



Excluded Investments

This document reflects the currently applicable exclusions under each exclusion category applied to Danica's pension products (Danica Balance, Danica Tidspension, Danica Traditionel and funds in Danica Link managed by Danica).

This means that companies/issuers mentioned on each of the lists are non-investable for those products. Due to market conditions and client interests, some listed companies/countries may still be present in portfolios but are targeted for divestment. While we strive to update the exclusion lists to always reflect the current uninvestable universe per the different categories, there may be situations where the published lists are not fully reflecting applicable exclusions as a result of e.g. operational implementation and market abuse requirements.

Introduction

Investment exclusions form an integral part of Danica's approach to responsible investments. They serve to safeguard our customers' assets and enhance the risk-adjusted return on our investments, but also to reduce our investments' negative impact on society. Danica's pension products apply exclusions on sustainability risks and exclusions that consider environmental, social and governance related aspects. The following exclusion categories are applied to pension products:

- Sustainability Risks
- Enhanced Sustainability Standards
- Peat Fired Power Generation
- Tar Sands
- Thermal Coal
- Controversial weapons
- Tobacco
- Fossil Fuel Transition Laggards

The screening of companies and other issues covered by exclusions under the Exclusion Instruction is carried out at a bi-annual basis resulting in updates to the exclusion lists under each category. For screening we primarily use external data sources, which are continuously assessed by Danske Bank's Responsible Investment team. Despite thorough due diligence and efforts to ensure data accuracy, completeness, and reliability, there may however still be a margin of error associated to the screening due to data inconsistencies.

The exclusion lists cover direct investments in instruments (e.g. equity, bonds) issued by the respective companies and issues, this also includes sustainability labelled bonds issued by excluded issuers. Affiliation to an excluded issuer does in principle not trigger an exclusion of other issuers. Sovereign based exclusions can also capture other related issuers such as state-owned enterprises. The exclusion lists do not cover indirect exposures to the issuers gained via the use of derivatives. Specific investments covered by thermal coal exclusions may be exempted from exclusions in accordance with the principles set out in the Exclusion Instruction. You will find an overview on these exemptions under the relevant category. Also, the Responsible Investment Committee may in extraordinary cases decide to allow for an investment product to stay invested in an investment otherwise excluded by the product in accordance with the Exclusion Instruction and principles set out on de minimis exposures. Further information on the exclusions mentioned in this document is available through the descriptions of the relevant categories, activities, criteria, scope and thresholds in the [Danica's Exclusion Instruction on this website](#).

Sustainability Risk Exclusions

Danica applies sustainability risk exclusions as part of our commitments to consider and integrate sustainability risk considerations in our investment management processes. The sustainability risk exclusions capture involvement in activities deemed to expose significant risks to investments as based on an own proprietary model.

Sustainability Risk		
Company		
Cineplex Inc	Trada Alam Minera Tbk PT	Delek Drilling LP
Opera Ltd	Petroteq Energy Inc	Dish Network Corporation
Camping World Holdings, Inc.	Very Good Tour Co Ltd	Insys Therapeutics, Inc.
Liberty TripAdvisor Holdings, Inc.	Multi Commodity Exchange of India Ltd	Shanghai Jinqiao Export Processing Zone Development Co Ltd
New Residential Investment Corp	TRG Pakistan	Rgc Resources, Inc.
Mallinckrodt PLC	Bluestone Resources Inc/Canada	Samsung Pharmaceutical Co Ltd
China Express Airlines Co Ltd	Indian Bank	Bristow Group Inc.
Nemaska Lithium Inc	Td Ameritrade Holding Corporation	N L Industries, Inc.
Total excluded companies		24

Enhanced Sustainability Standards

The enhanced sustainability standards screening is Danske Bank Group's proprietary screening model that supports the exclusion of certain companies/issuers engaged in certain activities and conduct deemed harmful to society. The exclusions apply fully to all investment products and pension products manufactured within Danske Bank Group disclosing this to investors.

The enhanced screening is a multidimensional process assessing both environmental materiality as well as social materiality in order to promote adherence to UN Global Compact, principles, OECD Guidelines for Multinational Enterprises, UN Guiding Principles on Business and Human Rights and ILO conventions and other relevant environmental or social safeguards by its exclusions. The screening also seeks to capture certain other activities indicating weak sustainability practices (in particular) by addressing controversies and Danske Bank Position Statements as well as weak governance practices governance practices are addressed through the good governance test outlined below.

The Enhanced Sustainability Standards screening process currently consists of three sub-processes:

- 1) [Incident & Event-based Screening](#)
- 2) [Good Governance](#)
- 3) [Country Assessment](#)

1. Incident & Event-based Screening

Incident & Event Based Screening		
COMPANY		
Abrau-Durso PJSC	IOI Investment Labuan Bhd.	Russia Federation
AcBel Polytech, Inc.	Irkutskenergo PJSC	Russia Federation
Acron PJSC	Izhorskiye Zavody PJSC	Russia Federation
Adani Abbot Point Terminal Pty Ltd.	Jastrzebska Spolka Weglowa SA	Russia Federation
Adani Enterprises	JBS Finance II Ltd.	Russia Federation
Adani Green Energy	JBS SA	Russia Federation
Adani Ports & Special Economic Zones	JBS USA Finance, Inc.	Russia Federation
Aeroflot PJSC	JBS USA LLC	Russia Federation
Aganftegazgeologia OAO	JG Summit Holdings, Inc.	Russia Federation
Agrofirma Mcenskaya OAO	Jiangsu Guotai International Group Co., Ltd.	Russia Federation
Alfa-Bank	Jiangxi Copper Co Ltd	Russia Federation
Almaz-Antei PAO	Jinko Solar Co	Russia Federation
Alrosa PJSC	Jointown Pharmaceutical Group Co., Ltd.	Russia Federation
ALROSA-Nyurba PJSC	JSC Kalashnikov	Russia Federation
Aphria	Kalugaputmash	Russia Federation
Archer-Daniels Midland Co.	Kaluzsky Plant of Automobile Electrical Equipment OAO	Russia Federation
Arktikftegazstroy OAO	Kamaz PJSC	Russia Federation
Aselsan Elektronik Sanayi ve Ticaret AS	Kamchatskenergo PJSC	Russia Federation
Atomic Energy Power Corp.	Khanty-Mansiyskdorstroy OAO	Russia Federation
Avangard Bank PJSC	KIBO Energy PLC	Russia Federation
Avary Holding (Shenzhen) Co., Ltd.	Komi Energosbytovaya Co OAO	Russia Federation
AviChina Industry & Technology	Komitex JSC	Russia Federation
Aziyo Biologics, Inc.	Korporatsiya Takticheskoe Raketnoe Vooruzhenie OAO	Russia Federation
Bajaj Hindustan Sugar Ltd.	Korporatsiya Takticheskoe Raketnoe Vooruzhenie OAO	Russia Federation
Bamtonnelstroy	Korshynov Mining Plant PJSC	Russia Federation
Bank Otkritie Financial Corp OJSC Via OFCB Capital PLC	Kovrovskiy Mekhanicheskii Zavod OAO	Russia Federation
Bank Otkritie Financial Corp PJSC/Tochka	Krasfarma OAO	Russia Federation
Bank Rossiya OAO	Krasnoyarskenergosbyt PJSC	Russia Federation
Bank St Petersburg PJSC	Krasnoyarsknefteproduct	Russia Federation
Bank ZENIT PJSC	Krasnyj Otyabr PJSC	Russia Federation
Barrick (PD) Australia Finance Pty Ltd.	Kriogenmash PAO	Russia Federation
Barrick Gold	KTK Group Co., Ltd.	Russian Agricultural Bank
Barrick Gold Finance Co.	Kuban Trunk Grid	Russian Agricultural Bank OJSC Via RSHB Capital SA
Barrick North America Finance LLC	KuibyshevAzot PJSC	Russian Aquaculture PJSC
Barrick TZ Ltd.	Kurganskaya Generiruyushchaya Kompaniya PAO	Russian Direct Investment Fund
Bashneft PJSC	Kuzbasskaya Toplivnaya Co JSC	Russian Railways JSC

