)	(5)	(90)	(25)
Gain on sale of associate	—	—	—	(338)
Other expense	(1)	(9)	(14)	(26)
Consolidated Funds from Operations	654	483	1,994	1,580
FFO attributable to non-controlling interests ⁽³⁾	(316)	(205)	(968)	(675)
FFO	338	278	1,026	905
Maintenance capital expenditures	(77)	(69)	(204)	(176)
AFFO	261	209	822	729
Return of capital	(28)	(21)	(81)	(68)
AFFO less return of capital	\$ 233	\$ 188	\$ 741	\$ 661

1. Please see "Reconciliation of Operating Segment Measures" for a detailed reconciliation of Brookfield Infrastructure's proportionate results to our partnership's Consolidated Statements of Operating Results.

2. These adjustments have the combined effect of excluding the impact of depreciation and amortization, deferred income taxes, breakage and transaction costs, and non-cash valuation gains or losses recorded within our investments in associates and joint ventures in accordance with our definition of FFO.

3. By adjusting FFO attributable to non-controlling interests, the partnership is able to remove the portion of FFO earned at non-wholly owned subsidiaries that is not attributable to the partnership. We believe our proportionate financial information, when read in conjunction with the partnership's reported results under IFRS, provides the most meaningful assessment of how our operations are performing. Please refer to the discussion of limitations of the proportional results as an analytical tool within the "Reconciliation of Non-IFRS Financial Measures" on page 68.

All reconciling amounts from net income to FFO presented above are taken directly from the partnership's consolidated financial statements, and in the case of "Contribution from investments in associates and joint ventures" and "Attributable to non-controlling interests", the partnership's proportionate share of FFO relating thereto are derived using the accounting policies consistent with those applied in the partnership's consolidated financial statements. FFO for these items is calculated on the same basis as consolidated entities, as disclosed above, and is calculated by applying the same ownership percentages used in calculating the partnership's share of equity accounted income and the corresponding elimination of non-controlling interests in accordance with IAS 28, *Investments in Associates and Joint Ventures* and IFRS 10, *Consolidated Financial Statements*, respectively.

For the three-month period ended September 30, 2019, the difference between net income and FFO is predominantly due to depreciation and amortization, FFO contribution from investments in associates and joint ventures, and FFO attributable to non-controlling interests. Depreciation and amortization increased from prior year due to incremental charges from recently completed acquisitions, higher asset values following our annual revaluation process, the adoption of IFRS 16, and capital expenditures made during the year. FFO contribution from investments in associates and joint ventures increased from prior year mainly due to organic growth and acquisitions. FFO attributable to non-controlling interests increased from the prior year predominantly due to acquisitions completed during the past 12 months and organic growth.

The difference between net income and AFFO is due to the aforementioned items, in addition to maintenance capital expenditures of \$77 million (2018: \$69 million).

For the nine-month period ended September 30, 2019, the difference between net income and FFO is predominantly due to depreciation and amortization, FFO contribution from investments in associates and joint ventures, income tax expense, gain on sale of associate and FFO attributable to non-controlling interests. Depreciation and amortization increased from prior year due to incremental charges from recently completed acquisitions, higher asset values following our annual revaluation process, the adoption of IFRS 16, and capital expenditures made during the year. FFO contribution from investments in associates and joint ventures and FFO attributable to non-controlling interests increased from prior year predominately due to organic growth and acquisitions. Income tax expense and gain on sale of associate decreased as prior year results included the impact from the sale of our Chilean electricity transmission operation.

The difference between net income and AFFO is due to the aforementioned items in addition to maintenance capital expenditures of \$204 million (2018: \$176 million).

The following table reconciles net income, the most directly comparable IFRS measure, to Adjusted EBITDA, a non-IFRS measure. Adjusted EBITDA is presented based on our proportionate share of results in operations accounted for using the consolidation and the equity methods.

US\$ MILLIONS ⁽¹⁾	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Net income	\$ 205	\$ 87	\$ 624	\$ 633
Add back or deduct the following:				
Depreciation and amortization	317	188	932	569
Interest expense	229	140	682	379
Share of (earnings) losses from investments in associates and joint ventures ⁽²⁾	(36)	32	(88)	36
Adjusted EBITDA contributions from investments in associates and joint ventures ⁽²⁾	190	159	570	519
Income tax expense	58	65	194	322
Mark-to-market on hedging items and other	(34)	(5)	(90)	(25)
Gain on sale of associates	—	—	—	(338)
Consolidated Adjusted EBITDA	929	666	2,824	2,095
Adjusted EBITDA attributable to non-controlling interests ⁽³⁾	(466)	(297)	(1,417)	(913)
Adjusted EBITDA	\$ 463	\$ 369	\$ 1,407	\$ 1,182

1. Please see "Reconciliation of Operating Segment Measures" for a detailed reconciliation of Brookfield Infrastructure's proportionate results to our partnership's Consolidated Statements of Operating Results.
2. These adjustments have the combined effect of excluding the impact of depreciation and amortization, interest expense, current and deferred income taxes, breakage and transaction costs, and non-cash valuation gains or losses recorded within our investments in associates and joint ventures in accordance with our definition of FFO.
3. By adjusting Adjusted EBITDA attributable to non-controlling interests, the partnership is able to remove the portion of Adjusted EBITDA earned at non-wholly owned subsidiaries that is not attributable to the partnership. We believe our proportionate financial information, when read in conjunction with the partnership's reported results under IFRS, provides the most meaningful assessment of how our operations are performing. Please refer to the discussion of limitations of the proportional results as an analytical tool within the "Reconciliation of Non-IFRS Financial Measures" on page 68.

