UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number **811-21462**

Tortoise Energy Infrastructure Corporation
(Exact name of registrant as specified in charter)

11550 Ash Street, Suite 300, Leawood, KS 66211
(Address of principal executive offices) (Zip code)

Terry Matlack
Diane Bono
11550 Ash Street, Suite 300, Leawood, KS 66211
(Name and address of agent for service)

913-981-1020
Registrant's telephone number, including area code

Date of fiscal year end: **November 30**

Date of reporting period: **November 30, 2017**

Item 1. Report to Stockholders.

Annual Report | November 30, 2017

2017 Annual Report

Closed-End Funds

Tortoise Capital Advisors
2017 Annual Report to Stockholders

This combined report provides you with a comprehensive review of our funds that span the entire energy value chain.

Tortoise Capital Advisors specializes in energy investing, including closed-end funds, open end funds, private funds and separate accounts.

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TTP and TPZ distribution policies

Tortoise Pipeline & Energy Fund, Inc. (“TTP”) and Tortoise Power and Energy Infrastructure Fund, Inc. (“TPZ”) are relying on exemptive relief permitting them to make long-term capital gain distributions throughout the year. Each of TTP and TPZ, with approval of its Board of Directors (the “Board”), has adopted a distribution policy (the “Policy”) with the purpose of distributing over the course of each year, through periodic distributions as nearly equal as practicable and any required special distributions, an amount closely approximating the total taxable income of TTP and TPZ during such year and, if so determined by the Board, all or a portion of the return of capital paid by portfolio companies to TTP and TPZ during such year. In accordance with its Policy, TTP distributes a fixed amount per common share, currently $0.4075, each quarter to its common shareholders and TPZ distributes a fixed amount per common share, currently $0.125, each month to its common shareholders. These amounts are subject to change from time to time at the discretion of the Board. Although the level of distributions is independent of TTP’s and TPZ’s performance, TTP and TPZ expect such distributions to correlate with its performance over time. Each quarterly and monthly distribution to shareholders is expected to be at the fixed amount established by the Board, except for extraordinary distributions in light of TTP’s and TPZ’s performance for the entire calendar year and to enable TTP and TPZ to comply with the distribution requirements imposed by the Internal Revenue Code. The Board may amend, suspend or terminate the Policy without prior notice to shareholders if it deems such action to be in the best interests of TTP, TPZ and their respective shareholders. For example, the Board might take such action if the Policy had the effect of shrinking TTP’s or TPZ’s assets to a level that was determined to be detrimental to TTP or TPZ shareholders. The suspension or termination of the Policy could have the effect of creating a trading discount (if TTP’s or TPZ’s stock is trading at or above net asset value), widening an existing trading discount, or decreasing an existing premium. You should not draw any conclusions about TTP’s or TPZ’s investment performance from the amount of the distribution or from the terms of TTP’s or TPZ’s distribution policy. Each of TTP and TPZ estimates that it has distributed more than its income and net realized capital gains; therefore, a portion of your distribution may be a return of capital. A return of capital may occur, for example, when some or all of the money that you invested in TTP or TPZ is paid back to you. A return of capital distribution does not necessarily reflect TTP’s or TPZ’s investment performance and should not be confused with “yield” or “income.” The amounts and sources of distributions reported are only estimates and are not being provided for tax reporting purposes. The actual amounts and sources of the amounts for tax reporting purposes will depend upon TTP’s and TPZ’s investment experience during the remainder of their fiscal year and may be subject to changes based on tax regulations. TTP and TPZ will send you a Form 1099-DIV for the calendar year that will tell you how to report these distributions for federal income tax purposes.

2017 Annual Report | November 30, 2017

Closed-end fund comparison

Name/Ticker	Primary focus	Structure	Total assets ($ millions)[1]	Portfolio mix by asset type[2]	Portfolio mix by structure[2]
Tortoise Energy Infrastructure Corp. NYSE: TYG Inception: 2/2004	Midstream MLPs	C-corp	$2,324.2		
Tortoise MLP Fund, Inc. NYSE: NTG Inception: 7/2010	Natural gas infrastructure MLPs	C-corp	$1,380.8		
Tortoise Pipeline & Energy Fund, Inc. NYSE: TTP Inception: 10/2011	North American pipeline companies	Regulated investment company	$273.0		
Tortoise Energy Independence Fund, Inc. NYSE: NDP Inception: 7/2012	North American oil & gas producers	Regulated investment company	$269.6		
Tortoise Power and Energy Infrastructure Fund, Inc. NYSE: TPZ Inception: 7/2009	Power & energy infrastructure companies (Fixed income & equity)	Regulated investment company	$202.8		