Incident & Event Based Screening		
COMPANY		
Beijing Tong Ren Tang Chinese Medicine Co., Ltd.	Leidos, Inc.	RussNefit PJSC
Beijing Tongrentang Co., Ltd.	Lengazspecstroy OAO	Ryazan Energy Retail Co PJSC
Belon OJSC	Lens Technology Co Ltd	SAIC Motor Corp. Ltd
Belspetsvneshtekhnika	Lenzoloto PJSC	Samaraenergo PJSC
Beluga Group PJSC	Li Ning Company Limited	Samarco Mineracao SA
Bharat Electronics Limited	LSR Group PJSC	Samolet Group
Bharat Heavy Electricals Ltd	LUKOIL PJSC	Santos
Black Sea Trade & Development Bank	Luthai Textile Co Ltd	Saratovskiy Neftepererabatyvayuschiy Zavod PJSC
BRF SA	Luxshare Precision Industry Co Ltd	Sasol Financing International Plc
Bunge Alimentos SA	M.Video PJSC	Sasol Financing USA LLC
Bunge Brasil SA	Magadanenergo PJSC	Sasol Ltd
Bunge Finance Europe BV	Magnit PJSC	Sberbank of Russia PJSC
Bunge Ltd	Magnitogorsk Iron & Steel Works PJSC	Sberbank of Russia Via SB Capital SA
Bunge Ltd. Finance Corp.	Marathon Petroleum Corp	Segezha Group PJSC
Bunge NA Finance LP	Mechel PJSC	Seligdar PJSC
Cargill	MegaFon PJSC	Severalmaz PAO
Center for Cargo Container Traffic TransContainer PJSC	Metafrax OAO	Severstal PAO
Centerenergyholding JSC	Metallurgical Corporation of China	SFI PJSC
Centrais Eletricas Brasileiras SA (Eletrobras)	Mikron JSC	Shein
Central Bank of the Russian Federation/The	Minerva SA	Sinotruk Hong Kong Ltd.
Central Telegraph PJSC	MMC Norilsk Nickel PJSC	Sistema PJSCFC
Cetelem Bank	Mobile TeleSystems PJSC	SJVN Lmt.
Changhong Meiling Co., Ltd.	Moscow City Telephone Network PJSC	SK Holdings Co
Chelyabinsk Forge & Press Plant PJSC	Moscow Exchange MICEX-RTS PJSC	SK Innovation Co Ltd
Chelyabinsk Metallurgical Plant PJSC	Mosenergo PJSC	Slavneft-Megionneftegaz PPO OAO
Chelyabinsk Pipe Plant PJSC	Mostotrest PJSC	Slavneft-Megionneftegazgeologia OAO
Cherkizovo Group PJSC	Muhibbah Engineering (M) Bhd.	Slavneft-Yaroslavnefteorgsintez OJSC
China Coal Energy Co Ltd	Nauchno-Proizvodstvennoe Obedinenie S plav OAO	SLC Agricola SA
China National Nuclear Corp.	NC Rosneft- Kubannefteproduct PJSC	Sokolskiy Pulp & Paper
China National Petroleum Corporation (CNPC)	Nitel OAO	Solikamsk Magnesium Plant OJSC
China Shipbuilding Industry Co., Ltd.	Nizhegorodoblaz OAO	Sollers PJSC
China Traditional Chinese Medicine Holdings Co. Ltd.	Nizhnekamskneftekhim PJSC	South32
Chrezvichainaia strahovaia co CHSK OAO	Novatek PJSC	Southern Copper
CNOOC Canada, Inc.	Novikombank AO	South-Kuzbass GRES OAO
CNOOC Curtis Funding No. 1 Pty Ltd.	Novolipetsk Steel PJSC	Sovcombank PJSC
CNOOC Finance (2003) Ltd.	Novoroslesexport OAO	Sovcomflot PJSC
CNOOC Finance (2011) Ltd.	Novorossiysk Commercial Sea Port PJSC	SPB Exchange PJSC
CNOOC Finance (2012) Ltd.	Novorossiyskiy Kombinat Khleboproduktov PAO	Sredneuralskiy Medeplavilnyj Zavod OAO
CNOOC Finance (2013) Ltd.	NTPC Ltd	Surgutneftegas PJSC
CNOOC Finance (2014) ULC	Obnyeftegazgeologia OJSC	Sysymanzoloto OAO
Cnooc Finance (2015) Australia Pty Ltd.	OCP SA	Ta Ann Holdings Bhd
CNOOC Finance (2015) U.S.A. LLC	OFILM Group Co., Ltd.	Taganrog Boiler-Making Works Krasny kotelshchik PJSC
CNOOC Ltd	OGK-2 PJSC	Tatneft PJSC
Commercial Sea Port of Vladivostok PJSC	Oil & Natural Gas Corp	Tattelecom PJSC
Companhia Energetica De Minas Gerais (CEMIG)	ONGC Videsh Ltd.	TBEA

Incident & Event Based Screening		
COMPANY		
Conoco Funding Co.	Oracle Power PLC	TCS Group Holding PLC
ConocoPhillips	Organichesky Sintez PJSC	Texhong Textile Group Limited
ConocoPhillips Australia Funding Co.	Otkritie Bank OJSC	TGC-1 PJSC
ConocoPhillips Canada Funding Co. I	Ozon Holdings PLC	TGC-2 PJSC
ConocoPhillips Canada Funding Co. II	Permenergosbyt PJSC	TGK-14 PJSC
ConocoPhillips Co.	PetroChina Company Limited	TNS energo Nizhny Novgorod PJSC
CoreCivic Corp	Petroleum Trading Lao Public Co	TNS energo Rostov-on-Don PJSC
Credit Bank of Moscow PJSC	Petropavlovsk PLC	TNS Energo Voronezh PJSC
Dalmoreprodukt	Pharmacy Chain 36.6 PJSC	TNS energo Yarosavl PJSC
Daqo New Energy Corp.	Phillips 66	TNS Energos PJSC
DTE Energy Co	PhosAgro PJSC	Tong Ren Tang Technologies Co., Ltd.
Dushanzi Petrochemical Company	Pigment OJSC	Tongling Nonferrous Metals Group
Elbit Systems Ltd.	PIK Group PJSC	Toyo Ventures Holdings Bhd.
Elektrostal OAO	PJSC SPC Energia	TransFin-M PAO
ElSewedy Electric Co	Polymetal International Plc	Transkapitalbank
EN+ Group International PJSC	Polyus PJSC	Trina Solar
Enbridge Inc	POSCO	Tulachermet PAO
ENEL RUSSIA PJSC	Posco International Corp	Tulamashzavod
Energospecmontazh	Positive Group PJSC	Tulanefteprodukt PJSC
Energy Transfer Equity LP	Power Construction Corporation of China	Turquoise Hill Resources Ltd.
Energy Transfer Operating LP	Press Metal Aluminium Holdings Berhad	Tutaev Motor Plant OAO
European Eltech PJSC	Press Metal Bhd.	Tverskoy Vagonostroitel'ny Zavod
Evraz Plc	Priargunsky Industrial Mining and Chemical Union OAO	Uchalinskiy Gorno-Obogatitel'ny Kombinat OAO
Eximbank of Russia	Priisk Dambuki OAO	Udmurtneft OAO
Exxon Mobil Corporation	Primorie Bank PJSC	Ufaleynickel PJSC
Far-Eastern Energy Co PJSC	Proizvodstvennoye Ob Yedineniye Severnoye Mashinostroitel'noye Predpriyatiye AO	Ugol'naya Kompaniya Yuzhnyy Kuzbass PAO
Far-Eastern Shipping Co PLC	Promsvyazbank	United Aircraft Corporation
Federal Grid Co Unified Energy System PJSC	PT Astra Agro Lestari Tbk	United Co RUSAL International PJSC
First Pacific Company Limited	PT Astra International Tbk	United Credit Systems PJSC
Formosa Chemicals & Fibre Corp.	PT Bakrie & Brothers Tbk	United Shipbuilding Corporation
Formosa Taffeta Co., Ltd.	PT Barito Pacific Tbk	United Wagon Co PJSC
Freeport McMoRan	PT Indofood Sukses Makmur Tbk	Ural Bank for Reconstruction and Development
Gaiskiy GOK OAO	PT Perusahaan Perkebunan London Sumatra Indonesia Tbk	Uralelektromed OAO
Gazkon PJSC	PT Salim Ivomas Pratama Tbk	Uralkali PJSC
Gazprom Gazoraspredelenie Syktyvkar AO	PT Sawit Sumbermas Sarana Tbk	UralSib Bank PJSC
Gazprom Neft PJSC	Quadra Power Generation PJSC	Uralskaya Kuznitsa OAO
Gazprom PJSC	Raspadskaya OAO	Uralvagonzavod
Gazprom PJSC Via Gaz Capital SA	Red Rock Resorts, Inc.	UTair Aviation PJSC
Gazprom PJSC via Gaz Finance PLC	Renaissance Insurance Group JSC	Varyeganneftegaz PJSC
Gazprombank	Rio Zim Ltd.	Vedanta Limited
Gaz-service PJSC	Rosgosstrakh PJSC	Vedanta Resources Finance II Plc
GAZ-Tek PJSC	Rosneft Oil Co PJSC	Vedanta Resources Jersey Ltd.
GCL New Energy Holdings Limited	Rosseti Centre PJSC	Vedanta Resources Ltd
GCL Technology	Rosseti Kuban PJSC	Victory City International Holdings Ltd.
GCM Resources plc	Rosseti Lenenergo PJSC	VK Co Ltd
GenBank	Rosseti Moscow Region PJSC	Vnesheconombank Via VEB Finance PLC
Genting Bhd	Rosseti North Caucasus PJSC	Volcan Cia Minera SAA
Genting Plantations Berhad	ROSSETI PJSC	VSMPO-AVISMA Corp PJSC
GEO Group	Rosseti Siberia PJSC	VTB Bank PJSC
Geotech Seismic Services PJSC	Rosseti South PJSC	Vyborg Shipyard PAO
Giprospetsgaz OAO	Rosseti Volga PJSC	Wilmar International Ltd
Glencore	Rostec	Woodside Energy
Golden Agri-Resources Ltd	Rostec State Corp	World Trade Center Moscow PJSC

