

BlackRock Utilities, Infrastructure & Power Opportunities Trust
Form N-Q
May 22, 2018

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: 811-22606

Name of Fund: BlackRock Utilities, Infrastructure & Power Opportunities Trust (BUI)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock Utilities,
Infrastructure and Power Opportunities Trust, 55 East 52nd Street, New York, NY 10055

Registrant's telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 12/31/2018

Date of reporting period: 03/31/2018

Item 1 Schedule of Investments

Schedule of Investments (unaudited)

BlackRock Utilities, Infrastructure & Power

March 31, 2018

Opportunities Trust (BUI)**(Percentages shown are based on Net Assets)**

| <i>Security</i> | <i>Shares</i> | <i>Value</i> |
|---|---------------|--------------|
| Common Stocks 100.0% | | |
| Auto Components 1.9% | | |
| Valeo SA | 99,350 | \$ 6,572,011 |
| Building Products 1.0% | | |
| Kingspan Group PLC | 80,816 | 3,420,737 |
| Chemicals 3.7% | | |
| Air Liquide SA | 53,100 | 6,516,300 |
| Linde AG ^(a) | 28,950 | 6,117,399 |
| | | 12,633,699 |
| Electric Utilities 35.3% | | |
| American Electric Power Co., Inc. ^(b) | 96,220 | 6,599,730 |
| Duke Energy Corp. ^(b) | 155,468 | 12,044,106 |
| Edison International | 91,290 | 5,811,521 |
| Enel SpA | 2,947,617 | 18,037,090 |
| Eversource Energy ^(b) | 80,420 | 4,738,346 |
| Exelon Corp. ^{(b)(c)} | 269,310 | 10,505,783 |
| FirstEnergy Corp. ^(b) | 202,980 | 6,903,350 |
| Fortis, Inc. | 144,250 | 4,871,323 |
| Iberdrola SA | 205,992 | 1,514,739 |
| NextEra Energy, Inc. ^{(b)(c)} | 222,950 | 36,414,424 |
| PG&E Corp. | 80,000 | 3,514,400 |
| Pinnacle West Capital Corp. ^(b) | 46,720 | 3,728,256 |
| PPL Corp. ^(b) | 114,710 | 3,245,146 |
| Xcel Energy, Inc. | 71,400 | 3,247,272 |
| | | 121,175,486 |
| Electrical Equipment 4.0% | | |
| Schneider Electric SE | 79,400 | 6,992,071 |
| Vestas Wind Systems A/S | 94,150 | 6,736,613 |
| | | 13,728,684 |
| Independent Power and Renewable Electricity Producers 9.0% | | |
| China Longyuan Power Group Corp. Ltd., Class H | 10,218,000 | 7,891,169 |
| EDP Renovaveis SA | 1,874,050 | 18,355,157 |
| NRG Yield, Inc., Class C ^(b) | 172,160 | 2,926,720 |
| Pattern Energy Group, Inc. ^(b) | 102,880 | 1,778,795 |
| | | 30,951,841 |

