ING Infrastructure, Industrials & Materials Fund Form N-Q July 27, 2012

OMB APPROVAL

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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: 811-22051

ING Infrastructure, Industrials and Materials Fund

(Exact name of registrant as specified in charter)

7337 East Doubletree Ranch Rd., Suite 100, Scottsdale, AZ 85258

(Address of principal executive offices) (Zip code)

Huey P. Falgout, Jr., 7337 East Doubletree Ranch Road, Scottsdale, AZ 85258

(Name and address of agent for service)

Registrant s telephone number, including area code: 1-800-992-0180

Date of fiscal year end: February 28
Date of reporting period: May 31, 2012

Item 1. Schedule of Investments
The schedules of investments as of the close of the reporting period are set forth below for:
ING Infrastructure, Industrials and Materials Fund
The schedules are not audited.

PORTFOLIO OF INVESTMENTS as of May 31, 2012 (Unaudited)

ING Infrastructure, Industrials and Materials Fund

Shares			Value	Percentage of Net Assets
COMMON STOCK:	98.5%			
		Australia: 0.7%		
175,252		Iluka Resources Ltd.	\$ 2,282,325	0.7
		Brazil: 3.1%		
158,700		CPFL Energia SA ADR	3,856,410	1.1
204,500		Vale SA ADR	3,744,395	1.1
282,500		Weg S.A.	2,912,054	0.9
			10,512,859	3.1
		Canada: 0.6%		
531,600		Bombardier, Inc Class B	1,945,537	0.6
		Chile: 0.9%		
169,100		Enersis SA ADR	2,908,520	0.9
		China: 1.8%		
310,000		China Unicom Hong Kong Ltd. ADR	4,259,400	1.2
824,839		Dongfang Electrical Machinery Co., Ltd.	1,919,724	0.6
			6,179,124	1.8
		Finland: 0.8%		
66,684		Outotec Oyj	2,637,568	0.8
		France: 5.4%		
38,373		Air Liquide	4,165,551	1.3
64,127		Alstom	1,868,296	0.6
158,628	@	Cie Generale de Geophysique-Veritas	3,468,387	1.0
46,047		Schneider Electric S.A.	2,462,341	0.7
216,131		Suez Environnement S.A.	2,350,331	0.7
93,276		Vinci S.A.	3,745,560	1.1
,			18,060,466	5.4
		Germany: 8.1%	-,,	
61,183		BASF AG	4,293,809	1.3
152,335		Deutsche Post AG	2,525,292	0.7
406,989		Deutsche Telekom AG	4,015,407	1.2
247,383		E.ON AG	4,537,000	1.3
98,840		GEA Group AG	2,526,696	0.8
75,957		Siemens AG	6,271,234	1.9
188,384		ThyssenKrupp AG	3,124,197	0.9
100,301		Thyssell Rupp 710	27,293,635	8.1
		Hong Kong: 1.9%	27,250,000	0.1
127,500		China Mobile Ltd. ADR	6,468,075	1.9
127,300		India: 0.4%	0,400,072	1.,
376,060		Bharat Heavy Electricals Ltd.	1,414,519	0.4
370,000		Ireland: 1.2%	1,414,517	0.4
233,167	@	CRH PLC	3,945,823	1.2
233,107	w .	Israel: 0.9%	3,943,023	1,2
299,334		Israel Chemicals Ltd.	3,092,148	0.9
299,334			3,092,140	0.9
1 520 221		Italy: 3.2%	4 264 610	1.2
1,530,321		Enel S.p.A.	4,364,619	1.3
388,225		Fiat Industrial SpA	3,922,314	1.2
163,841		Prysmian S.p.A.	2,324,265	0.7
		Ianan, 2.76/	10,611,198	3.2
020 000		Japan: 3.7%	4 706 969	1 4
828,000		Hitachi Ltd.	4,726,863	1.4
192,000		Komatsu Ltd.	4,583,006	1.3
419,000		Mitsubishi Electric Corp.	3,284,276	1.0