[1] As of 12/31/2017
[2] As of 11/30/2017

(unaudited)

Tortoise Capital Advisors

2017 Annual Report to closed-end fund stockholders

Dear fellow stockholders,
After three consecutive negative fiscal quarters, the broad energy sector ended on a high note for the fiscal year ending November 30, 2017. The S&P Energy Select Sector® Index, returned 11.3% for the fourth fiscal quarter, bringing the 2017 fiscal year return to -4.1%. A decline in global crude oil inventories, due partially to strong demand, drove performance in the closing fiscal quarter. OPEC and Russia extended the agreement to curtail crude oil production through the year-end 2018, and U.S. producers pointed to 2018 production growth yet with an increased focus on returns. We expect these trends to continue in 2018 as they shape our positive outlook.

Upstream

Upstream oil and gas producers, as represented by the Tortoise North American Oil and Gas Producers Index℠, finally turned in a positive fiscal quarter returning 14.9%, bringing the 2017 fiscal year performance to -15.5%. Commodity price volatility and an uncertain 2018 OPEC policy weighed on performance. Crude oil prices opened the fiscal year with West Texas Intermediate (WTI) at $49.44 per barrel before hitting a fiscal year low of $42.31 in June and then ending the fiscal year higher at $57.40 per barrel. OPEC confirmed its 2018 policy, though only at the fiscal year-end after shifting statements throughout the year. Natural gas prices opened the fiscal year at $3.30 per million British thermal units (MMBtu), quickly hit their high of $3.76 on December 7, 2016, sunk to a fiscal year low of $2.44 shortly thereafter and closed the fiscal year at $2.94.

In 2018, we expect crude oil and natural gas production to grow even as producers focus more on capital spending within cash flow. U.S. crude oil production averaged an estimated 9.3 million barrels per day (MMbbl/d)[1] in 2017. The 2018 forecast is for 10.3 MMbbl/d. If reached, it would be a record high[1]. Natural gas production is expected to average 72.6 billion cubic feet per day (bcf/d) in 2017, and 79.3 in 2018[2] supported by a rise in both natural gas exports and domestic consumption in 2018, per the EIA.

Midstream

Midstream fundamentals remained steady throughout the fiscal year, supported by consistently strong quarterly earnings reports. However, these solid fundamental results did not translate to positive stock performance. Pipeline companies, as measured by the Tortoise North American Pipeline Index℠, retreated back to negative territory in the final fiscal quarter returning -0.9%, resulting in a fiscal year 2017 return of 2.8%. MLPs, as represented by the Tortoise MLP Index®, didn’t fare as well for the full fiscal year, returning -5.4%, with a fourth fiscal quarter return of -4.0%.

While midstream fundamentals were healthy throughout the year, uncertainty resulted from simplification and IDR restructuring transactions and the trend towards self-funding. Sometimes these actions also resulted in lower distribution rates. An added boost of certainty did arrive after the close of the fiscal year. President Trump signed tax reform legislation that resulted in lower corporate tax rates, an unchanged definition of qualifying income for MLPs, and improved pass-through rates for partnerships like MLPs. Notably, the lower corporate tax rate directly benefits MLP closed-end funds structured as C-Corporations.

Performance across pipeline segments varied during the fiscal year. Local gas distribution companies were by far the strongest performers throughout the period as these utilities performed well in a low interest rate environment. While natural gas pipelines had slightly positive performance, all other pipeline segments turned in negative performance for the fiscal year. Our long-term outlook for the midstream sector remains positive as the need for greater pipeline capacity remains. We project capital investments in MLPs, pipelines and related organic projects at approximately $145 billion for 2017 to 2019.