Incident & Event Based Screening		
COMPANY		
Grand Pharmaceutical Group Ltd.	Rostelecom PJSC	WTK Holdings Bhd
Grupo Mexico SAB de CV	Rostovoblgaz PJSC	X5 Retail Group NV
Gruppa kompaniy kommunalnoy sfery PAO	RusHydro PJSC	Xinjiang Nonferrous Metal Industry Group Co Ltd
Gtlk Europe Capital DAC	Rusolovo PJSC	Xinjiang Zhongthai Chemical
Halcyon Agri Corp Ltd	Ruspolimet OJSC	Yakutsk Fuel-Energy Co PJSC
HALS-Development PJSC	Russia Federation	Yakutskenergo PJSC
Haoxiangni Health Food Co., Ltd.	Russia Federation	YAmaltransstroj PJSC
Harmony Gold Mining Co Ltd	Russia Federation	Youngor Group Co., Ltd.
HIKVision	Russia Federation	Yunnan Baiyao Group Co., Ltd.
Honeys Holding	Russia Federation	Yuzhno-Ural'skij nikelevyj kombinat PJSC
Hoshine Silicon Industry Co., Ltd.	Russia Federation	Yuzhural-Asko PJSC
Hotel Kosmos OAO	Russia Federation	Zavod Imeni VA Degtyareva OAO
Huaihe Energy (Group) Co., Ltd.	Russia Federation	Zhen Ding Technology Holding Ltd.
Human Stem Cells Institute PJSC	Russia Federation	Zijin International Capital Co., Ltd.
IDGC of Centre and Volga Region PJSC	Russia Federation	Zijin International Finance Co., Ltd.
IDGC of the North-West PJSC	Russia Federation	Zijin Mining
IDGC of Urals JSC	Russia Federation	ZIL PJSC
Imperial Oil Ltd	Russia Federation	ZTE Corp
Indofood Agri Resources Ltd.	Russia Federation	Tingo Group
Ingosstrakh Insurance Co	Russia Federation	JBS Finance Luxembourg SARL
INGRAD OOO	Russia Federation	JBS NV
Inner Mongolia Baotou Steel Union Co	Russia Federation	BARRICK MINING CORP
Inter RAO UES PJSC	Russia Federation	ZHAOJIN MINING INDUSTRY LTD H
INVEST-DEVELOPMENT PJSC	Russia Federation	
IOI Corporation Berhad	Russia Federation	
Total excluded companies		475

2: Good Governance Exclusions

Good Governance Company		
Energiekontor AG	Evertz Technologies Limited	Datang International Power Generation Co., Ltd.
HANMI Semiconductor Co., Ltd.	Xinyi Glass Holdings Ltd.	Ferrotec Corp.
Fujimi, Inc.	Everbright Securities Company Limited	ARIAKE JAPAN Co., Ltd.
Danieli & C. Officine Meccaniche SpA	Toei Animation Co., Ltd.	Active Biotech AB
CHUDENKO CORP.	ABC-MART, INC.	Monarch Casino & Resort, Inc.
KYB Corp.	New China Life Insurance Company Ltd.	
HPSP Co., Ltd.	DONG SUH Companies Inc.	
NB Bancorp, Inc.	Rorze Corp.	
Ningbo Deye Technology Co., Ltd.	Urban One, Inc.	
DoubleUGames Co., Ltd.	Traction AB	
Total excluded companies		25

3: Country Exclusions

Country Exclusions Country		
Afghanistan	Eritrea	Russia
Bangladesh	Haiti	Somalia
Belarus	Iran	South Sudan
Burundi	Liberia	Sudan
Central African Republic	Libya	Syria
Chad	Madagascar	Vietnam
Cuba	Myanmar	Yemen
DR Congo	Niger	
Equatorial Guinea	North Korea	
Total Excluded Countries		25

Peat-fired Power Generation

Peat is organic fuel consisting of spongy material formed by the partial decomposition of organic matter, primarily plant material, in wetlands. Criteria for the exclusions are defined in the Exclusion Instruction.

Peat-fired power generation		
Company		
Neova Oy		
Total excluded companies		1

Tar Sands

Tar sands, also known as oil sands, heavy oil, crude bitumen, or more technically bituminous sands, are a type of unconventional petroleum deposit. Tar sands are either loose sands or partially consolidated sandstone containing a naturally occurring mixture of sand, clay, and water, saturated with a dense and extremely viscous form of petroleum technically referred to as bitumen (or colloquially as tar due to its superficially similar appearance). Criteria for the exclusions are defined in the Exclusion Instruction.

Tar Sands		
Company		
Cenovus Energy Inc.	Hutchison Whampoa Finance (14) Ltd.	Hutchison Whampoa Finance (05) Ltd.
CK Hutchison Europe Finance (21) Ltd.	Hutchison Whampoa International (14) Ltd.	MEG Energy Corp.
Strathcona Resources Ltd.	North West Redwater Partnership, Inc.	Hutchison Whampoa Finance (03/13) Ltd.
CK Hutchison International (21) Ltd.	Hutchison Whampoa Europe Finance (13) Ltd.	PC Financial Partnership
CK Hutchison International (20) Ltd.	Hutchison Whampoa International 12 II Ltd.	Hutchison Whampoa International (03/33) Ltd.
CK Hutchison International (19) (II) Ltd.	Hutchison Whampoa Europe Finance (12) Ltd.	Baytex Energy Corp.
CK Hutchison Group Telecom Finance SA	Hutchison Whampoa International (12) Ltd.	Sonoro Energy Ltd.
Baytex Energy (LP) Ltd.	Hutchison Whampoa International (11) Ltd.	Strata Power Corp.
CK Hutchison International (19) Ltd.	Harvest Operations Corp.	Hutchison Whampoa Finance (CI) Ltd.
CK Hutchison Capital Securities (Europe) Ltd.	Hutchison Whampoa International (10) Ltd.	Cerro Negro Finance Ltd.
CK Hutchison Europe Finance (18) Ltd.	Sunshine Oilsands Ltd.	Freehold Royalties Ltd.
CK Hutchison International (17) II Ltd.	Hutchison Whampoa Finance (09) Ltd.	Ecopetrol SA
CK Hutchison Capital Securities (17) Ltd.	Hutchison Whampoa International (09/19) Ltd.	Petroleos de Venezuela SA
CK Hutchison International (17) Ltd.	Hutchison Whampoa International (09/16) Ltd.	Pengrowth Energy Corporation
CK Hutchison Finance (16) (II) Ltd.	Hutchison Whampoa International (09) Ltd.	Suncor Energy Inc.
CK Hutchison International (16) Ltd.	Athabasca Oil Corporation	Canadian Natural Resources Limited
CK Hutchison Finance (16) Ltd.	Hutchison Whampoa Finance UK Plc	Imperial Oil Limited
CK Hutchison Holdings Limited	Hutchison Whampoa Finance (06) Ltd.	
Total excluded companies		53

Thermal Coal

Thermal coal designates coal used by power plants and industrial steam boilers to produce electricity or process steam. Criteria for the exclusions are defined in the Exclusion Instruction.