All reconciling amounts presented above are taken directly from the partnership's consolidated financial statements, and in the case of "Contribution from investments in associates and joint ventures" and "Attributable to non-controlling interests", the partnership's proportionate share of Adjusted EBITDA relating thereto are derived using the accounting policies consistent with those applied in the partnership's consolidated financial statements. Adjusted EBITDA for these items is calculated on the same basis as consolidated entities, as disclosed above, and is calculated by applying the same ownership percentages used in calculating the partnership's share of equity accounted income and the corresponding elimination of non-controlling interests in accordance with IAS 28, *Investments in Associates and Joint Ventures* and IFRS 10, *Consolidated Financial Statements*, respectively.

For the three-month period ended September 30, 2019, the difference between net income and Adjusted EBITDA is predominantly due to depreciation and amortization, interest expense, Adjusted EBITDA from investments in associates and joint ventures, and Adjusted EBITDA attributable to non-controlling interests. Depreciation and amortization increased from prior year due to incremental charges from recently completed acquisitions, higher asset values following our annual revaluation process, the adoption of IFRS 16, and capital expenditures made during the year. Interest expense increased from the prior year due to additional borrowings associated with businesses acquired during the year. Adjusted EBITDA from investments in associates and joint ventures increased compared to the prior year mainly due to organic growth and acquisitions. Adjusted EBITDA attributable to non-controlling interests increased from the prior year predominantly due to acquisitions completed during the past 12 months and organic growth.

For the nine-month period ended September 30, 2019, the difference between net income and Adjusted EBITDA is primarily due to depreciation and amortization expense, interest expense, Adjusted EBITDA contributions from investments in associates and joint ventures, income tax expense, gain on sale of associate and Adjusted EBITDA attributable to non-controlling interests. Depreciation and amortization increased from prior year due to incremental charges from recently completed acquisitions, higher asset values following our annual revaluation process, the adoption of IFRS 16, and capital expenditures made during the year. Interest expense increased due to additional asset-level borrowings used to fund new investments and organic growth opportunities, the issuance of \$1.5 billion of five-year senior notes at our Brazilian regulated gas transmission business in May of 2018, the issuance of C\$500 million of corporate medium term notes in September 2018, and interest expense recognized on lease liabilities upon adoption of IFRS 16. Adjusted EBITDA contributions from investments in associates and joint ventures and Adjusted EBITDA attributable to non-controlling interests increased from the prior year predominantly due to acquisitions completed during the past 12 months and organic growth. Income tax expense and gain on sale of associate decreased as prior year results included the impact from the sale of our Chilean electricity transmission operation.

The following table reconciles net income attributable to our partnership, the most directly comparable IFRS measure, to Adjusted Earnings, a non-IFRS financial metric:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Net income attributable to partnership ⁽¹⁾	\$ 82	\$ 5	\$ 210	\$ 339
Add back or deduct the following:				
Depreciation and amortization expense due to application of revaluation model and acquisition accounting	102	85	308	256
Mark-to-market on hedging items and other	(58)	11	(62)	138
Gain on sale of subsidiaries or ownership changes	—	—	(21)	(338)
Adjusted earnings	\$ 126	\$ 101	\$ 435	\$ 395

1. Includes net income attributable to non-controlling interest—Redeemable Partnership Units held by Brookfield, non-controlling interests—Exchange LP Units, general partner and limited partners.

For the three-month period ended September 30, 2019, the difference between net income attributable to partnership and Adjusted Earnings is due to depreciation and amortization expense attributable to the application of the revaluation model and acquisition accounting of \$102 million (2018: \$85 million) and mark-to-market gains on hedging items and other of \$58 million (2018: losses of \$11 million). Adjusted earnings for the period benefited from organic growth across the majority of our operations and acquisitions completed in the past 12 months, partially offset by the impact of foreign exchange.

For the nine-month period ended September 30, 2019, the difference between net income attributable to partnership and Adjusted Earnings is due to depreciation and amortization expense attributable to the application of the revaluation model and acquisition accounting of \$308 million (2018: \$256 million), mark-to-market gains on hedging items and other of \$62 million (2018: losses of \$138 million), and gain on sale of subsidiaries or ownership changes of \$21 million (2018: \$338 million). Adjusted Earnings increased by \$40 million from the prior year due to organic growth across the majority of our operations and acquisitions completed in the past 12 months, partially offset by the impact of foreign exchange.

The following table reconciles net income per limited partnership unit, the most directly comparable IFRS measure, to FFO per unit, a non-IFRS financial metric:

US\$ MILLIONS, EXCEPT PER UNIT AMOUNTS ⁽¹⁾	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Net income (loss) per limited partnership unit ⁽²⁾	\$ 0.07	\$ (0.10)	\$ 0.14	\$ 0.53
Add back or deduct the following:				
Depreciation and amortization	0.53	0.46	1.67	1.45
Deferred income taxes	0.02	(0.04)	0.08	0.01
Mark-to-market on hedging items	(0.14)	(0.08)	(0.19)	(0.17)
Gain on sale of associate	—	—	—	(0.86)
Valuation losses and other	0.34	0.47	0.85	1.35
Per unit FFO ⁽³⁾	\$ 0.82	\$ 0.71	\$ 2.55	\$ 2.31

1. Please see "Reconciliation of Operating Segment Measures" for a detailed reconciliation of Brookfield Infrastructure's proportionate results to our partnership's Consolidated Statements of Operating Results.
2. During the three and nine-month periods ended September 30, 2019, on average there were 290.9 million and 282.9 million limited partnership units outstanding, respectively (2018: 276.8 million and 276.7 million).
3. During the three and nine-month periods ended September 30, 2019, on average there were 414.6 million and 404.0 million units outstanding, respectively (2018: 394.2 million and 394.1 million), being inclusive of our units, the Redeemable Partnership Units, the Exchange LP Units and the Special General Partner Units.