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| | | |
|---|---------------|--------------|
| Multi-Utilities 18.4% | | |
| CMS Energy Corp. ^(b) | 127,700 | 5,783,533 |
| Dominion Energy, Inc. ^(b) | 180,060 | 12,141,445 |
| DTE Energy Co. ^(b) | 46,620 | 4,867,128 |
| National Grid PLC | 1,160,424 | 13,062,291 |
| NiSource, Inc. ^(b) | 133,100 | 3,182,421 |
| Public Service Enterprise Group, Inc. ^(b) | 239,616 | 12,038,308 |
| <i>Security</i> | <i>Shares</i> | <i>Value</i> |
| Multi-Utilities (continued) | | |
| Sempra Energy ^(b) | 70,350 | \$ 7,824,327 |
| WEC Energy Group, Inc. ^(b) | 70,180 | 4,400,286 |
| | | 63,299,739 |
| Oil, Gas & Consumable Fuels 10.7% | | |
| Enbridge, Inc. ^(b) | 261,440 | 8,227,517 |
| Energy Transfer Partners LP ^(b) | 168,569 | 2,734,189 |
| Enterprise Products Partners LP ^(b) | 118,514 | 2,901,223 |
| MPLX LP | 87,389 | 2,887,332 |
| ONEOK, Inc. ^(b) | 59,551 | 3,389,643 |
| Targa Resources Corp. ^(b) | 33,630 | 1,479,720 |
| TransCanada Corp. | 211,250 | 8,736,291 |
| Williams Cos., Inc. ^(b) | 254,000 | 6,314,440 |
| | | 36,670,355 |
| Transportation Infrastructure 15.2% | | |
| Abertis Infraestructuras SA | 399,000 | 8,944,750 |
| Aeroports de Paris | 20,870 | 4,546,773 |
| Atlantia SpA | 410,724 | 12,726,837 |
| Flughafen Zuerich AG | 12,110 | 2,674,604 |
| Fraport AG Frankfurt Airport Services Worldwide | 23,430 | 2,312,355 |
| Getlink SE, Registered Shares | 299,950 | 4,281,251 |
| Sydney Airport | 1,342,976 | 6,963,024 |
| Transurban Group | 1,112,890 | 9,814,138 |
| | | 52,263,732 |
| Water Utilities 0.8% | | |
| American Water Works Co., Inc. | 32,220 | 2,646,229 |
| Total Long-Term Investments 100.0% | | |
| (Cost \$279,094,663) | | 343,362,513 |
| Short-Term Securities 0.8% | | |
| BlackRock Liquidity Funds, T-Fund, Institutional Class, 1.58% ^{(d)(e)} | 2,741,894 | 2,741,894 |
| Total Short-Term Securities 0.8% | | |
| (Cost \$2,741,894) | | 2,741,894 |
| Total Investments Before Options Written 100.8% | | |
| (Cost \$281,836,557) | | 346,104,407 |

| | |
|--|----------------|
| Options Written (0.9)% | |
| (Premiums Received \$2,034,183) | (2,922,957) |
| Total Investments, Net of Options Written 99.9% | |
| (Cost \$279,802,374) | 343,181,450 |
| Other Assets Less Liabilities 0.1% | 217,387 |
| Net Assets 100.0% | \$ 343,398,837 |

- (a) Non-income producing security.
- (b) All or a portion of security has been pledged and/or segregated as collateral in connection with outstanding exchange-traded options written.
- (c) All or a portion of the security has been pledged as collateral in connection with outstanding OTC derivatives.
- (d) Annualized 7-day yield as of period end.

Schedule of Investments (unaudited) (continued)

BlackRock Utilities, Infrastructure & Power

March 31, 2018

Opportunities Trust (BUI)

(e) During the period ended March 31, 2018, investments in issuers considered to be an affiliate of the Trust for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

| <i>Affiliate</i> | <i>Shares Held at 12/31/17</i> | <i>Net Activity</i> | <i>Shares Held at 03/31/18</i> | <i>Value at 03/31/18</i> | <i>Income</i> | <i>Realized Gain (Loss)</i> | <i>Change in Net Unrealized Appreciation (Depreciation)</i> |
|--|--|-------------------------|--|------------------------------|---------------|---------------------------------|---|
| BlackRock Liquidity Funds, T-Fund, Institutional Class | 6,376,831 | (3,634,937) | 2,741,894 | \$ 2,741,894 | \$ 15,819 | \$ | \$ |

(a) Includes net capital gain distributions, if applicable.

For Trust compliance purposes, the Trust's sector classifications refer to one or more of the industry sub-classifications used by one or more widely recognized market indexes or rating group indexes, and/or as defined by the investment adviser. These definitions may not apply for purposes of this report, which may combine such industry sub-classifications for reporting ease.