Thermal Coal COMPANY		
RWE Finance US LLC	Shanxi Lu'An Environmental Energy Development Co., Ltd.	Wisconsin Power & Light Co.
EPH Financing International as	Pingdingshan Tianan Coal Mining Co., Ltd.	Wisconsin Electric Power Company
NorthWestern Energy Group, Inc.	Jinneng Holding Shanxi Coal Industry Co., Ltd.	Mississippi Power Co.
Talen Energy Corporation	Rhino Resource Partners LP	Georgia Power Co.
PT Petrindo Jaya Kreasi Tbk	JSW Energy Limited	Alabama Power Company
Stronghold Digital Mining, Inc.	The Second Generation Co. of the Wholesale Power Market PJSC	Sierra Pacific Power Co.
Can2 Termik AS	Unipro PJSC	Portland General Electric Company
Thungela Resources Ltd.	AES Espana BV	Interstate Power & Light Co.
GMR Power & Urban Infra Ltd.	Alliance Holdings GP LP	Duke Energy Florida LLC
Shaanxi Energy Investment Co., Ltd.	AGL Energy Limited	Virginia Electric & Power Co.
Old ANR LLC	Abu Dhabi National Energy Co. PJSC	Duke Energy Ohio, Inc.
China Huadian Overseas Development Management Co., Ltd.	Salungano Group Ltd.	Tennessee Valley Authority
MDU Resources Group, Inc.	ENEA SA	Arizona Public Service Co.
Perennial Energy Holdings Limited	China Shenhua Energy Company Limited	Louisville Gas & Electric Co.
SPIC 2018 USD Senior Perpetual Bond Co. Ltd.	InterGen NV	Appalachian Power Co.
SPIC Luxembourg Latin America Renewable Energy Investment Co.	Glow Energy Public Company Limited	Indiana Michigan Power Co.
Adani Electricity Mumbai Ltd.	PT Cikarang Listrindo Tbk	Consumers Energy Company
China Huadian Overseas Development 2018 Ltd.	Sunpower Group Ltd.	The Tata Power Company Limited
Yankuang Group (Cayman) Ltd.	Murray Energy Corporation	Reliance Infrastructure Limited
ContourGlobal Ltd.	Jaiprakash Power Ventures Limited	Engie Energia Chile SA
Indika Energy Capital III Pte Ltd.	Anhui Hengyuan Coal Industry & Electricity Power Co., Ltd.	Irkutskenergo JSC
Eterna Capital Pte Ltd.	Refrigeration Electrical Engineering Corp.	Izmir Demir Celik Sanayi AS
Core Natural Resources, Inc.	JAKS Resources Berhad	Southwestern Electric Power Co.
Evergy, Inc.	Fujian Funeng Co., Ltd.	Oglethorpe Power Corp.
PT Alfa Energi Investama Tbk	PT Adaro Indonesia	Monongahela Power Co.
Alliance Resource Operating Partners LP	GS Holdings Corp.	Bowen Coking Coal Limited
SPIC 2016 US Dollar Bond Co. Ltd.	Huaibei Mining Holdings Co., Ltd.	Semirara Mining & Power Corp.
WHA Utilities and Power Public Company Limited	China Power International Development Limited	Adani Enterprises Limited
TNB Global Ventures Capital Bhd.	Mechel PAO	NLC India Ltd.
Vistra Operations Co. LLC	SouthGobi Resources Ltd.	Electricity Generating Public Company Limited
Vistra Corp.	Shanghai Electric Power Co., Ltd.	Brickworks Limited
Duke Energy Florida Project Finance LLC	Shan Xi Hua Yang Group New Energy Co. Ltd.	Huaneng Power International, Inc.
Emera US Finance LP	New Hope Corporation Limited	Aboitiz Equity Ventures, Inc.
IE2 Holdco SAU	Shanxi Coal International Energy Group Co., Ltd.	MC Mining Limited
Entergy Utility Affiliates LLC	China Huadian Corp., Ltd.	The Lanna Resources Public Co., Ltd.
Beijing Energy Investment Holdings Ltd.	China Resources Power Holdings Co., Ltd.	Nava Limited
Foresight Energy LLC	PT Indo Tambangraya Megah Tbk	Inner Mongolia Mengdian Huaneng Thermal Power Corp. Ltd.
China Shenhua Overseas Capital Co., Ltd.	Henan Zhongfu Industrial Co., Ltd.	Colbun SA
Dynegy Finance I, Inc.	China Huaneng Group Co., Ltd.	AES Andes SA
Deneb Investments Ltd.	Natural Resource Partners LP	Gansu Energy Chemical Co., Ltd.
PGE Sweden AB	Beijing Jingneng Power Co., Ltd.	CESC Limited
EP Infrastructure as	Public Service Company of New Mexico	CEZ as
Feishang Anthracite Resources Limited	Shandong Energy Group Co., Ltd.	An Hui Wenergy Co., Ltd.
HK Electric Investments & HK Electric Investments Ltd.	Exxaro Resources Ltd.	Guangdong Electric Power Development Co., Ltd.
Public Power Corp. Finance Plc	Shanghai Datun Energy Resources Co., Ltd.	Shenzhen Energy Group Co., Ltd.
Huaneng Hong Kong Capital Ltd.	Talen Energy Supply LLC	Shenergy Co., Ltd.
Odas Elektrik Uretim Sanayi Ticaret AS	EWE AG	Hosken Consolidated Investments Ltd.
AES El Salvador Trust II	Southern Kuzbass Coal Co. PJSC	African Rainbow Minerals Ltd.
Global Power Synergy Public Company Limited	Guizhou Panjiang Refined Coal Co., Ltd.	SGC Energy Co., Ltd.
Zhejiang Zheneng Electric Power Co., Ltd.	Dominion Resources Capital Trust III	LX International Corp.
Indo Energy Finance II BV	Dominion Resources Capital Trust I	Korea Electric Power Corp.
Viesgo Infraestructuras Energeticas SL	Coal India Ltd.	PT Bumi Resources Tbk
Energa Finance AB	Shanxi Coking Coal Energy Group Co., Ltd.	San Miguel Corporation