Luxembourg: 2.3% ArcelorMittal Millicom International Cellular SA Netherlands: 3.0%	3,514,170 4,285,450 7,799,620	1.0 1.3
Millicom International Cellular SA	4,285,450	1.3
Netherlands: 3.0%	7,799,620	
Netherlands: 3.0%		2.3
Chicago Bridge & Iron Co. NV	3,378,360	1.0
European Aeronautic Defence and S	pace Co. NV 6,737,458	2.0
	10,115,818	3.0
Russia: 1.4%	, ,	
Mobile Telesystems OJSC ADR	4,792,320	1.4
South Korea: 1.1%	, ,	
POSCO ADR	3,761,736	1.1
Switzerland: 1.3%	, ,	
ABB Ltd. ADR	4,417,314	1.3
United Kingdom: 9.8%	, ,	
9	3,453,393	1.0
BHP Billiton PLC	6,716,746	2.0
Cookson Group PLC	2,845,622	0.9
	5,121,607	1.5
	8,075,458	2.4
Weir Group PLC	2,447,439	0.7
Xstrata PLC	4,423,677	1.3
	33,083,942	9.8
United States: 46.9%	, ,	
Acuity Brands, Inc.	5,668,000	1.7
	6,895,694	2.0
	6,259,162	1.9
Cummins, Inc.	6,631,380	2.0
Deere & Co.	4,594,714	1.4
Dover Corp.	7,109,592	2.1
EI Du Pont de Nemours & Co.	5,791,200	1.7
Emerson Electric Co.	4,204,623	1.3
Fluor Corp.	7,074,192	2.1
	7,431,561	2.2
		2.9
ì	Russia: 1.4% Mobile Telesystems OJSC ADR South Korea: 1.1% POSCO ADR Switzerland: 1.3% ABB Ltd. ADR United Kingdom: 9.8% Anglo American PLC BHP Billiton PLC Cookson Group PLC Rio Tinto PLC Vodafone Group PLC Weir Group PLC Xstrata PLC United States: 46.9% Acuity Brands, Inc. Caterpillar, Inc. CenterPoint Energy, Inc. Cummins, Inc. Deere & Co. Dover Corp. EI Du Pont de Nemours & Co.	Russia: 1.4% Mobile Telesystems OJSC ADR South Korea: 1.1% POSCO ADR Switzerland: 1.3% ABB Ltd. ADR United Kingdom: 9.8% Anglo American PLC Cookson Group PLC Rio Tinto PLC Vodafone Group PLC Statta PLC Vodafone Group PLC Cookson Group PLC Vodafone Group PLC Vodafone Group PLC Vodafone Group PLC South Vodafone Group PLC Vodafone Group PLC South Vodafone Group PLC Vodafone Group PLC Vodafone Group PLC Vodafone Group PLC South Vodafone Group PLC South Vodafone Group PLC Vodafone Group PLC South Vodafone Group PLC Vodafone Group PLC South Vodafone Group PLC Vodafone Group PLC Vodafone Group PLC South Vodafone Group PLC Vodafone Group PLC Vodafone Group PLC South Vodafone Group PLC Vodafone Gr

ING Infrastructure, Industrials and Materials Fund

PORTFOLIO OF INVESTMENTS as of May 31, 2012 (Unaudited) (continued)