Downstream

Low natural gas prices are making U.S. natural gas exports competitive. For many countries, specifically in Europe and Asia, it is cheaper to import U.S. natural gas than it is to produce domestically. In particular, 2017 was the strongest year for U.S. natural gas exports. According to the EIA, natural gas exports to Mexico were 10% higher on average in 2017 compared to 2016. In 2017, liquefied natural gas (LNG) exports from the U.S. averaged nearly 2 bcf/d. With several additional LNG facilities expected to come online in 2018 and 2019, we believe growth will continue. This creates a significant opportunity for many U.S. companies along the energy value chain, including U.S. natural gas producers, natural gas pipeline operators, as well as LNG facilities operators.

We continue to expect renewables to play an increasing role in electricity generation. U.S. wind electricity generation totaled 81 gigawatts (GW) at the end of 2016. That total is expected to increase to 88 GW and 96 GW by the end of 2017 and 2018, respectively. U.S. solar generation at the end of 2016 was 22 GW. With expected capacity additions, that total is expected to increase to 27 GW by the end of 2017 and to 30 GW by the end of 2018[1].

Capital markets

Though total capital market issuance in fiscal year 2017 was nearly equal between debt and equity, debt markets remained supportive for MLPs throughout while equity access was fickle. MLPs and other pipeline companies raised more than $91 billion during the period that included five midstream initial public offerings (IPOs). In the final fiscal quarter, BP Midstream was the largest and most notable MLP IPO while Oasis Midstream Partners LP also went public. We think that companies will continue to rely less on equity capital markets access and will seek to utilize alternative forms of capital.

Merger and acquisition activity among MLPs and other pipeline companies amounted to a modest $7.6 billion during the fiscal quarter, bringing the fiscal year total to approximately $75 billion. Phillips 66 Partners LP announced the largest transaction of the fiscal quarter, in a deal valued at about $2.4 billion.

(unaudited)

Tax reform

After much anticipation, The Tax Cuts and Jobs Act ("The Act") was signed into law on December 22, 2017. This new legislation provides sweeping changes across all industries. We believe the three changes that could have the most impact to our funds are the reduction of the U.S. corporate tax rate, 100% annual expensing on capital investments, and 30% interest expense deduction limitation. The Act reduced the U.S. corporate tax rate from 35% to 21%. This has an immediate impact to our C-corporation funds, TYG and NTG as they must revalue all deferred tax assets and liabilities using the new reduced rate. A reduced tax rate equates to a reduction in the net deferred tax liability and conversely an increase to the NAV. This impact was reflected in the NAV's on the day of enactment. Additionally, any current tax liability will be calculated using a reduced blended rate for the upcoming fiscal year ending November 30, 2018 and will be subject to the 21% rate thereafter. Furthermore, the new legislation allows companies to expense 100% of their annual capital investments for the next five years. This could have a meaningful impact on the MLP's in which the funds invest. Lastly, The Act provides for an interest expense deduction limitation set at 30% of EBITDA for four years. We believe this should have little or no impact to our funds. The wide-spread changes that result from the new legislation will transform the tax landscape and we will continue to monitor and evaluate the impact to our funds.

Concluding thoughts

At Tortoise, we believe the energy sector was underappreciated by investors in 2017. Yet, there are few sectors other than energy where demand has grown in 32 out of the last 33 years[3]. Looking to 2018, supply and demand fundamentals in the U.S. are expected to remain favorable with commodity prices at levels supportive of further production growth. Exports should only grow as the U.S. is a low cost energy provider to the rest of the world. Further, the recent favorable changes to corporate tax rates add to a growing list of competitive advantages for U.S. energy. We're optimistic returns will be compelling across the energy value chain in 2018.

Sincerely,

The Managing Directors
Tortoise Capital Advisors, L.L.C.

The S&P Energy Select Sector® Index is a capitalization-weighted index of S&P 500® Index companies in the energy sector involved in the development or production of energy products. The Tortoise North American Oil and Gas Producers Index℠ is a float-adjusted, capitalization-weighted index of North American energy companies engaged primarily in the production of crude oil, condensate, natural gas or natural gas liquids (NGLs). The Tortoise North American Pipeline Index℠ is a float adjusted, capitalization-weighted index of energy pipeline companies domiciled in the United States and Canada. The Tortoise MLP Index® is a float-adjusted, capitalization-weighted index of energy master limited partnerships.