Portfolio Abbreviations

AUD Australian Dollar

CAD Canadian Dollar

CHF Swiss Franc

DKK Danish Krone

EUR Euro

GBP British Pound

HKD Hong Kong Dollar

USD U.S. Dollar

Derivative Financial Instruments Outstanding as of Period End

Exchange-Traded Options Written

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| <i>Description</i> | <i>Number of</i> | <i>Expiration</i> | | <i>Exercise</i> | <i>Notional</i> | | <i>Value</i> |
|---------------------------------|------------------|-------------------|-----|-----------------|------------------|-------------|--------------|
| | | | | | <i>Contracts</i> | <i>Date</i> | |
| Call | | | | | | | |
| TransCanada Corp. | 151 | 04/06/18 | CAD | 56.50 | CAD | 805 | \$ (703) |
| Williams Cos., Inc. | 367 | 04/06/18 | USD | 29.00 | USD | 912 | (5,138) |
| FirstEnergy Corp. | 147 | 04/09/18 | USD | 32.15 | USD | 500 | (28,824) |
| Williams Cos., Inc. | 50 | 04/13/18 | USD | 28.00 | USD | 124 | (300) |
| DTE Energy Co. | 163 | 04/20/18 | USD | 105.00 | USD | 1,702 | (22,820) |
| Dominion Energy, Inc. | 256 | 04/20/18 | USD | 77.50 | USD | 1,726 | (1,280) |
| Dominion Energy, Inc. | 374 | 04/20/18 | USD | 75.00 | USD | 2,522 | (1,870) |
| Duke Energy Corp. | 544 | 04/20/18 | USD | 80.00 | USD | 4,214 | (25,840) |
| Enbridge, Inc. | 210 | 04/20/18 | USD | 40.80 | USD | 661 | |
| Enbridge, Inc. | 88 | 04/20/18 | USD | 32.50 | USD | 277 | (2,860) |
| Energy Transfer Partners LP | 313 | 04/20/18 | USD | 20.00 | USD | 508 | (1,565) |
| Enterprise Products Partners LP | 138 | 04/20/18 | USD | 26.00 | USD | 338 | (1,380) |
| Eversource Energy | 157 | 04/20/18 | USD | 60.00 | USD | 925 | (10,598) |
| Exelon Corp. | 471 | 04/20/18 | USD | 37.00 | USD | 1,837 | (107,153) |
| FirstEnergy Corp. | 111 | 04/20/18 | USD | 34.00 | USD | 378 | (8,602) |
| NRG Yield, Inc., Class C | 168 | 04/20/18 | USD | 17.50 | USD | 286 | (3,360) |
| NextEra Energy, Inc. | 585 | 04/20/18 | USD | 160.00 | USD | 9,555 | (312,975) |
| NiSource, Inc. | 270 | 04/20/18 | USD | 23.75 | USD | 646 | (15,552) |
| PPL Corp. | 401 | 04/20/18 | USD | 29.00 | USD | 1,134 | (12,030) |

Schedule of Investments (unaudited) (continued)

BlackRock Utilities, Infrastructure & Power

March 31, 2018

Opportunities Trust (BUI)

Exchange-Traded Options Written (continued)