The following table reconciles net income per limited partnership unit, the most directly comparable IFRS measure, to Adjusted Earnings per unit, a non-IFRS financial metric:

US\$ MILLIONS, EXCEPT PER UNIT AMOUNTS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Net income (loss) per limited partnership unit ⁽¹⁾	\$ 0.07	\$ (0.10)	\$ 0.14	\$ 0.53
Add back or deduct the following:				
Depreciation and amortization expense due to application of revaluation model & acquisition accounting	0.25	0.22	0.77	0.66
Mark-to-market on hedging items and other	(0.02)	0.14	0.21	0.68
Gains on sale of subsidiaries or ownership changes	—	—	(0.05)	(0.86)
Adjusted earnings per unit ⁽²⁾	\$ 0.30	\$ 0.26	\$ 1.07	\$ 1.01

1. During the three and nine-month periods ended September 30, 2019, on average there were 290.9 million and 282.9 million limited partnership units outstanding, respectively (2018: 276.8 million and 276.7 million).
2. During the three and nine-month periods ended September 30, 2019, on average there were 414.6 million and 404.0 million units outstanding, respectively (2018: 394.2 million and 394.1 million), being inclusive of our units, the Redeemable Partnership Units, the Exchange LP Units and the Special General Partner Units.

The following reconciles partnership capital, the most directly comparable IFRS measure, to Invested Capital, a non-IFRS financial metric:

US\$ MILLIONS	As of	
	September 30, 2019	December 31, 2018
Partnership Capital	\$ 16,208	\$ 14,668
Remove impact of the following items since inception:		
Non-controlling interest - in operating subsidiaries	(8,583)	(7,303)
Deficit	1,820	1,228
Accumulated other comprehensive income	(40)	(328)
Ownership changes and other	(398)	(109)
Invested Capital	\$ 9,007	\$ 8,156

Invested capital increased as a result of the net issuance of \$72 million preferred units and preferred shares during the nine-months ended September 30, 2019, partially offset by the issuance of units, net of repurchases of units of \$779 million.

The following table presents the change in Invested Capital during the three and nine-month periods ended September 30, 2019:

US\$ MILLIONS	For the three-month period ended September 30		For the nine-month period ended September 30	
	2019	2018	2019	2018
Opening balance	\$ 8,204	\$ 7,764	\$ 8,156	\$ 7,599
Issuance of preferred units and preferred shares, net of repurchases	—	185	72	342
Repurchases of limited partnership units and redeemable partnership units, net of issuances	803	4	779	12
Ending balance	\$ 9,007	\$ 7,953	\$ 9,007	\$ 7,953
Weighted Average Invested Capital	\$ 8,855	\$ 7,801	\$ 8,414	\$ 7,760

AFFO is defined as FFO (defined in Note 3, Segment Information) less maintenance capital expenditures. AFFO for the three and nine-month periods ended September 30, 2019 was \$261 million and \$822 million, respectively (2018: \$209 million and \$729 million). Estimated returns of capital for the three and nine-month periods ended September 30, 2019 were \$28 million and \$81 million, respectively (2018: \$21 million and \$68 million).

Our partnership has met its investment return objectives for the three and nine-month periods ended September 30, 2019 with returns on Invested Capital of 11% and 12%, respectively (2018: 10% and 11%).

Reconciliation of Operating Segment Measures

Adjusted EBITDA, FFO and AFFO are presented based on our proportionate share of results in operations accounted for using consolidation and the equity method whereby we either control or exercise significant influence over the investment respectively, in order to demonstrate the impact of key value drivers of each of these operating segments on our overall performance. As a result, segment depreciation and amortization, deferred income taxes, breakage and transaction costs, and non-cash valuation gains or losses are reconciling items that will differ from results presented in accordance with IFRS as these reconciling items (1) include our proportionate share of earnings from investments in associates attributable to each of the above-noted items, and (2) exclude the proportionate share of earnings (loss) of consolidated investments not held by us apportioned to each of the above-noted items.

The following tables present each segment's results in the format that management organizes its segments to make operating decisions and assess performance. Each segment is presented on a proportionate basis, taking into account our ownership in operations accounted for using the consolidation and equity method whereby we either control or exercise significant influence over the investment, respectively. These tables reconcile our proportionate results to our partnership's consolidated statements of operating results on a line by line basis by aggregating the components comprising the earnings from our investments in associates and reflecting the portion of each line item attributable to non-controlling interests. See "Discussion of Segment Reconciling Items" on page 77 for a reconciliation of segment results to our statement of operating results in accordance with IFRS.