Thermal Coal COMPANY		
EP Energy as	Elion Energy Co., Ltd.	PT United Tractors Tbk
Geo Energy Resources Limited	Guanghui Energy Co., Ltd.	TPI Polene Public Co. Ltd.
ContourGlobal Power Holdings SA	Xcel Energy Inc.	Tenaga Nasional Berhad
PT TBS Energi Utama Tbk	Peabody Energy Australia PCI Pty Ltd.	TCC Group Holdings CO., LTD.
Yancoal International Resources Development Co., Ltd.	Genesis Energy Limited	Jardine Cycle & Carriage Limited
Kinetic Development Group Limited	RATCH Group Public Co., Ltd.	Banpu Public Company Limited
Foresight Energy LP	MidAmerican Funding LLC	PT Astra International Tbk
PT ABM Investama Tbk	PT Bukit Asam Tbk	Hopewell Holdings Ltd.
Shaanxi Coal Industry Co., Ltd.	DTE Energy Company	Guangdong Investment Limited
PT Golden Energy Mines Tbk	Duke Energy Carolinas LLC	First Pacific Company Limited
Coal Energy SA	State Power Investment Corp., Ltd.	Power Assets Holdings Limited
Origin Energy Finance Ltd.	Emera Incorporated	CLP Holdings Limited
Top Frontier Investment Holdings, Inc.	Guangxi Guiguan Electric Power Co., Ltd.	RWE AG
Indo Energy Finance BV	Torrent Power Limited	Tokyo Electric Power Co. Holdings, Inc.
San Miguel Global Power Holdings Corp.	Korea East-West Power Co., Ltd.	Tohoku Electric Power Co., Inc.
Inner Mongolia Junzheng Energy & Chemical Group Co., Ltd.	Alliance Resource Partners LP	Shikoku Electric Power Co., Inc.
Energeticky a prumyslovy holding as	Vectren Corp.	The Okinawa Electric Power Co., Inc.
Yancoal Australia Ltd.	PT Golden Eagle Energy Tbk	Mitsui Matsushima Holdings Co., Ltd.
Sadovaya Group	Shanxi Lanhua Sci-Tech Venture Co., Ltd.	Kyushu Electric Power Co., Inc.
Banpu Power Public Co. Ltd.	PGE Polska Grupa Energetyczna SA	Kobe Steel, Ltd.
Jiangsu Guoxin Corp. Ltd.	Huadian Power International Corporation Limited	The Kansai Electric Power Co., Inc.
TPI Polene Power Public Company Limited	SPIC Industry-Finance Holdings Co., Ltd.	Hokuriku Electric Power Co.
Bumi Investment Pte Ltd.	Jizhong Energy Resources Co., Ltd.	Hokkaido Electric Power Co., Inc.
Xinjiang Guanghui Industry Investment (Group) Co., Ltd.	Peabody Energy Corporation	The Chugoku Electric Power Co., Inc.
Hero Asia Investment Ltd.	Hubei Energy Group Co., Ltd.	Chubu Electric Power Co., Inc.
TerraCom Limited	Wintime Energy Group Co., Ltd.	ITOCHU ENEX CO., LTD.
Izdemir Enerji Elektrik Uretim AS	Yankuang Energy Group Co., Ltd.	Washington H. Soul Pattinson and Company Limited
PT Berau Coal Energy	Ameren Corporation	Origin Energy Limited
Westmoreland Resource Partners LP	Park Elektrik Uretim Madencilik Sanayi ve Ticaret AS	Bisichi Plc
Listrindo Capital BV	Gujarat Mineral Development Corporation Limited	TransAlta Corporation
Bulgarian Energy Holding EAD	Zhengzhou Coal Industry & Electric Power Co., Ltd.	Otter Tail Corporation
Beijing Haohua Energy Resource Co., Ltd.	FirstEnergy Corp.	MGE Energy, Inc.
Petrovietnam Power Corp.	PPL Capital Funding, Inc.	Hallador Energy Company
PT Dian Swastatika Sentosa Tbk	STEAG GmbH	Berkshire Hathaway Energy Co.
Cloud Peak Energy Resources LLC	PT MNC Asia Holding Tbk	The AES Corporation
Indo Integrated Energy II BV	Puget Sound Energy, Inc.	Alliant Energy Corporation
China Qinfa Group Limited	Arch Resources, Inc.	WEC Energy Group, Inc.
Petmin Ltd.	Northern Electric Finance Plc	Westmoreland Coal Co.
China Longyuan Power Group Corp. Ltd.	Inner Mongolia Yitai Coal Co., Ltd.	Evergy Kansas Central, Inc.
Aksa Enerji Uretim AS	Guangzhou Development Group, Inc.	Avista Corporation
PT Harum Energy Tbk	Jinneng Holding Shanxi Electric Power Co., Ltd.	Union Electric Co.
Cloud Peak Energy Inc.	Golden Energy and Resources Limited	Tucson Electric Power Co.
Kuzbasskaya Toplivnaya Kompaniya PJSC	TBEA Co., Ltd.	Southwestern Public Service Co.
PT Trada Alam Minera Tbk	Entergy Utility Property, Inc.	The Southern Company
Empresa Electrica Angamos SA	Entergy Arkansas LLC	SCANA Corp.
Lubelski Wegiel BOGDANKA SA	Eskom Holdings SOC Ltd.	Puget Energy, Inc.
PT Bayan Resources Tbk	Datang International Power Generation Co., Ltd.	TXNM Energy, Inc.
PT Alamtri Resources Indonesia Tbk	Agritrade Resources Limited	Public Service Company of Colorado
Adani Power Limited	GD Power Development Co., Ltd.	Pinnacle West Capital Corporation
RattanIndia Power Limited	KyungDong Invest Co., Ltd.	PPL Corporation
Inter RAO UES PJSC	Wisconsin Public Service Corp.	PacifiCorp
China Coal Xinji Energy Co., Ltd.	Oklahoma Gas & Electric Co.	OGE Energy Corp.
Bathurst Resources Limited	Guangdong Baolihua New Energy Stock Co., Ltd.	Northern States Power Co.
Reliance Power Limited	Inner Mongolia Berun Chemical Co., Ltd.	NiSource Inc.
Hidili Industry International Development Limited	Israel Electric Corp. Ltd.	NACCO Industries, Inc.
Samruk-Energy JSC	NTPC Limited	ALLETE, Inc.
Energa SA	Lucky Cement Ltd.	MidAmerican Energy Co.
TAURON Polska Energia SA	The Hub Power Co. Ltd.	LG&E & KU Energy LLC
Vimetco NV	Jointo Energy Investment Co., Ltd. Hebei	IPALCO Enterprises, Inc.
Wollongong Coal Limited	Engro Corporation Limited	IDACORP, Inc.

Thermal Coal		
COMPANY		
Whitehaven Coal Limited	Public Power Corp. SA	CenterPoint Energy, Inc.
PT Indika Energy Tbk	Electric Power Development Co., Ltd.	Duke Energy Corporation
Malakoff Corporation Berhad	Huadian Energy Co., Ltd.	Dominion Energy, Inc.
Inner Mongolia Dian Tou Energy Corp. Ltd.	SDIC Power Holdings Co., Ltd.	DTE Electric Co.
Aboitiz Power Corp.	Albioma SA	CMS Energy Corporation
Metro Pacific Investments Corporation	PT Perusahaan Listrik Negara (Persero)	Cleco Corporate Holdings LLC
China Coal Energy Company Limited	Sarda Energy & Minerals Limited	Black Hills Corporation
KSK Power Venture Plc	DMCI Holdings, Inc.	Manila Electric Company
Majapahit Holding BV	AES Argentina Generacion SA	American Electric Power Company, Inc.
Sakari Resources Ltd.	PT Timah Tbk	
Total excluded companies		368



Controversial Weapons

In accordance with the Exclusion Instruction, controversial weapons are considered controversial as their production and use are assessed to be in conflict with the prohibitions set out in international convention. Further criteria are defined in the Exclusion Instruction.

Controversial Weapons		
Company		
Zen Technologies Ltd.	Poongsan Corp.	China Nuclear Engineering & Construction Corp. Ltd.
Walchandnagar Industries Ltd.	Pakistan Ordnance Factories	China North Industries Group Corp. Ltd.
The Day & Zimmermann Group, Inc.	Ordtech Military Industries	China North Industries Corp.
Synthetic Moulders Ltd.	MTAR Technologies Ltd.	China National Nuclear Corp.
State-Owned Foreign Trade Unitary Enterprise Belpetsvneshtech	Lockheed Martin Corporation	China Aerospace Science & Technology Corp.
Special Machine Building & Metallurgy PJSC	LIG Nex1 Co., Ltd.	China Aerospace Science & Industry Corp. Ltd.
Solar Industries India Limited	LIG Corp.	Bharat Dynamics Limited
Solar Defence & Aerospace Ltd.	Larsen & Toubro Limited	Avibras Industria Aeroespacial SA
SNT Holdings Co., Ltd.	KSB SE & Co. KGaA	Atomic Energy Power Corp.
SNT DYNAMICS Co., Ltd.	KSB Limited	Ashoka Manufacturing Ltd
Sandhar Technologies Limited	JMV LPS Ltd.	Aryt Industries Ltd.
Rostec Corp.	Jbj Technologies Ltd.	Arab Organization for Industrialization
Reshef Technologies Ltd.	Grupa Niewiadów - PGM SA	Anhui Military Industry Group Holding Co. Ltd.
Premier Explosives Ltd.	Defence Industries Organization	Anhui GreatWall Military Industry Co., Ltd.
POONGSAN HOLDINGS Corp.	China Poly Group Corp. Ltd.	Aerospace Long-March International Trade Co., Ltd.
Total excluded companies		45

Tobacco

Tobacco products are products made entirely or partly of leaf tobacco as raw material, which are intended to be smoked, sucked, chewed or snuffed. Tobacco products are also electronic cigarettes and other 'Next-Generation Products'. Criteria for the exclusions are defined in the Exclusion Instruction.