Shares					Value	Percentage of Net Assets
		United Sta	ites: (continued)			
61,200		Lockheed 1	Martin Corp.	\$	5,067,360	1.5
68,500		Monsanto	Co.		5,288,200	1.6
143,400		National O	ilwell Varco, Inc.		9,571,950	2.8
48,900		Pall Corp.			2,721,774	0.8
142,300		Patterson-U	JTI Energy, Inc.		2,151,576	0.6
170,400		Peabody E	nergy Corp.		3,980,544	1.2
165,600		Republic S	ervices, Inc.		4,365,216	1.3
56,500		Roper Indu	stries, Inc.		5,718,930	1.7
97,800		Schlumber	ger Ltd.		6,185,850	1.8
75,900			national Group, Inc.		2,482,689	0.7
196,800		TECO Ene	ergy, Inc.		3,424,320	1.0
49,100	@	TransDigm	Group, Inc.		6,039,300	1.8
144,500		Trinity Ind	ustries, Inc.		3,569,150	1.1
91,400		UGI Corp.			2,621,352	0.8
97,100		Union Paci	fic Corp.		10,816,940	3.2
89,600		United Par	cel Service, Inc Class B		6,714,624	2.0
62,600	@	United Rer	ntals, Inc.		2,162,830	0.6
70,600	@	WABCO I	Holdings, Inc.		3,654,256	1.1
			_		157,970,875	46.9
		Total Com	mon Stock			
		(Cost \$340	,601,260)		331,887,567	98.5
RIGHTS: 0.1%						
		France: 0.				
38,373	@	Air Liquid	e SA		415,032	0.1
		Italy: %				
388,225	@	Fiat S.p.A				
388,225	@	Fiat S.p.A				
		Total Righ (Cost \$)	ts		415,032	0.1
			-Term Investments		415,052	0.1
		(Cost \$340			332,302,599	98.6
SHORT-TERM INVI	CTMFN		,001,200)		332,302,377	70.0
SHORT-TERM INVI	201111211		ınds: 1.5%			
5,023,000			Liquidity Funds,			
3,023,000			, Institutional Class			
		(Cost \$5,02			5,023,000	1.5
			t-Term Investments		3,023,000	1.5
		(Cost \$5,02			5,023,000	1.5
			stments in Securities		3,023,000	1.3
		(Cost \$345		\$	337,325,599	100.1
			in Excess of Other Assets	Ф	(333,007)	(0.1)
				¢		
		Net Assets		\$	336,992,592	100.0
	@ ADR	Non-income producing security American Depositary Receipt Cost for federal income tax purp Net unrealized depreciation cons				
		Gross Unrealized Appreciation		\$	42,332,784	

Gross Unrealized Depreciation (52,020,185)
Net Unrealized Depreciation \$ (9,687,401)

Sector Diversification	Percentage of Net Assets
Consumer Discretionary	1.1%
Energy	7.4
Industrials	51.6
Information Technology	1.4
Materials	18.6
Rights	0.1
Telecommunication Services	1.3
Telecommunications	8.1
Utilities	9.0
Short-Term Investments	1.5
Liabilities in Excess of Other Assets	(0.1)
Net Assets	100.0%

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PORTFOLIO OF INVESTMENTS as of May 31, 2012 (Unaudited) (continued)

Fair Value Measurements

The following is a summary of the fair valuations according to the inputs used as of May 31, 2012 in valuing the assets and liabilities:

	in	Quoted Prices Active Markets for Identical Investments (Level 1)		Significant Other Observable Inputs # (Level 2)		Significant Unobservable Inputs (Level 3)		Fair Value at 5/31/2012
Asset Table								
Investments, at value								
Common Stock	Φ.		Φ.	2 202 225	Φ.		Φ.	2 202 225
Australia	\$	10 717 070	\$	2,282,325	\$		\$	2,282,325
Brazil		10,512,859						10,512,859
Canada		1,945,537						1,945,537
Chile		2,908,520						2,908,520
China		4,259,400		1,919,724				6,179,124
Finland				2,637,568				2,637,568
France				18,060,466				18,060,466
Germany				27,293,635				27,293,635
Hong Kong		6,468,075						6,468,075
India				1,414,519				1,414,519
Ireland				3,945,823				3,945,823
Israel				3,092,148				3,092,148
Italy				10,611,198				10,611,198
Japan				12,594,145				12,594,145
Luxembourg		7,799,620						7,799,620
Netherlands		3,378,360		6,737,458				10,115,818
Russia		4,792,320						4,792,320
South Korea		3,761,736						3,761,736
Switzerland		4,417,314						4,417,314
United Kingdom				33,083,942				33,083,942
United States		157,970,875						157,970,875
Total Common Stock		208,214,616		123,672,951				331,887,567
Rights				415,032				415,032
Short-Term Investments		5,023,000						5,023,000
Total Investments, at value	\$	213,237,616	\$	124,087,983	\$		\$	337,325,599
Liabilities Table								
Other Financial Instruments+								
Written Options	\$		\$		\$	(1,594,155)	\$	(1,594,155)
Total Liabilities	\$		\$		\$	(1,594,155)	\$	(1,594,155)

⁺ Other Financial Instruments are derivatives not reflected in the Portfolio of Investments and may include open forward foreign currency contracts, equity forwards, futures, swaps, and written options. Forward foreign currency contracts, equity forwards and futures are valued at the unrealized gain (loss) on the instrument. Swaps and written options are valued at the fair value of the instrument.