Total attributable to Brookfield Infrastructure									
FOR THE THREE-MONTH PERIOD ENDED SEPTEMBER 30, 2019 US\$ MILLIONS	Utilities	Transport	Energy	Data Infrastructure	Corporate	Total	Contribution from investments in associates	Attributable to non- controlling interest	As per IFRS ⁽¹⁾
Revenues	\$ 285	\$ 312	\$ 260	\$ 91	\$ —	\$ 948	\$ (329)	\$ 1,045	\$ 1,664
Costs attributed to revenues	(95)	(138)	(132)	(45)	—	(410)	139	(579)	(850)
General and administrative costs	—	—	—	—	(75)	(75)	—	—	(75)
Adjusted EBITDA	190	174	128	46	(75)	463	(190)	466	
Other (expense) income	(12)	1	5	2	24	20	4	(25)	(1)
Interest expense	(33)	(47)	(33)	(12)	(20)	(145)	41	(125)	(229)
FFO	145	128	100	36	(71)	338	(145)	316	
Depreciation and amortization	(43)	(79)	(62)	(35)	—	(219)	92	(190)	(317)
Deferred taxes	(12)	3	(3)	2	—	(10)	6	1	(3)
Mark-to-market on hedging items and other	(5)	(36)	(17)	(3)	34	(27)	11	(4)	(20)
Share of earnings from associates	—	—	—	—	—	—	36	—	36
Net income attributable to non-controlling interest and preferred unitholders	—	—	—	—	—	—	—	(123)	(123)
Net income (loss) attributable to partnership ⁽²⁾	\$ 85	\$ 16	\$ 18	\$ —	\$ (37)	\$ 82	\$ —	\$ —	\$ 82

Total attributable to Brookfield Infrastructure									
FOR THE THREE-MONTH PERIOD ENDED SEPTEMBER 30, 2018 US\$ MILLIONS	Utilities	Transport	Energy	Data Infrastructure	Corporate	Total	Contribution from investments in associates	Attributable to non- controlling interest	As per IFRS ⁽¹⁾
Revenues	\$ 270	\$ 385	\$ 144	\$ 40	\$ —	\$ 839	\$ (359)	\$ 687	\$ 1,167
Costs attributed to revenues	(98)	(227)	(71)	(17)	—	(413)	200	(390)	(603)
General and administrative costs	—	—	—	—	(57)	(57)	—	—	(57)
Adjusted EBITDA	172	158	73	23	(57)	369	(159)	297	
Other (expense) income	(9)	1	5	(1)	20	16	5	(30)	(9)
Interest expense	(33)	(40)	(19)	(3)	(12)	(107)	29	(62)	(140)
FFO	130	119	59	19	(49)	278	(125)	205	
Depreciation and amortization	(42)	(81)	(39)	(18)	—	(180)	87	(95)	(188)
Deferred taxes	(11)	28	(2)	1	1	17	(23)	(6)	(12)
Mark-to-market on hedging items and other	(10)	(112)	(13)	1	24	(110)	93	(22)	(39)
Share of losses from associates	—	—	—	—	—	—	(32)	—	(32)
Net income attributable to non-controlling interest and preferred unitholders	—	—	—	—	—	—	—	(82)	(82)
Net income (loss) attributable to partnership ⁽²⁾	\$ 67	\$ (46)	\$ 5	\$ 3	\$ (24)	\$ 5	\$ —	\$ —	\$ 5

Total attributable to Brookfield Infrastructure									
FOR THE NINE-MONTH PERIOD ENDED SEPTEMBER 30, 2019 US\$ MILLIONS	Utilities	Transport	Energy	Data Infrastructure	Corporate	Total	Contribution from investments in associates	Attributable to non- controlling interest	As per IFRS ⁽¹⁾ financials
Revenues	\$ 832	\$ 1,087	\$ 761	\$ 220	\$ —	\$ 2,900	\$ (1,066)	\$ 3,108	\$ 4,942
Costs attributed to revenues	(271)	(540)	(383)	(99)	—	(1,293)	496	(1,691)	(2,488)
General and administrative costs	—	—	—	—	(200)	(200)	—	—	(200)
Adjusted EBITDA	561	547	378	121	(200)	1,407	(570)	1,417	
Other (expense) income	(31)	2	19	4	64	58	6	(78)	(14)
Interest expense	(105)	(147)	(94)	(31)	(62)	(439)	128	(371)	(682)
FFO	425	402	303	94	(198)	1,026	(436)	968	
Depreciation and amortization	(132)	(264)	(186)	(90)	(1)	(673)	295	(554)	(932)
Deferred taxes	(52)	14	(2)	5	4	(31)	16	1	(14)
Mark-to-market on hedging items and other	28	(113)	(56)	(18)	47	(112)	37	(1)	(76)
Share of earnings from associates	—	—	—	—	—	—	88	—	88
Net income attributable to non-controlling interest and preferred unitholders	—	—	—	—	—	—	—	(414)	(414)
Net income (loss) attributable to partnership ⁽²⁾	\$ 269	\$ 39	\$ 59	\$ (9)	\$ (148)	\$ 210	\$ —	\$ —	\$ 210