| Description | Number of Contracts | Expiration Date | Exercise Price | Notional | | Value |
|---------------------------------------|------------------------|--------------------|-------------------|--------------|--|--------------|
| | | | | Amount (000) | | |
| Call | | | | | | |
| Pinnacle West Capital Corp. | 163 | 04/20/18 | USD 80.00 | USD 1,301 | | \$ (27,710) |
| Public Service Enterprise Group, Inc. | 484 | 04/20/18 | USD 50.00 | USD 2,432 | | (54,450) |
| Sempra Energy | 145 | 04/20/18 | USD 110.00 | USD 1,613 | | (44,225) |
| Targa Resources Corp. | 77 | 04/20/18 | USD 50.00 | USD 339 | | (962) |
| TransCanada Corp. | 136 | 04/20/18 | CAD 57.00 | CAD 725 | | (1,425) |
| Williams Cos., Inc. | 236 | 04/20/18 | USD 28.00 | USD 587 | | (1,180) |
| FirstEnergy Corp. | 111 | 04/25/18 | USD 34.01 | USD 378 | | (9,489) |
| Enterprise Products Partners LP | 276 | 04/27/18 | USD 26.00 | USD 676 | | (2,760) |
| ONEOK, Inc. | 124 | 04/27/18 | USD 58.00 | USD 706 | | (13,330) |
| Williams Cos., Inc. | 236 | 04/27/18 | USD 28.00 | USD 587 | | (2,832) |
| Targa Resources Corp. | 40 | 04/30/18 | USD 48.01 | USD 176 | | (1,142) |
| Pattern Energy Group, Inc. | 140 | 05/04/18 | USD 18.50 | USD 242 | | (3,128) |
| FirstEnergy Corp. | 96 | 05/08/18 | USD 35.01 | USD 326 | | (4,799) |
| American Electric Power Co., Inc. | 336 | 05/18/18 | USD 70.00 | USD 2,305 | | (42,840) |
| Energy Transfer Partners LP | 276 | 05/18/18 | USD 18.00 | USD 448 | | (6,900) |
| FirstEnergy Corp. | 110 | 05/18/18 | USD 36.00 | USD 374 | | (5,720) |
| ONEOK, Inc. | 84 | 05/18/18 | USD 60.00 | USD 478 | | (6,510) |
| Public Service Enterprise Group, Inc. | 130 | 05/18/18 | USD 50.00 | USD 653 | | (22,425) |
| TransCanada Corp. | 90 | 05/18/18 | CAD 58.00 | CAD 480 | | (1,746) |
| TransCanada Corp. | 120 | 05/18/18 | CAD 56.00 | CAD 639 | | (5,216) |
| WEC Energy Group, Inc. | 139 | 05/18/18 | USD 65.00 | USD 872 | | (9,383) |
| | | | | | | \$ (831,022) |

OTC Options Written

| Description | Counterparty | Number of Contracts | Expiration Date | Exercise Price | Notional Amount (000) | Value |
|----------------------------------|--|------------------------|--------------------|-------------------|--------------------------|----------|
| Call | | | | | | |
| Enbridge, Inc. | Morgan Stanley & Co. International PLC | 13,800 | 04/02/18 | USD 38.50 | USD 434 | \$ |
| Pattern Energy Group, Inc. | UBS AG | 22,000 | 04/02/18 | USD 20.53 | USD 380 | |
| | Goldman Sachs International | 1,000,000 | 04/04/18 | HKD 5.45 | HKD 6,060 | (78,031) |

