TORTOISE ENERGY INFRASTRUCTURE CORP Form N-Q April 20, 2011

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

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMPANY

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)

David J. Schulte 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: February 28, 2011

Item 1. Schedule of Investments.

Tortoise Energy Infrastructure Corporation SCHEDULE OF INVESTMENTS (Unaudited)

	February 28, 2011			
Master Limited Partnerships and Related Companies -	, , , , , , , , , , , , , , , , , , ,			
164.9% (1)	Shares		Fair Value	
Crude/Refined Products Pipelines - 66.1% (1)				
United States - 66.1% (1)				
Blueknight Energy Partners, L.P. (2)	342,162	\$	2,788,620	
Buckeye Partners, L.P.	1,134,390		73,531,160	
Enbridge Energy Partners, L.P.	1,755,900		117,715,536	
Holly Energy Partners, L.P.	616,000		36,744,400	
Kinder Morgan Management, LLC (3)	1,750,460		114,847,691	
Magellan Midstream Partners, L.P.	1,493,800		90,285,272	
NuStar Energy L.P.	926,400		64,986,960	
Plains All American Pipeline, L.P.	993,100		65,018,257	
Sunoco Logistics Partners L.P.	807,900		71,491,071	
			637,408,967	
Natural Gas/Natural Gas Liquids Pipelines - 65.5% (1)				
United States - 65.5% (1)				
Boardwalk Pipeline Partners, LP	1,761,700		58,506,057	
Duncan Energy Partners L.P.	424,700		17,298,031	
El Paso Pipeline Partners, L.P.	1,254,300		47,287,110	
Energy Transfer Equity, L.P.	522,610		21,003,696	
Energy Transfer Partners, L.P.	2,272,000		124,573,760	
Enterprise Products Partners L.P.	2,895,600		126,248,160	
Niska Gas Storage Partners LLC	501,300		10,151,325	
ONEOK Partners, L.P.	766,700		63,751,105	
PAA Natural Gas Storage, L.P.	285,167		6,949,520	
PAA Natural Gas Storage, L.P. (4)	700,771		15,332,870	
Spectra Energy Partners, LP	493,020		16,205,567	
TC PipeLines, LP	1,376,389		74,682,867	
Williams Partners L.P.	960,200		49,795,972	
			631,786,040	
Natural Gas Gathering/Processing - 23.9% (1)				
United States - 23.9% (1)				
Chesapeake Midstream Partners, L.P.	358,116		9,325,341	
Copano Energy, L.L.C.	999,440		36,189,722	
DCP Midstream Partners, LP	1,106,100		46,743,786	
MarkWest Energy Partners, L.P.	1,066,900		47,903,810	
Regency Energy Partners LP	726,700		20,180,459	
Targa Resources Partners LP	1,822,225		62,411,206	
Western Gas Partners LP	205,075		7,431,918	
			230,186,242	

Propane Distribu	tion - 8.8% (1)			
United States - 8	.8% (1)			
Inergy, L.P.		2,043,700		84,772,676
Shipping - 0.6%	(1)			
Republic of the I	Marshall Islands - 0.6% (1)			
Teekay LNG Par	rtners L.P.	156,200		5,948,096
Total Master Lin	nited Partnerships and Related Companies			
(Cost \$777,193,6	559)			1,590,102,021
Short-Term Inve	stment - 0.0% (1)			
United States Inv	vestment Company - 0.0% (1)			
Fidelity Institution	onal Government Portfolio - Class I, 0.01%			
(5) (Cost \$98,68-	4)	98,684		98,684
Total Investment	ts - 164.9% (1) (Cost \$777,292,343)			1,590,200,705
Other Assets and	l Liabilities - (39.7%) (1)			(382,604,494)
Long-Term Debt	t Obligations - (17.6%) (1)			(169,975,000)
Mandatory Rede	emable Preferred Stock at Liquidation			
Value - (7.6%) (1)			(73,000,000)
Total Net Assets	Applicable to Common Stockholders -			
100.0% (1)			\$	964,621,211
	Calculated as a percentage of net assets			
(1)	applicable to common stockholders.			
(2)	Non-income producing.			
(3)	Security distributions are paid-in-kind.			
	Restricted securities have been fair valued in ac	ccordance with procedures ap	prove	ed by the Board
(4)	of Directors and			
	have a total fair value of \$15,332,870, which re	presents 1.6% of net assets.		
	Rate indicated is the current yield as of			
(5)	February 28, 2011.			