Total attributable to Brookfield Infrastructure									
FOR THE NINE-MONTH PERIOD ENDED SEPTEMBER 30, 2018 US\$ MILLIONS	Utilities	Transport	Energy	Data Infrastructure	Corporate	Total	Contribution from investments in associates	Attributable to non- controlling interest	As per IFRS ⁽¹⁾ financials
Revenues	\$ 787	\$ 1,219	\$ 434	\$ 128	\$ —	\$ 2,568	\$ (1,150)	\$ 1,806	\$ 3,224
Costs attributed to revenues	(235)	(710)	(213)	(59)	—	(1,217)	631	(893)	(1,479)
General and administrative costs	—	—	—	—	(169)	(169)	—	—	(169)
Adjusted EBITDA	552	509	221	69	(169)	1,182	(519)	913	
Other (expense) income	(20)	3	13	(3)	53	46	9	(81)	(26)
Interest expense	(94)	(123)	(55)	(9)	(42)	(323)	101	(157)	(379)
FFO	438	389	179	57	(158)	905	(409)	675	
Depreciation and amortization	(143)	(265)	(110)	(55)	—	(573)	289	(285)	(569)
Deferred taxes	(38)	40	(5)	3	2	2	(35)	(20)	(53)
Mark-to-market on hedging items and other	(67)	(174)	(51)	2	(43)	(333)	191	(76)	(218)
Gain on sale of associate	—	—	—	—	338	338	—	—	338
Share of losses from associates	—	—	—	—	—	—	(36)	—	(36)
Net income attributable to non-controlling interest and preferred unitholders	—	—	—	—	—	—	—	(294)	(294)
Net income (loss) attributable to partnership ⁽²⁾	\$ 190	\$ (10)	\$ 13	\$ 7	\$ 139	\$ 339	\$ —	\$ —	\$ 339

1. The above table provides each segment's results in the format that management organizes its segments to make operating decisions and assess performance. Each segment is presented on a proportionate basis, taking into account Brookfield Infrastructure's ownership in operations accounted for using the consolidation and equity methods under IFRS. The above table reconciles Brookfield Infrastructure's proportionate results to our partnership's Consolidated Statements of Operating Results on a line by line basis by aggregating the components comprising the earnings from our partnership's investments in associates and reflecting the portion of each line item attributable to non-controlling interests.
2. Includes net income (loss) attributable to non-controlling interests - Redeemable Partnership Units held by Brookfield, non-controlling interests—Exchange LP Units, general partners and limited partners.

The following tables provide each segment's assets in the format that management organizes its segments to make operating decisions and assess performance. Each segment is presented on a proportionate basis, taking into account our ownership in operations using consolidation and the equity method whereby we either control or exercise significant influence over the investment respectively. These tables reconcile our proportionate assets to total assets presented on our Consolidated Statements of Financial Position by removing net liabilities contained within investments in associates, reflecting the assets attributable to non-controlling interests, and adjusting for working capital assets which are netted against working capital liabilities.

AS OF SEPTEMBER 30, 2019 US\$ MILLIONS	Total Attributable to Brookfield Infrastructure						Contribution from investments in associates	Attributable to non-controlling interest	Working capital adjustment and other	As per IFRS financials
	Utilities	Transport	Energy	Data Infrastructure	Corporate	Total				
Total assets	\$ 4,797	\$ 5,872	\$ 5,223	\$ 2,012	\$ (811)	\$ 17,093	\$ (2,191)	\$ 20,682	\$ 5,108	\$ 40,692

AS OF DECEMBER 31, 2018 US\$ MILLIONS	Total Attributable to Brookfield Infrastructure						Contribution from investments in associates	Attributable to non-controlling interest	Working capital adjustment and other	As per IFRS financials
	Utilities	Transport	Energy	Data Infrastructure	Corporate	Total				
Total assets	\$ 4,864	\$ 6,424	\$ 4,722	\$ 1,446	\$ (929)	\$ 16,527	\$ (2,350)	\$ 17,545	\$ 4,858	\$ 36,580

Discussion of Segment Reconciling Items

The following tables detail and provide discussion, where applicable, of material changes between reporting periods for each operating segment, the reconciliation of contributions from investments in associates and attribution of non-controlling interest in the determination of Adjusted EBITDA, FFO and net income attributable to our partnership in order to facilitate the understanding of the nature of and changes to reconciling items.

FOR THE THREE-MONTH PERIOD ENDED SEPTEMBER 30, 2019 US\$ MILLIONS						
	Utilities	Transport	Energy	Data Infrastructure	Corporate	Total
Adjustments to items comprising Adjusted EBITDA ⁽¹⁾						
Contributions from investments in associates	\$ (6)	\$ (91)	\$ (57)	\$ (36)	\$ —	\$ (190)
Attribution to non-controlling interest	254	48	139	25	—	466
Adjusted EBITDA	248	(43)	82	(11)	—	276
Adjustments to items comprising FFO ⁽²⁾						
Contributions from investments in associates	2	23	13	7	—	45
Attribution to non-controlling interest	(70)	(29)	(41)	(10)	—	(150)
FFO	180	(49)	54	(14)	—	171
Adjustments to items comprising net income attributable to partnership ⁽³⁾						
Contributions from investment in associates	4	68	44	29	—	145
Attribution to non-controlling interest	(184)	(19)	(98)	(15)	—	(316)
Net income attributable to partnership	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

**FOR THE THREE-MONTH PERIOD ENDED
SEPTEMBER 30, 2018
US\$ MILLIONS**

	Utilities	Transport	Energy	Data Infrastructure	Corporate	Total
Adjustments to items comprising Adjusted EBITDA⁽¹⁾						
Contributions from investment in associates	\$ (5)	\$ (82)	\$ (52)	\$ (20)	\$ —	\$ (159)
Attribution to non-controlling interest	245	28	24	—	—	297
Adjusted EBITDA	240	(54)	(28)	(20)	—	138
Adjustments to items comprising FFO⁽²⁾						
Contributions from investments in associates	2	19	12	1	—	34
Attribution to non-controlling interest	(69)	(17)	(6)	—	—	(92)
FFO	173	(52)	(22)	(19)	—	80
Adjustments to items comprising net income attributable to partnership⁽³⁾						
Contributions from investment in associates	3	63	40	19	—	125
Attribution to non-controlling interest	(176)	(11)	(18)	—	—	(205)
Net income attributable to partnership	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