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| | | | | | | | | |
|---|--|-----------|----------|-----|--------|-----|--------|-----------|
| China Longyuan Power Group Corp. Ltd., Class H National Grid PLC | Goldman Sachs International | 106,100 | 04/04/18 | GBP | 7.53 | GBP | 851 | (74,722) |
| Vestas Wind Systems A/S | Goldman Sachs International | 33,000 | 04/04/18 | DKK | 465.36 | DKK | 14,306 | (472) |
| Enel SpA | Credit Suisse International | 200,000 | 04/05/18 | EUR | 4.77 | EUR | 994 | (50,593) |
| Schneider Electric SE | Goldman Sachs International | 15,100 | 04/05/18 | EUR | 72.33 | EUR | 1,081 | (12,108) |
| CMS Energy Corp. | Credit Suisse International | 44,600 | 04/09/18 | USD | 43.26 | USD | 2,020 | (106,763) |
| Valeo SA | Goldman Sachs International | 18,100 | 04/10/18 | EUR | 61.38 | EUR | 973 | (33) |
| Air Liquide SA | Goldman Sachs International | 3,300 | 04/11/18 | EUR | 104.85 | EUR | 329 | (304) |
| China Longyuan Power Group Corp. Ltd., Class H EDP | Morgan Stanley & Co. International PLC | 1,311,000 | 04/11/18 | HKD | 5.37 | HKD | 7,945 | (116,152) |
| Renovaveis SA | UBS AG | 164,000 | 04/11/18 | EUR | 7.32 | EUR | 1,305 | (129,071) |
| Enel SpA | Credit Suisse International | 514,600 | 04/11/18 | EUR | 4.89 | EUR | 2,558 | (75,910) |
| Iberdrola SA | Credit Suisse International | 36,000 | 04/11/18 | EUR | 6.25 | EUR | 215 | (323) |
| National Grid PLC | UBS AG | 97,000 | 04/11/18 | GBP | 7.62 | GBP | 778 | (55,955) |
| Sydney Airport | Deutsche Bank AG | 182,100 | 04/11/18 | AUD | 6.49 | AUD | 1,229 | (39,700) |
| Transurban Group | Deutsche Bank AG | 145,200 | 04/11/18 | AUD | 11.77 | AUD | 1,667 | (6,867) |
| NRG Yield, Inc., Class C | Barclays Bank PLC | 43,400 | 04/12/18 | USD | 17.03 | USD | 738 | (12,903) |
| Atlanta SpA | Goldman Sachs International | 48,000 | 04/13/18 | EUR | 25.94 | EUR | 1,209 | (8,765) |
| China Longyuan Power Group Corp. Ltd., Class H | Morgan Stanley & Co. International PLC | 1,266,000 | 04/13/18 | HKD | 5.26 | HKD | 7,672 | (130,473) |

Schedule of Investments (unaudited) (continued)

BlackRock Utilities, Infrastructure & Power

March 31, 2018

Opportunities Trust (BUI)

OTC Options Written (continued)

| <i>Description</i> | <i>Counterparty</i> | <i>Number of Contracts</i> | <i>Expiration Date</i> | <i>Exercise Price</i> | <i>Notional Amount (000)</i> | <i>Value</i> | | |
|---|--|---|--|---|--|---|--|--|
| Call Public Service Enterprise Group, Inc. Fraport AG Frankfurt Airport Services Worldwide Getlink SE, Registered Shares National Grid PLC NiSource, Inc. Aeroports de Paris EDP Renovaveis SA EDP Renovaveis SA Atlanta SpA Iberdrola SA Transurban Group Fortis, Inc. Eversource Energy WEC Energy Group, Inc. Air Liquide SA EDP Renovaveis SA NiSource, Inc. | Bank of America N.A. Credit Suisse International UBS AG UBS AG UBS AG Credit Suisse International UBS AG Morgan Stanley & Co. International PLC Credit Suisse International UBS AG Bank of America N.A. Deutsche Bank AG Citibank N.A. UBS AG UBS AG Credit Suisse International | 22,400 8,200 51,600 9,100 10,000 7,400 289,900 60,000 17,300 36,000 98,974 25,000 12,400 10,600 15,300 60,000 9,500 | 04/13/18 04/17/18 04/17/18 04/17/18 04/17/18 04/18/18 04/18/18 04/18/18 04/19/18 04/19/18 04/19/18 04/23/18 04/24/18 04/24/18 04/25/18 04/25/18 04/25/18 | USD EUR EUR GBP USD EUR EUR EUR EUR EUR AUD USD USD USD EUR EUR USD | 50.62 85.59 10.65 7.53 23.56 183.70 7.52 7.19 25.52 6.08 11.75 33.77 58.71 62.89 102.00 7.19 23.49 | USD EUR EUR GBP USD EUR EUR EUR EUR EUR AUD USD USD USD EUR EUR USD | 1,125 658 599 73 239 1,310 2,308 478 436 215 1,136 844 731 665 1,526 478 227 | \$ (14,526) (1,559) (62,576) (6,500) (6,516) (11,859) (160,055) (57,058) (7,994) (2,239) (8,021) (26,115) (18,133) (15,172) (17,642) (57,082) (7,379) |