The Tortoise indices are the exclusive property of Tortoise Index Solutions, LLC, which has contracted with S&P Opco, LLC (a subsidiary of S&P Dow Jones Indices LLC) to calculate and maintain the Tortoise MLP Index®, Tortoise North American Pipeline Index℠ and Tortoise North American Oil and Gas Producers Index℠ (the "Indices"). The Indices are not sponsored by S&P Dow Jones Indices or its affiliates or its third party licensors (collectively, "S&P Dow Jones Indices LLC"). S&P Dow Jones Indices will not be liable for any errors or omission in calculating the Indices. "Calculated by S&P Dow Jones Indices" and its related stylized mark(s) are service marks of S&P Dow Jones Indices and have been licensed for use by Tortoise Index Solutions, LLC and its affiliates. S&P® is a registered trademark of Standard & Poor's Financial Services LLC ("SPFS"), and Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones").

It is not possible to invest directly in an index.

Performance data quoted represent past performance; past performance does not guarantee future results. Like any other stock, total return and market value will fluctuate so that an investment, when sold, may be worth more or less than its original cost.

1 Energy Information Administration, January 2018
2 PIRA Natural Gas, December 2017
3 BP

(unaudited)

Tortoise
Energy Infrastructure Corp. (TYG)

Fund description

TYG seeks a high level of total return with an emphasis on current distributions paid to stockholders. TYG invests primarily in equity securities of master limited partnerships (MLPs) and their affiliates that transport, gather, process or store natural gas, natural gas liquids (NGLs), crude oil and refined petroleum products.

Fund performance review

The fund's market-based and NAV-based returns for the fiscal year ending November 30, 2017 were -7.5% and -9.1%, respectively (including the reinvestment of distributions). Comparatively, the Tortoise MLP Index® returned -5.4% for the same period. Midstream fundamentals remained steady throughout the fiscal year, supported by consistently strong quarterly earnings reports. However, these solid fundamental results did not translate to positive stock performance. While midstream fundamentals were healthy, uncertainty resulted from simplification and IDR restructuring transactions and the trend towards self-funding. Sometimes these actions also resulted in lower distribution rates.

Fiscal year-end highlights

Distributions paid per share (fiscal year 2017)	$2.62
Distributions paid per share (4th quarter 2017)	$0.6550
Distribution rate (as of 11/30/2017)	10.1%
Quarter-over-quarter distribution increase	0.0%
Year-over-year distribution increase	0.0%
Cumulative distributions paid per share to stockholders since inception in February 2004	$30.4625
Market-based total return	(7.5)%
NAV-based total return	(9.1)%
Premium (discount) to NAV (as of 11/30/2017)	8.1%

Unlike the fund return, index return is pre-expenses and taxes.

Performance data quoted represent past performance; past performance does not guarantee future results. Like any other stock, total return and market value will fluctuate so that an investment, when sold, may be worth more or less than its original cost. Portfolio composition is subject to change due to ongoing management of the fund. References to specific securities or sectors should not be construed as a recommendation by the fund or its adviser. See Schedule of Investments for portfolio weighting at the end of the fiscal quarter.

Key asset performance drivers

ONEOK Partners, L.P.	Midstream natural gas/natural gas liquids pipeline MLP	Acquisition by parent company ONEOK, Inc.
MPLX LP	Midstream gathering and processing MLP	Greater strategic clarity on dropdowns and incentive distribution rights restructuring
Dominion Energy Midstream Partners, LP	Midstream natural gas/natural gas liquids pipeline MLP	Visibility to strong growth in an otherwise weak market and from dropdown asset suite of sponsor
Noble Midstream Partners LP	Midstream gathering and processing MLP	Visibility to strong growth in an otherwise weak market and from dropdown asset suite of sponsor
DCP Midstream, LP	Midstream gathering and processing MLP	Improving commodity prices and a positive outlook for natural gas liquids (NGLs) demand
Plains All American Pipeline, L.P.	Midstream crude oil pipeline MLP	Reduced distribution on weaker supply & logistics outlook
Energy Transfer Partners, L.P.	Midstream natural gas/natural gas liquids pipeline MLP	Concerns about equity funding for project backlog

Buckeye Partners, L.P.	Midstream refined product pipeline MLP	Concerns about distribution coverage
Genesis Energy L.P.	Midstream crude oil pipeline MLP	Reduced distribution
Western Gas Partners, LP	Midstream gathering and processing MLP	Concerns about distribution coverage and need to restructure IDRs

(unaudited)