**FOR THE NINE-MONTH PERIOD ENDED
SEPTEMBER 30, 2019
US\$ MILLIONS**

	Utilities	Transport	Energy	Data Infrastructure	Corporate	Total
Adjustments to items comprising Adjusted EBITDA⁽¹⁾						
Contributions from investment in associates	\$ (24)	\$ (283)	\$ (176)	\$ (87)	\$ —	\$ (570)
Attribution to non-controlling interest	764	169	417	67	—	1,417
Adjusted EBITDA	740	(114)	241	(20)	—	847
Adjustments to items comprising FFO⁽²⁾						
Contributions from investments in associates	9	69	40	16	—	134
Attribution to non-controlling interest	(201)	(88)	(113)	(47)	—	(449)
FFO	548	(133)	168	(51)	—	532
Adjustments to items comprising net income attributable to partnership⁽³⁾						
Contributions from investment in associates	15	214	136	71	—	436
Attribution to non-controlling interest	(563)	(81)	(304)	(20)	—	(968)
Net income attributable to partnership	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

**FOR THE NINE-MONTH PERIOD ENDED
SEPTEMBER 30, 2018
US\$ MILLIONS**

	Utilities	Transport	Energy	Data Infrastructure	Corporate	Total
Adjustments to items comprising Adjusted EBITDA⁽¹⁾						
Contributions from investment in associates	\$ (43)	\$ (255)	\$ (156)	\$ (65)	\$ —	\$ (519)
Attribution to non-controlling interest	721	108	84	—	—	913
Adjusted EBITDA	678	(147)	(72)	(65)	—	394
Adjustments to items comprising FFO⁽²⁾						
Contributions from investments in associates	10	58	35	7	—	110
Attribution to non-controlling interest	(157)	(54)	(28)	1	—	(238)
FFO	531	(143)	(65)	(57)	—	266
Adjustments to items comprising net income attributable to partnership⁽³⁾						
Contributions from investment in associates	33	197	121	58	—	409
Attribution to non-controlling interest	(564)	(54)	(56)	(1)	—	(675)
Net income attributable to partnership	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

1. Revenues, costs attributed to revenues, general and administrative costs.

2. Other income, interest expense and cash taxes.

3. Depreciation and amortization, deferred taxes, fair value adjustments, other expenses, share of earnings from associates, net income attributable to non-controlling interest.

Contributions from investments in associates and joint ventures increased compared to prior year predominantly due to organic growth. Attribution to non-controlling interest increased compared to the prior year primarily due to acquisitions completed over the past 12 months.

Critical Accounting Policies and Estimates

The preparation of financial statements requires management to make critical judgments, 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 that are not readily apparent from other sources, during the reporting period. These estimates and associated assumptions are based on historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimate is revised if the revision affects only that period or in the period of the revision and future periods if the revision affects both current and future periods.

Critical judgments made by management and utilized in the normal course of preparing Brookfield Infrastructure's consolidated financial statements are outlined below.

Revaluation of property, plant and equipment

Property, plant and equipment is revalued on a regular basis. The critical estimates and assumptions underlying the valuation of property, plant and equipment are set out in Note 13, Property, Plant and Equipment in our December 31, 2018 audited consolidated financial statements. Our partnership's property, plant, and equipment are measured at fair value on a recurring basis with an effective date of revaluation for all asset classes as of December 31, 2018. Brookfield Infrastructure determined fair value under the income method with due consideration to significant inputs such as the discount rate, terminal value multiple and overall investment horizon.

Impairment of goodwill, intangibles with indefinite lives and investment in associates and joint ventures

Our partnership assesses the impairment of goodwill and intangible assets with indefinite lives by reviewing the value-in-use or fair value less costs of disposal of the cash-generating units to which goodwill or the intangible asset has been allocated. Brookfield Infrastructure uses the following critical assumptions and estimates: the circumstances that gave rise to the goodwill, timing and amount of future cash flows expected from the cash-generating unit; discount rates; terminal capitalization rates; terminal valuation dates; useful lives and residual values.

The impairment assessment of investments in associates and joint ventures requires estimation of the recoverable amount of the asset.

Other estimates utilized in the preparation of our partnership's financial statements are: depreciation and amortization rates and useful lives; recoverable amount of goodwill and intangible assets; ability to utilize tax losses and other tax measurements.

Recently adopted accounting standards

Brookfield Infrastructure applied, for the first time, certain new standards applicable to our partnership that became effective January 1, 2019. The impact of adopting these new standards on our partnership's accounting policies are as follows:

IFRS 16 Leases ("IFRS 16")

In January 2016, the IASB published a new standard, IFRS 16. The new standard brings most leases on balance sheet, eliminating the distinction between operating and finance leases. Lessor accounting, however, remains largely unchanged and the distinction between operating and finance leases is retained. IFRS 16 supersedes IAS 17, *Leases ("IAS 17")* and related interpretations and is effective for periods beginning on or after January 1, 2019.