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| | | | | | | | | |
|---|--|---------|----------|-----|--------|-----|-------|----------------|
| Enbridge, Inc. | Deutsche Bank AG | 47,900 | 04/26/18 | USD | 32.71 | USD | 1,507 | (20,141) |
| FirstEnergy Corp. | Citibank N.A. | 13,500 | 04/30/18 | USD | 32.01 | USD | 459 | (32,083) |
| Fortis, Inc. | Bank of America N.A. | 25,400 | 04/30/18 | USD | 33.71 | USD | 858 | (30,957) |
| Exelon Corp. | JPMorgan Chase Bank N.A. | 47,100 | 05/01/18 | USD | 38.59 | USD | 1,837 | (59,170) |
| Atlanta SpA | UBS AG | 78,500 | 05/02/18 | EUR | 28.13 | EUR | 1,977 | (2,306) |
| EDP Renovaveis SA | Credit Suisse International | 82,000 | 05/02/18 | EUR | 7.59 | EUR | 653 | (35,760) |
| Enel SpA | Credit Suisse International | 317,000 | 05/02/18 | EUR | 5.01 | EUR | 1,575 | (34,076) |
| Flughafen Züerich AG | UBS AG | 4,300 | 05/02/18 | CHF | 218.00 | CHF | 908 | (3,573) |
| National Grid PLC | Goldman Sachs International | 193,900 | 05/02/18 | GBP | 7.68 | GBP | 1,555 | (113,596) |
| Transurban Group | UBS AG | 145,300 | 05/02/18 | AUD | 12.03 | AUD | 1,668 | (5,919) |
| Schneider Electric SE | HSBC Bank PLC | 12,600 | 05/09/18 | EUR | 71.75 | EUR | 902 | (15,093) |
| Sydney Airport | UBS AG | 288,000 | 05/09/18 | AUD | 6.80 | AUD | 1,944 | (30,338) |
| Valeo SA | Credit Suisse International | 16,600 | 05/11/18 | EUR | 54.75 | EUR | 892 | (27,422) |
| Sempra Energy | UBS AG | 10,100 | 05/15/18 | USD | 112.90 | USD | 1,123 | (28,036) |
| Groupe Eurotunnel SE, Registered Shares | Goldman Sachs International | 53,300 | 05/17/18 | EUR | 11.79 | EUR | 618 | (16,539) |
| NextEra Energy, Inc. | Barclays Bank PLC | 19,500 | 05/17/18 | USD | 163.00 | USD | 3,185 | (94,279) |
| Xcel Energy, Inc. | Barclays Bank PLC | 24,900 | 05/21/18 | USD | 45.57 | USD | 1,132 | (34,348) |
| Kingspan Group PLC | Morgan Stanley & Co. International PLC | 28,000 | 05/23/18 | EUR | 33.57 | EUR | 963 | (58,465) |
| Linde AG | Morgan Stanley & Co. International PLC | 10,100 | 05/23/18 | EUR | 180.90 | EUR | 1,734 | (42,000) |
| American Water Works Co., Inc. | Morgan Stanley & Co. International PLC | 11,200 | 05/25/18 | USD | 82.27 | USD | 920 | (28,263) |
| | | | | | | | | \$ (2,091,935) |

Schedule of Investments (unaudited) (continued)

BlackRock Utilities, Infrastructure & Power

March 31, 2018

Oppurtunities Trust (BUI)**Fair Value Hierarchy as of Period End**

Various inputs are used in determining the fair value of investments. These inputs to valuation techniques are categorized into a fair value hierarchy consisting of three broad levels for financial reporting purposes as follows:

Level 1 Unadjusted quoted prices in active markets/exchanges for identical assets or liabilities that the Trust has the ability to access

Level 2 Other observable inputs (including, but not limited to, quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 Unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust's own assumptions used in determining the fair value of investments)

The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3. The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the fair value hierarchy classification is determined based on the lowest level input that is significant to the fair value measurement in its entirety. Investments classified within Level 3 have significant unobservable inputs used by the BlackRock Global Valuation Methodologies Committee (the Global Valuation Committee) in determining the price for Fair Valued Investments. Level 3 investments include equity or debt issued by privately held companies or funds. There may not be a secondary market, and/or there are a limited number of investors. Level 3 investments may also be adjusted to reflect illiquidity and/or non-transferability, with the amount of such discount estimated by the Global Valuation Committee in the absence of market information.

Changes in valuation techniques may result in transfers into or out of an assigned level within the hierarchy. In accordance with the Trust's policy, transfers between different levels of the fair value hierarchy are deemed to have occurred as of the beginning of the reporting period. The categorization of a value determined for investments and derivative financial instruments and is not necessarily an indication of the risks associated with investing in these securities. For information about the Trust's policy regarding valuation of investments, refer to the Trust's most recent financial statements as contained in its annual report.

As of March 31, 2018, the following tables summarize the Trust's investments categorized in the disclosure hierarchy:

| <i>Level 1</i> | <i>Level 2</i> | <i>Level 3</i> | <i>Total</i> |
|----------------|----------------|----------------|--------------|
|----------------|----------------|----------------|--------------|

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Assets:

Investments:

Common Stocks:

| | | | | |
|---|----------------|----------------|----|----------------|
| Auto Components | \$ | \$ 6,572,011 | \$ | \$ 6,572,011 |
| Building Products | 3,420,737 | | | 3,420,737 |
| Chemicals | | 12,633,699 | | 12,633,699 |
| Electric Utilities | 101,623,657 | 19,551,829 | | 121,175,486 |
| Electrical Equipment | | 13,728,684 | | 13,728,684 |
| Independent Power and Renewable Electricity | | | | |
| Producers | 23,060,672 | 7,891,169 | | 30,951,841 |
| Multi-Utilities | 50,237,448 | 13,062,291 | | 63,299,739 |
| Oil, Gas & Consumable Fuels | 36,670,355 | | | 36,670,355 |
| Transportation Infrastructure | 4,281,251 | 47,982,481 | | 52,263,732 |
| Water Utilities | 2,646,229 | | | 2,646,229 |
| Short-Term Securities | 2,741,894 | | | 2,741,894 |
| | \$ 224,682,243 | \$ 121,422,164 | \$ | \$ 346,104,407 |

Derivative Financial Instruments^(a)

Liabilities:

| | | | | |
|------------------|--------------|----------------|----|----------------|
| Equity contracts | \$ (768,088) | \$ (2,154,869) | \$ | \$ (2,922,957) |
|------------------|--------------|----------------|----|----------------|

^(a) Derivative financial instruments are options written, which are shown at value. During the period ended March 31, 2018, there were no transfers between levels.

Item 2 Controls and Procedures

- 2(a) The registrant's principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the "1940 Act")) are effective as of a date within 90 days of the filing 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) under the Securities Exchange Act of 1934, as amended.
- 2(b) There were no changes 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 have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 3 Exhibits

Certifications Attached hereto

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.

BlackRock Utilities, Infrastructure and Power Opportunities Trust

By: /s/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock Utilities, Infrastructure and Power Opportunities Trust

Date: May 21, 2018

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.

By: /s/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock Utilities, Infrastructure and Power Opportunities Trust

Date: May 21, 2018

By: /s/ Neal J. Andrews
Neal J. Andrews
Chief Financial Officer (principal financial officer) of
BlackRock Utilities, Infrastructure and Power Opportunities Trust

Date: May 21, 2018