Tobacco COMPANY		
Ispire Technology Inc.	Hrvatski Duhani dd	Eastern Co. (Egypt)
RLX Technology, Inc.	Turning Point Brands, Inc.	Shanghai Industrial Holdings Limited
Imperial Brands Finance Netherlands BV	Tanzania Cigarette Co. Ltd.	Sinnar Bidi Udyog Ltd.
Smoore International Holdings Limited	Elentec Co., Ltd.	Lorillard LLC
PT Indonesian Tobacco Tbk	British American Tobacco Uganda Ltd.	Swedish Match AB
China Tobacco International (HK) Company Limited	Nikotiana BT Holding AD	CTO Co. Ltd.
JT International Financial Services BV	Charlie's Holdings, Inc.	Gilla, Inc.
IMA T&T SpA	Philip Morris International Inc.	Ceylon Tobacco Company Plc
Kimree, Inc.	KT&G Corp.	VST Industries Limited
Guangdong New Grand Long Packing Co., Ltd.	Wee-Cig International Corp.	SITAB
B.A.T. Netherlands Finance BV	Jerusalem Cigarette Co. Ltd.	British American Tobacco Co. Ltd.
PT Wismilak Inti Makmur Tbk	Reynolds American, Inc.	Godfrey Phillips India Ltd.
American Heritage International, Inc.	Press Corporation Plc	Al-Eqbal Co. for Investment Plc
Shenzhen Yinghe Technology Co., Ltd.	Slantse Stara Zagora Tabac AD	Philip Morris CR as
Asberry 22 Holdings, Inc.	Shumen Tabac AD	British American Tobacco Chile Operaciones SA
Shanghai Shunho New Materials Technology Co., Ltd.	Pazardzhik BTM AD	Societe Nationale d'exploitation Industrielle des Tabacs
A-1 Group, Inc.	Dupnitsa-Tabak AD	British American Tobacco Argentina SAICY F
Arcis Resources Corp.	Asenovgrad Tabac AD	NTC Industries Ltd.
Guangdong DFP New Material Group Co., Ltd.	Union Investment Corp.	Golden Tobacco Ltd.
Harrys Manufacturing Inc.	British American Tobacco plc	Pyxus International, Inc.
Litu Holdings Limited	B.A.T. Finance BV	Karelia Tobacco Co., Inc.
Duvanski Kombinat ad Podgorica	Bulgartabac Holding AD	British American Tobacco Peru Holdings Ltd.
Strumica Tabak AD	Shaanxi Jinye Science Technology & Education Group Co., Ltd.	Japan Tobacco, Inc.
BADECO ADRIA dd	British American Tobacco Bangladesh Company Limited	West Indian Tobacco Co. Ltd.
VPR Brands LP	Union Tobacco & Cigarette Industries Co.	BAT Brasil
Shenzhen Jinjia Group Co., Ltd.	Imperial Brands Finance Plc	Carreras Ltd.
British American Tobacco Italia SpA	North Atlantic Trading Co., Inc.	PT Bentoel International Investama
Tutunski Kombinat AD Prilep	British American Tobacco Zambia Plc	PT Hanjaya Mandala Sampoerna Tbk
British American Tobacco Yava Jsc	Philip Morris (Pakistan) Ltd.	LT Group, Inc.
Sila Holding AD	Khyber Tobacco Co. Ltd.	ITC Limited
Coka Duvanska Industrija AD	TSL Ltd.	British American Tobacco Malaysia Bhd.
Ngan Son JSC	British American Tobacco Zimbabwe Ltd.	Scandinavian Tobacco Group A/S
Duvanska Industrija AD Bujanovac	B.A.T. International Finance Plc	PT Gudang Garam Tbk
Cat Loi JSC	British American Tobacco Holdings (The Netherlands) BV	Huabao International Holdings Limited
22nd Century Group, Inc.	B.A.T Capital Corp.	Altadis SA
China Boton Group Company Limited	Gemini Group Global Corp.	Bat Australasia Ltd.
Altadis Emisiones Financieras SA	British American Tobacco Kenya Plc	Universal Corporation
Philip Morris Operations AD	Imperial Brands Plc	R.J. Reynolds Tobacco Holdings, Inc.
Icon Vapor, Inc.	Pakistan Tobacco Co. Ltd.	Altria Group, Inc.
AMVIG Holdings Ltd.	Consolidated Cigar Holdings, Inc.	Vector Group Ltd.
Total excluded companies		120



Fossil Fuel Transition Laggards Exclusions

Fossil Fuel Laggards		
COMPANY		
Viper Energy, Inc.	Metinvest BV	Naftogaz of Ukraine NJSC
Centerpoint Energy Transition Bond Co. II LLC	MIE Holdings Corporation	The Brooklyn Union Gas Co.
Flowco Holdings, Inc.	Ferrellgas Finance Corp.	Huadian Power International Corporation Limited
Infinity Natural Resources, Inc.	Ferrellgas LP	TC Pipelines, LP
Gulf Development Public Company Limited	Essar Energy Ltd.	SPIC Industry-Finance Holdings Co., Ltd.
Eushi Finance, Inc.	E-Commodities Holdings Limited	Jizhong Energy Resources Co., Ltd.
Summit Midstream Corporation	PT Berau Coal Energy	Empresa Nacional del Petroleo SA
LandBridge Company LLC	Haimo Technologies Group Corp.	NewOcean Energy Holdings Limited
Prio Forte SA	Westmoreland Resource Partners LP	Belgelec Finance SA
Karoon USA Finance, Inc.	Kinder Morgan, Inc.	Baltimore Gas & Electric Co.
South Bow Corporation	ESB Finance DAC	Eesti Energia AS
Keyfield International Bhd.	Chord Energy Corporation	El Paso Natural Gas Co. LLC
RWE Finance US LLC	EnQuest Plc	LUKOIL International Finance BV
Pennsylvania Electric Co.	Holly Energy Partners, L.P.	Continental Resources, Inc.
Metropolitan Edison Co.	ENEOS Holdings, Inc.	Motiva Enterprises LLC
Shell Finance US, Inc.	Scorpio Tankers Inc.	Surge Energy Inc.
Virginia Power Fuel Securitization LLC	eustream as	Petrobras International Finance Co.
Borr IHC Ltd.	EnLink Midstream Finance Corp.	Enterprise Products Partners LP
DTE Electric Securitization Funding II LLC	Listrindo Capital BV	Plains All American Pipeline, L.P.
Veren Inc.	Bulgarian Energy Holding EAD	Polytec Asset Holdings Limited
EPH Financing International as	Beijing Haohua Energy Resource Co., Ltd.	Peabody Energy Corporation
Atlas Energy Solutions Inc.	Sunshine Oilsands Ltd.	Cerro Negro Finance Ltd.
Energia Group Roi Financeco DAC	Petrovietnam Power Corp.	Formosa Petrochemical Corp.
DOF Group ASA	Panoro Energy ASA	BOURBON Maritime SASU
PT Petrindo Jaya Kreasi Tbk	Elering AS	Titan Petrochemicals Group Limited
ADNOC Gas Plc	Fulcrum Utility Services Ltd.	Norinco International Cooperation Ltd.
Ades Holding Co.	SemGroup, LLC	Zhuhai Holdings Investment Group Limited
Sitio Royalties Corp.	ACWA Power Co.	Hubei Energy Group Co., Ltd.
Vitesse Energy, Inc.	KrisEnergy Ltd.	Wintime Energy Group Co., Ltd.
Dexon Technology Public Co., Ltd.	PT Dian Swastatika Sentosa Tbk	Yankuang Energy Group Co., Ltd.
Seacrest Petroleo Bermuda Ltd.	Exillon Energy Plc	Idemitsu Kosan Co., Ltd.
Ahlatci Dogal Gaz Dagitim Enerji ve Yatirim AS	Mongolian Mining Corporation	Padma Oil Plc
Syngenta Group Finance Ltd.	Yantai Jereh Oilfield Services Group Co. Ltd.	Petrosibir AB
Strathcona Resources Ltd.	Antero Resources Finance Corp.	Royal Vopak NV
CanAsia Energy Corp.	Parex Resources Inc.	CNX Resources Corporation
Granite Ridge Resources, Inc.	Albanesi SA	El Paso Energy Capital Trust I
MISC Capital Two (Labuan) Ltd.	Hutchison Whampoa Finance (09) Ltd.	Fieldpoint Petroleum Corp.
Odfjell Technology Ltd.	Cloud Peak Energy Resources LLC	K N Capital Trust III
Excelerate Energy, Inc.	Third Coast Midstream LLC	Peyto Exploration & Development Corp.
Seadrill Limited	Zapadoslovenska Energetika as	McCoy Global Inc.
PT Alamtri Minerals Indonesia Tbk	Stanmore Resources Limited	DOF ASA
Crescent Energy Company	Mahanagar Gas Limited	Iberpapel Gestion SA
ProFrac Holding Corp.	HPCL-Mittal Energy Ltd.	Shell Oman Marketing
Gulfport Energy Corporation	Antero Resources Corporation	TGS ASA
Inter Pipeline Ltd.	Indo Integrated Energy II BV	Saratov Oil & Refinery PJSC
Conuma Resources Ltd.	Ruwais Power Co. PJSC	Park Elektrik Uretim Madencilik Sanayi ve Ticaret AS
Drilling Tools International Corporation	Empresas Lipigas SA	Solstad Offshore ASA
Petronor E&P ASA	Bapco Energies BSC Closed	Shell Pilipinas Corporation
HF Sinclair Corporation	Pipeline Funding Co. LLC	HELLENiQ ENERGY Holdings SA
Steel Hawk Bhd.	Manitok Energy, Inc.	Gujarat Mineral Development Corporation Limited