The partnership adopted the standard using a modified retrospective approach, whereby any transitional impact is recorded in equity as at January 1, 2019, and comparative periods are not restated. In applying IFRS 16 for the first time, the partnership has applied the following practical expedients permitted by the standard on a lease-by-lease basis. These practical expedients are only available upon adoption and cannot be applied for any new lease executed after adoption:

- The accounting for operating leases with a remaining lease term of less than 12 months as of January 1, 2019 as short-term leases; and

- The application of a single discount rate to a portfolio of leases with reasonably similar characteristics. Furthermore, the partnership has applied the policy choice options on adoption to measure right-of-use assets at an amount equal to the lease liability.

The partnership has elected to apply the following practical expedients in its application of the standard:

- To not allocate contract consideration between lease and non-lease components, but rather account for each lease and non-lease component as a single lease component;
- To recognize the payments associated with short-term and low-value leases on a straight-line basis as an expense over the lease term.

The adoption of IFRS 16 resulted in the recognition of lease liabilities that are recorded in accounts payable and other, other liabilities, and right-of-use assets (“ROU”) that are classified as property, plant, and equipment of \$1.2 billion. The adoption of IFRS 16 did not have an impact on partnership capital. The weighted average incremental borrowing rate used in determining the lease liabilities is approximately 5%. The difference between the present value of operating lease commitments disclosed applying IAS 17 as at December 31, 2018 and the lease liabilities recognized as at January 1, 2019 is due to finance lease liabilities recognized as at December 31, 2018, short-term and low-value leases recognized as expense, and adjustments as a result of different treatment for extension and termination options and variable lease payments relating to changes in indices or rates. When comparing results to prior year, for the three-months ended September 30, 2019, the new standard resulted in a reduction of our direct operating costs by \$14 million (\$3 million attributable to the partnership) and an increase to our interest and depreciation expense of \$9 million and \$13 million, respectively (\$2 million and \$4 million attributable to the partnership, respectively), thereby reducing net income by \$8 million. Additionally, the new standard had no impact on our partnership’s share of earnings from equity accounted investments, but did increase proportionate EBITDA and FFO by \$10 million, and \$4 million, respectively.

Our partnership assesses whether a contract is or contains a lease, at inception of a contract and recognizes an ROU asset and a corresponding lease liability with respect to all lease agreements in which it is the lessee, except for short-term leases and leases of low value. The lease liability is initially measured at the present value of future lease payments, discounted using the interest rate implicit in the lease, if that rate can be determined, or otherwise the incremental borrowing rate. Lease payments included in the measurement of the lease liability comprise of i) fixed lease payments, including in-substance fixed payments, less any lease incentives; ii) variable lease payments that depend on an index or rate, initially measured using the index or rate at the commencement date; iii) the amount expected to be payable by the lessee under residual value guarantees; iv) the exercise price of purchase options, if it is reasonably certain that the option will be exercised; and v) payments of penalties for terminating the lease, if the lease term reflects the exercise of an option to terminate the lease. ROU assets comprise the initial measurement of the corresponding lease liability, lease payments made at or before the commencement day and any initial direct costs. ROU assets are subsequently measured at cost less accumulated depreciation and impairment losses.

The partnership remeasures lease liabilities and makes a corresponding adjustment to the related ROU assets when i) the lease term has changed or there is a change in the assessment of exercise of a purchase option, in which case the lease liability is remeasured by discounting the revised lease payments using a revised discount rate; ii) the lease payments have changed due to changes in an index or rate or a change in expected payment under a guaranteed residual value, in which cases the lease liability is remeasured by discounting the revised lease payments using the initial discount rate (unless the lease payments change is due to a change in a floating interest rate, in which case a revised discount rate is used); or iii) a lease contract is modified and the lease modification is not accounted for as a separate lease, in which case the lease liability is remeasured by discounting the revised lease payments using a revised discount rate.

The partnership has applied critical judgments in the application of IFRS 16, including: i) identifying whether a contract (or part of a contract) includes a lease; ii) determining whether it is reasonably certain that lease extension or termination option will be exercised in determining lease term; and iii) determining whether variable payments are in-substance fixed. The partnership also uses critical estimates in the application of IFRS 16, including the estimation of lease term and determination of the appropriate rate to discount the lease payments.

IFRIC 23 Uncertainty over Income Tax Treatments (“IFRIC 23”)

In June 2017, the IASB published IFRIC 23, effective for annual periods beginning on or after January 1, 2019. The interpretation requires an entity to assess whether it is probable that a tax authority will accept an uncertain tax treatment used, or proposed to be used, by an entity in its income tax filings and to exercise judgment in determining whether each tax treatment should be considered independently or whether some tax treatments should be considered together. The decision should be based on which approach provides better predictions of the resolution of the uncertainty. An entity also has to consider whether it is probable that the relevant authority will accept each tax treatment, or group of tax treatments, assuming that the taxation authority with the right to examine any amounts reported to it will examine those amounts and will have full knowledge of all relevant information when doing so. The interpretation may be applied on either a fully retrospective basis or a modified retrospective basis without restatement of comparative information. Our partnership has adopted the standard as of January 1, 2019 on a modified retrospective basis. The adoption did not have a significant impact on our partnership’s unaudited interim condensed and consolidated financial statements.

IFRS 3 Business Combinations (“IFRS 3”)

In October 2018, the IASB issued an amendment to IFRS 3, effective for annual periods beginning on or after January 1, 2020. The amendment clarifies the definition of a business and assists companies in determining whether an acquisition is a business combination or an acquisition of a group of assets. The amendment emphasizes that to be considered a business, an acquired set of activities and assets must include an input and a substantive process that together significantly contribute to the ability to create outputs. Effective January 1, 2019, our partnership has early adopted the standard prospectively. The adoption did not have a significant impact on our partnership’s unaudited interim condensed and consolidated financial statements.