Various inputs are used in determining the value of the Company's investments. These inputs are summarized in the three broad levels listed below:

Level 1 – quoted prices in active markets for identical investments

Level 2 – other significant observable inputs (including quoted prices for similar investments, market corroborated inputs, etc.)

Level 3 – significant unobservable inputs (including the Company's own assumptions in determining the fair value of investments)

The inputs or methodology used for valuing securities are not necessarily an indication of the risk associated with investing in those securities.

The following table provides the fair value measurements of applicable Company assets by level within the fair value hierarchy as of February 28, 2011. These assets are measured on a recurring basis.

	Fair Value at			
	February 28,			
Description	2011	Level 1	Level 2	Level 3
Equity Securities:				
Master Limited Partnerships and Related				
Companies(a)	\$1,590,102,021	\$1,574,769,151	\$15,332,870	\$-
Total Equity Securities	1,590,102,021	1,574,769,151	15,332,870	-
Other:				
Short-Term Investment(b)	98,684	98,684	-	-
Total Other	98,684	98,684	-	-
Total	\$1,590,200,705	\$1,574,867,835	\$15,332,870	\$-

- (a) All other industry classifications are identified in the Schedule of Investments.
- (b) Short-term investment is a sweep investment for cash balances in the Company at February 28, 2011.

Valuation Techniques

In general, and where applicable, the Company uses readily available market quotations based upon the last updated sales price from the principal market to determine fair value. This pricing methodology applies to the Company's Level 1 investments.

An equity security of a publicly traded company acquired in a private placement transaction without registration under the Securities Act of 1933, as amended (the "1933 Act"), is subject to restrictions on resale that can affect the security's fair value. If such a security is convertible into publicly-traded common shares, the security generally will be valued at the common share market price adjusted by a percentage discount due to the restrictions and categorized as Level 2 in the fair value hierarchy. If the security has characteristics that are dissimilar to the class of security that trades on the open market, the security will generally be valued and categorized as Level 3 in the fair value hierarchy.

The Company utilizes the beginning of reporting period method for determining transfers between levels. There were no transfers between levels during the period from December 1, 2010 through February 28, 2011.

Certain of the Company's investments are restricted and are valued as determined in accordance with procedures established by the Board of Directors. The table below shows the number of units held, acquisition date, acquisition cost, fair value, fair value per share and percent of net assets which the security comprises at February 28, 2011.

							Fair Value
				Acquisition	l	Fair Value	as Percent
Investme	nt Security	Number of	Acquisition	n Cost	Fair Value	Per Share	of
		Shares	Date				Net Assets
PAA Natural Gas	Unregistered	700,771	2/8/11	\$	\$	\$ 21.88	1.6%
Storage, L.P.	Common Units			15,000,000	15,332,870		

The carrying value per unit of unrestricted common units of PAA Natural Gas Storage, L.P. was \$24.38 on December 23, 2010, the date the purchase agreement and the date an enforceable right to acquire the restricted PAA Natural Gas Storage, L.P. units was obtained by the Company.

As of February 28, 2011, the aggregate cost of securities for federal income tax purposes was \$630,653,098. The aggregate gross unrealized appreciation for all securities in which there was an excess of fair value over tax cost was \$963,388,848, the aggregate gross unrealized depreciation for all securities in which there was an excess of tax cost over fair value was \$3,841,241 and the net unrealized appreciation was \$959,547,607.

Item 2. Controls and Procedures.

- (a) The registrant's President and Chief Executive Officer and its Chief Financial Officer have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940 (the "1940 Act")) are effective as of a date within 90 days of the filing date of this report, based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) or 15d-15(b) under the Securities Exchange Act of 1934, as amended.
- (b) There was no change in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant's last fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 3. Exhibits.

Separate certifications for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the 1940 Act (17 CFR 270.30a-2(a)) are filed herewith.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Tortoise Energy Infrastructure Corporation

Date: April 20, 2011 By: /s/ David J. Schulte

David J. Schulte

President and Chief Executive

Officer

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Tortoise Energy Infrastructure Corporation

Date: April 20, 2011 By: /s/ David J. Schulte

David J. Schulte

President and Chief Executive

Officer

Tortoise Energy Infrastructure Corporation

Date: April 20, 2011 By: /s/ Terry Matlack

Terry Matlack

Chief Financial Officer