Fossil Fuel Laggards		
COMPANY		
Kiwetinoth Energy Corp.	Japan Drilling Co., Ltd.	Zhengzhou Coal Industry & Electric Power Co., Ltd.
Aris Water Solutions, Inc.	Henson Finance Ltd.	Petrol dd Ljubljana
Stronghold Digital Mining, Inc.	Hutchison Whampoa International (09/19) Ltd.	Sichuan Expressway Company Limited
Aegis Vopak Terminals Ltd.	Hutchison Whampoa International (09/16) Ltd.	Wafi Energy Pakistan Ltd.
Lime Petroleum AS	Cobalt International Energy, Inc.	K-Electric Ltd.
NextNRG, Inc.	China Huarong Energy Company Limited	FirstEnergy Corp.
CQP Holdco LP	Wintershall Dea GmbH	Innovex International, Inc.
DT Midstream, Inc.	Petronas Global Sukuk Ltd.	CGX Energy Inc.
Valaris Limited	Rosa Power Supply Co. Ltd.	PPL Capital Funding, Inc.
Can2 Termik AS	PT Bussan Auto Finance	STEAG GmbH
Noble Corporation plc	Targa Resources Partners Finance Corp.	GAIL (India) Limited
Crescent Energy Finance LLC	Wales & West Utilities Finance Plc	Transneft PJSC
Greenidge Generation Holdings Inc.	China Qinfu Group Limited	Saras SpA
Bapco Energies Sukuk Ltd.	Vedanta Resources Jersey Ltd.	PT MNC Asia Holding Tbk
Thungela Resources Ltd.	North Energy ASA	Puget Sound Energy, Inc.
Superior Energy Services, Inc.	Aksa Enerji Uretim AS	AB Ignitis Gamyba
APA CORPORATION	Hutchison Whampoa International (09) Ltd.	SK, Inc.
BKV Corp.	PetroVietnam Power Nhon Trach 2 JSC	Gulfport Energy Operating Corp.
Wintershall Dea Finance 2 BV	BW Group Ltd.	WMC Finance (USA) Ltd.
Friedrich Vorwerk Group SE	PT Harum Energy Tbk	FortisBC, Inc.
ARKO Corp.	OCV Recovery AS	Valero Energy Corporation
Bellis Acquisition Co. Plc	Mo-BRUK SA	Pioneer Natural Resources Company
Brava Energia	Transocean Offshore Texas, Inc.	Arch Resources, Inc.
Enauta Participacoes SA	Transocean International Ltd.	Pharos Energy Plc
AGI Finance Pty Ltd.	Strong Petrochemical Holdings Limited	Chevron U.S.A., Inc.
Delek Overriding Royalty Leviathan Ltd.	PT Bukit Makmur Mandiri Utama	Oleoducto Central SA
EARTH INFINITY CO. LTD.	CSI Compressco LP	Energie AG Oberoesterreich
GMR Power & Urban Infra Ltd.	Lilis Energy, Inc.	Northern Electric Finance Plc
MIND Technology, Inc.	Genneia SA	TravelCenters of America Inc.
ADNOC Logistics & Services Plc	Matador Resources Company	Pakistan Oilfields Ltd.
Glencore Capital Finance DAC	San Leon Energy Plc	CITIC Resources Holdings Limited
Shaanxi Energy Investment Co., Ltd.	Peru LNG SRL	E1 Corp.
Aris Water Holdings LLC	Ruby Pipeline LLC	Inner Mongolia Yitai Coal Co., Ltd.
MSU Energy SA	Sumiseki Holdings, Inc.	Guangzhou Development Group, Inc.
Rubis Terminal	Cloud Peak Energy Inc.	Jiangsu Expressway Company Limited
Gaz Finance Plc	SunCoke Energy, Inc.	Jinneng Holding Shanxi Electric Power Co., Ltd.
Technip Energies NV	HKCG (Finance) Ltd.	AWE Pty Ltd.
BW Energy Ltd.	Athabasca Oil Corporation	Shanxi Meijin Energy Co., Ltd.
HighPeak Energy, Inc.	Kuzbasskaya Toplivnaya Kompaniya PJSC	Guangdong Zhongnan Iron & Steel Co., Ltd.
Hess Midstream LP	PT Trada Alam Minera Tbk	Beijing Enterprises Holdings Limited
SD International Sukuk Ltd.	Uzma Berhad	Golden Energy and Resources Limited
Topaz Energy Corp.	Helleniq Energy Finance Plc	YTL Power International Berhad
Mytilineos Financial Partners SA	KazMunaiGaz Finance Sub BV	Woodside Finance Ltd.
Sundance Energy Inc.	Pacc Offshore Services Holdings Ltd.	Slavneft-Yaroslavnefteorgsintez PJSC
Dalipal Holdings Limited	Navios Maritime Acquisition Corporation	Xiangcai Co., Ltd.
Ithaca Energy Plc	Empresa Electrica Angamos SA	TBEA Co., Ltd.
Wintershall Dea Finance BV	Lubelski Wegiel BOGDANKA SA	Petrolia SE
Kimou Environmental Holding Limited	Vital Energy, Inc.	Prosafe SE
Trans Mountain Corp.	Indus Gas Ltd.	Hengyi Petrochemical Co., Ltd.
Core Laboratories Inc.	Kolibri Global Energy Inc.	ORLEN Unipetrol as
Transocean Sentry Ltd.	Cenovus Energy Inc.	Aenza SAA
Brooge Energy Limited	PT Bayan Resources Tbk	Enbridge Pipelines, Inc.
China Huadian Overseas Development Management Co., Ltd.	PT Alamtri Resources Indonesia Tbk	Companhia de Gas de Sao Paulo-Comgas
Arabian Drilling Co.	Petroteq Energy Inc.	United Refining Co.
Czech Gas Networks Investments SARL	Chariot Ltd.	UGI Utilities, Inc.
Brooge Petroleum & Gas Investment Co. FZE	Entergy Texas, Inc.	Texaco Capital, Inc.
Vedanta Resources Finance II Plc	Sino Gas & Energy Holdings Pty Ltd.	TECO Finance, Inc.