After the adoption of IFRS 3 amendments, the partnership continues to account for business combinations in which control is acquired under the acquisition method. When an acquisition is made, the partnership considers the inputs, processes and outputs of the acquiree in assessing whether it meets the definition of a business. When the acquired set of activities and assets lack a substantive process in place but will be integrated into the partnership’s existing operations, the acquisition ceases to meet the definition of a business and is accounted for as an asset acquisition. Assets acquired through asset acquisitions are initially measured at cost, which includes the transaction costs incurred for the acquisitions. Acquisitions that continue to meet the definition of a business combination are accounted for under the same acquisition method.

CONTROLS AND PROCEDURES

No changes were made in our internal control over financial reporting during the three-month period ended September 30, 2019, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Excluded from our evaluation were internal controls over financial reporting at DCI and EWPL for which control was acquired on January 4, 2019 and March 22, 2019, respectively, and other individually insignificant businesses acquired since January 1, 2019. The financial statements of these entities constitute 8% of total assets, 11% of partnership capital, 4% of revenue and 6% of net income of the consolidated financial statements of our partnership as of and for the nine-month period ended September 30, 2019.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This Management's Discussion and Analysis contains forward-looking information and forward-looking statements within the meaning of applicable securities laws. We may make such statements in this report, in other filings with Canadian regulators or the SEC and in other public communications. The words "tend", "seek", "target", "foresee", "believe," "expect," "could", "aim to," "intend," "objective", "outlook", "endeavour", "estimate", "likely", "continue", "plan", derivatives thereof and other expressions of similar import, or the negative variations thereof, and similar expressions of future or conditional verbs such as "will", "may", "should," which are predictions of or indicate future events, trends or prospects and which do not relate to historical matters, identify forward-looking statements. Forward-looking statements in this Management's Discussion and Analysis include among others, statements with respect to our assets tending to appreciate in value over time, growth in our assets and operations, increases in FFO per unit and resulting capital appreciation, returns on capital and on equity, increasing demand for commodities and global movement of goods, expected capital expenditures, the impact of planned capital projects by customers of our businesses as on the performance and growth of those businesses, the extent of our corporate, general and administrative expenses, our ability to close acquisitions (including acquisitions referred to in this Management's Discussion and Analysis and other planned transactions), our capacity to take advantage of opportunities in the marketplace, the future prospects of the assets that we operate or will operate, partnering with institutional investors, ability to identify, acquire and integrate new acquisition opportunities, long-term target return on our assets, sustainability of distribution levels, distribution growth and payout ratios, operating results and margins for our business and each operation, future prospects for the markets for our products, our plans for growth through internal growth and capital investments, ability to achieve stated objectives, ability to drive operating efficiencies, return on capital expectations for the business, contract prices and regulated rates for our operations, our expected future maintenance and capital expenditures, ability to deploy capital in accretive investments, impact on the business resulting from our view of future economic conditions, our ability to maintain sufficient financial liquidity, our ability to draw down funds under our bank credit facilities, our ability to secure financing through the issuance of equity or debt, expansions of existing operations, likely sources of future opportunities in the markets in which we operate, financing plans for our operating companies, foreign currency management activities and other statements with respect to our beliefs, outlooks, plans, expectations and intentions. Although we believe that the partnership's anticipated future results, performance or achievements expressed or implied by the forward-looking statements and information are based upon reasonable assumptions and expectations, the reader should not place undue reliance on forward-looking statements and information because they involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the partnership to differ materially from anticipated future results, performance or achievements expressed or implied by such forward-looking statements and information.

Factors that could cause actual results to differ materially from those contemplated or implied by the forward-looking statements contained herein include general economic conditions in the jurisdictions in which we operate and elsewhere which may impact the markets for our products or services, the ability to achieve growth within Brookfield Infrastructure's businesses, our ability to achieve the milestones necessary to deliver the targeted returns to our unitholders, which is uncertain, some of which depends on access to capital and continuing favourable commodity prices, the impact of market conditions on our businesses, the fact that success of Brookfield Infrastructure is dependent on market demand for an infrastructure company, which is unknown, the availability of equity and debt financing for Brookfield Infrastructure, the ability to effectively complete new acquisitions in the competitive infrastructure space (including the potential acquisitions referred to in this letter to unitholders, some of which remain subject to the satisfaction of conditions precedent, and the inability to reach final agreement with counterparties to transactions referred to herein as being currently pursued, given that there can be no assurance that any such transaction will be agreed to or completed) and to integrate acquisitions into existing operations, changes in technology which have the potential to disrupt the businesses and industries in which we invest, the market conditions of key commodities, the price, supply or demand for which can have a significant impact upon the financial and operating performance of our business, regulatory decisions affecting our regulated businesses, our ability to secure favourable contracts, weather events affecting our business, traffic volumes on our toll road businesses and other risks and factors described in the documents filed by us with the securities regulators in Canada and the United States, including under "Risk Factors" in our most recent Annual Report on Form 20-F and other risks and factors that are described therein.

We caution that the foregoing list of important factors that may affect future results is not exhaustive. When relying on our forward-looking statements to make decisions with respect to Brookfield Infrastructure, investors and others should carefully consider the foregoing factors and other uncertainties and potential events. Except as required by law, the partnership undertakes no obligation to publicly update or revise any forward-looking statements or information, whether written or oral, that may be as a result of new information, future events or otherwise.