[#] The earlier close of the foreign markets gives rise to the possibility that significant events, including broad market moves, may have occurred in the interim and may materially affect the value of those securities. To account for this, the Fund may frequently value many of its foreign equity securities using fair value prices based on third party vendor modeling tools to the extent available.

Accordingly, a significant portion of the Fund s investments are categorized as Level 2 investments.

There were no significant transfers between Level 1 and 2 during the period ended May 31, 2012.

Transfers in or out of Level 3 represent either the beginning value (for transfers in), or the ending value (for transfers out) of any security or derivative instrument where a change in the pricing level occurred from the beginning to the end of the period. Transfers are recognized at the end of the reporting period.

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PORTFOLIO OF INVESTMENTS as of May 31, 2012 (Unaudited) (continued)

]	Beginning Balance on 2/29/2012	Purchases	Sales	Accrued Discounts/ (Premiums)	Total Realized Gain (Loss)	Un App	Total realized preciation preciation)	Transfers into Level 3	Transfers Out of Level 3	Ending Balance on 5/31/2012
Liabilities Table at value Written options, at fair value Total liabilities	\$	(2,518,519) (2,518,519)	\$ (3,288,773) (3,288,773)	\$ 1,896,970 1,896,970	\$	\$ 1,359,225 1,359,225	\$	956,942 956,942	\$	\$	\$ (1,594,155) (1,594,155)

As of May 31, 2012, total change in unrealized gain (loss) on Level 3 securities still held at period end and included in the change in net assets was \$1,694,618.

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PORTFOLIO OF INVESTMENTS as of May 31, 2012 (Unaudited) (continued)

ING Infrastructure, Industrials and Materials Fund Written OTC Options on May 31, 2012:

# of Contracts Options on Securities			Exercise Price	Expiration Date		Premiums Received	Fair Value
220,329	Goldman Sachs & Co. Credit Suisse First	Call on Custom Basket of Equity Securities Call on Custom Basket of	100.000 EUR	06/15/12	\$	681,235	\$ (253,340)
98,370	Boston	Equity Securities Call on Custom Basket of	100.000 GPB	06/15/12		529,449	(403,908)
38,412,000	Citigroup, Inc. JPMorgan Chase &	Equity Securities Call on Custom Basket of	100.000 USD	06/13/12		1,060,171	(399,254)
384,120	Co.	Equity Securities	100.000 USD Total	06/13/12 Written OTC Option	s \$	1,017,918 3,288,773	\$ (537,653) (1,594,155)

Item 2. Controls and Procedures.

(a) Based on our evaluation conducted within 90 days of the filing date, hereof, the design and operation of the registrant s disclosure controls and procedures are effective to ensure that material information relating to the

registrant is made known to the certifying officers by others within the appropriate entities, particularly during the period in which Forms N-Q are being prepared, and the registrant s disclosure controls and procedures allow timely preparation and review of the information for the registrant s Form N-Q and the officer certifications of such Form

N-Q.

(b) There were no significant changes in the registrant s internal controls over financial reporting that occurred during the registrant s last fiscal quarter of the period covered by this report that has materially affected, or is reasonably likely

to materially affect, the registrant s internal control over financial reporting.

Item 3. Exhibits.

A separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2 under the Act (17 CFR 270.30a-2) is attached hereto as EX-99.CERT.

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.

(Registrant): ING Infrastructure, Industrials and Materials Fund

/s/ Shaun P. Mathews By Shaun P. Mathews President and Chief Executive Officer

Date: July 27, 2012

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.

/s/ Shaun P. Mathews Ву Shaun P. Mathews President and Chief Executive Officer

Date: July 27, 2012

/s/ Todd Modic Todd Modic

Senior Vice President and Chief Financial Officer

Date: July 27, 2012