Fossil Fuel Laggards		
COMPANY		
EG Global Finance Plc	Entergy Utility Affiliates LLC	Total Energy Services Inc.
The Drilling Company of 1972 A/S	Adani Power Limited	Gulf Island Fabrication, Inc.
MNRL Sub, Inc.	Navios South American Logistics, Inc.	Entergy New Orleans LLC
International Airport Finance SA	Gulf International Services QSC	Entergy Utility Property, Inc.
Transocean Poseidon Ltd.	Baskent Dogalgaz Dagitim Gayrimenkul Yatirim Ortakligi AS	Entergy Arkansas LLC
Medco Oak Tree Pte Ltd.	Prax Upstream Ltd.	Eskom Holdings SOC Ltd.
Enbridge Gas, Inc.	OSX Brasil SA	Erdoel-Lagergesellschaft mbH
Northern Ocean Ltd.	Granite Oil Corp.	Northern Natural Gas Co.
MDU Resources Group, Inc.	Investment Corp. of Dubai	Florida Gas Transmission Co. LLC
Trinidad Petroleum Holdings Ltd.	Honghua Group Ltd.	IMSK SE
Var Energi ASA	RattanIndia Power Limited	SeaRiver Maritime Financial Holdings, Inc.
Coronado Finance Pty Ltd.	Forbes Energy Services Ltd.	FortisBC Energy, Inc.
Diamond S Shipping, Inc.	Corsa Coal Corp.	GS Caltex Corp.
Cool Co. Ltd.	Oriental Energy Co., Ltd.	Shell Finance (Netherlands) BV
Perennial Energy Holdings Limited	Panoche Energy Center LLC	Repsol International Finance BV
Adani Power (Jharkhand) Ltd.	Malaysia Marine & Heavy Engineering Holdings Bhd.	Datang International Power Generation Co., Ltd.
CEPSA Finance SAU	ITC Midwest LLC	Agritrade Resources Limited
LLPL Capital Pte Ltd.	Calpine Corp.	GD Power Development Co., Ltd.
ENN Clean Energy International Investment Ltd.	Inter RAO UES PJSC	KyungDong Invest Co., Ltd.
Roan Resources, Inc.	Newcastle Coal Infrastructure Group Pty Ltd.	Wisconsin Public Service Corp.
SPIC 2018 USD Senior Perpetual Bond Co. Ltd.	NGPL PipeCo LLC	Santos Finance Ltd.
Kinetik Holdings LP	Teekay Tankers Ltd.	Oklahoma Gas & Electric Co.
SPIC Luxembourg Latin America Renewable Energy Investment Co.	PetroVietnam Transportation Corp.	Guangdong Baolihua New Energy Stock Co., Ltd.
Andeavor LLC	China Coal Xinji Energy Co., Ltd.	Inner Mongolia Berun Chemical Co., Ltd.
Adani Electricity Mumbai Ltd.	Anton Oilfield Services Group	North Huajin Chemical Industries Co., Ltd.
Coronado Global Resources Inc.	Daldrup & Soehne AG	Spindletop Oil & Gas Co.
Sasol Financing USA LLC	NK Rosneft-Yamalnefteproduct JSC	Western Energy Services Corp.
Sinopec Group Overseas Development Ltd.	Nostrum Oil & Gas Plc	Trican Well Service Ltd.
Sinopec Group Overseas Development (2018) Ltd.	Terega SAS	Genesis Energy LP
Midwest Connector Capital Co. LLC	Terega SA	Freehold Royalties Ltd.
Rattler Midstream LP	Bathurst Resources Limited	Gastar Exploration LLC
Tervita Corporation	Saudi Aramco Base Oil Co.	Midland Cogeneration Venture LP
Ensign Drilling, Inc.	AusTex Oil Ltd.	BHP Billiton Finance (USA) Ltd.
Magnolia Oil & Gas Operating LLC	GOIL Plc	Transnet SOC Ltd.
New Fortress Energy Inc.	Transportadora de Gas Internacional SA ESP	Israel Electric Corp. Ltd.
Transocean Pontus Ltd.	Franco-Nevada Corporation	Glencore Plc
Paratus Energy Services Ltd.	Eneva SA	Rubis Energy Kenya Plc
Fluvius System Operator CV	Epsilon Energy Ltd.	Cumberland Farms, Inc.
Transocean Guardian Ltd.	Trinidad Generation Unlimited	Gazprom Neft PJSC
Maverick Natural Resources LLC	Western Midstream Operating LP	Xiamen International Trade Group Corp. Ltd.
SPR Finance Corp.	Reliance Power Limited	BHP Billiton Finance Ltd.
Harvest Oil & Gas Corp.	Siamgas and Petrochemicals Public Company Limited	Quinenco SA
GC Treasury Center Co. Ltd.	Linea Group Holding SpA	Electricity Supply Board Ltd.
ADNOC Drilling Co. PJSC	TGI International Ltd.	Ervia
Okeanis Eco Tankers Corp.	Archer Ltd.	NTPC Limited
Ithaca Energy (North Sea) Plc	PetroVietnam Technical Services Corp.	CITGO Petroleum Corp.
KLX Energy Services Holdings, Inc.	Plains GP Holdings, L.P.	Enerplus Corporation
Delek Logistics Finance Corp.	Hidili Industry International Development Limited	PHX Energy Services Corp.
China Huadian Overseas Development 2018 Ltd.	Vantage Drilling International Ltd.	Helix Energy Solutions Group, Inc.
Psnh Funding LLC 3	Korea District Heating Corp.	NOV Inc.
Cometa Energia SA de CV	PT Elnusa Tbk	Mesquite Energy, Inc.
Teekay Shuttle Tanker Finance LLC	SGSP (Australia) Assets Pty Ltd.	ARC Resources Ltd.
Thaioil Treasury Center Co. Ltd.	Targa Resources Corp.	INVENI Co., Ltd.

Fossil Fuel Laggards		
COMPANY		
Companhia Energetica Miranda	Northern Gas Networks Finance Plc	Shandong Xinchao Energy Corp. Ltd.
Companhia Energetica Jaguará	Wales & West Utilities Ltd.	CK Infrastructure Holdings Limited
Equitrans Midstream Corporation	Meridian Minerals Pty Ltd.	Sui Northern Gas Pipelines Ltd.
ConocoPhillips Canada Funding Co. II	Hermes Moscow JSC	Lucky Cement Ltd.
Energean Plc	Dana Gas Sukuk Ltd.	The Hub Power Co. Ltd.
Fair Hydro Trust	Lea Power Partners LLC	Pakistan State Oil Co. Ltd.
Talos Energy Ventures GOM LLC	Approach Resources Inc.	Fundacion Bancaria Caixa d'Estalvis i Pensions de Barcelona
Indigo Natural Resources LLC	En+ Group International PJSC	Jointo Energy Investment Co., Ltd. Hebei
Medco Platinum Road Pte Ltd.	PTT Oil and Retail Business Public Company Limited	Wuchan Zhongda Group Co., Ltd.
Regency Energy Finance Corp.	Cimarex Resolute LLC	Lucky Core Industries Limited
Moss Creek Resources Holdings, Inc.	Weatherford International Ltd. (Bermuda)	Engro Corporation Limited
Biglari Holdings Inc.	Cequence Energy Ltd.	National Refinery Ltd.
HighPoint Resources Corporation	CVR Energy, Inc.	Mari Energies Ltd.
Talos Energy Inc.	Termocandelaria Power SA	Liaoning Cheng Da Co., Ltd.
ChampionX Corporation	Wollongong Coal Limited	Rosneft Oil Co.
Autobahn Tank & Rast Gruppe GmbH & Co. KG	The Power & Water Utility Co. for Jubail & Yanbu	Colonial Pipeline Co.
Yankuang Group (Cayman) Ltd.	Whitehaven Coal Limited	Texas Eastern Transmission LP
Roadster Finance DAC	Deleum Bhd.	Headwater Exploration Inc.
Hess Infrastructure Partners LP	CITIC Resources Finance (2007) Ltd.	Northwest Pipeline LLC
Abu Dhabi National Oil Co. for Distribution PJSC	Painted Pony Energy Ltd.	Tecpetrol SA
Schlumberger Finance Canada Ltd.	BlueNord ASA	Ecopetrol SA
ContourGlobal Ltd.	PT Indika Energy Tbk	Comision Federal de Electricidad SA de CV
Southern Power Generation Sdn. Bhd.	Rex Energy Corp.	Electric Power Development Co., Ltd.
Indika Energy Capital III Pte Ltd.	Concho Resources Inc.	Evolution Petroleum Corporation
Energia Group NI FinanceCo Plc	Malakoff Corporation Berhad	Samson Oil & Gas Limited
United Strength Power Holdings Limited	D'Amico International Shipping SA	Huadian Energy Co., Ltd.
Eterna Capital Pte Ltd.	SK Innovation Co., Ltd.	Thai Oil Public Company Limited
Quintana Energy Services, Inc.	FLEX LNG Ltd.	National Petroleum Co., Ltd.
HD Hyundai Marine Solution Co., Ltd.	Corral Petroleum Holdings AB	SDIC Power Holdings Co., Ltd.
Core Natural Resources, Inc.	Beijing Gas Blue Sky Holdings Limited	Isramco Negev 2 LP
Nostrum Oil & Gas Finance BV	Gulf Marine Services PLC	Arko Holdings Ltd.
Maran Shuttle Tankers LLC	Spectra Energy Partners LP	Transcontinental Gas Pipe Line Co. LLC
Berry Corporation	Inner Mongolia Dian Tou Energy Corp. Ltd.	Equinor ASA
Geo Coal International Pte Ltd.	PE Environmental Funding LLC	Panhandle Eastern Pipe Line Co. LP
Castle Peak Power Co., Ltd.	Midcontinent Express Pipeline LLC	Hiroshima Gas Co., Ltd.
Castle Peak Power Finance Co. Ltd.	Gas Natural de Lima y Callao SA	Chennai Petroleum Corporation Limited
CNAC (HK) Finbridge Co. Ltd.	NSG Holdings II LLC	PT Pertamina (Persero)
Vista Energy SAB de CV	Petra Energy Bhd.	Gazpromneft-Moscow Refinery OJSC
PT Alfa Energi Investama Tbk	Ring Energy, Inc.	Yinson Holdings Berhad
CNRC Capitale Ltd.	High Peak Royalties Limited	Suburban Propane Partners, L.P.
Ranger Energy Services, Inc.	TransCapitalInvest DAC	Public Service Company of New Hampshire
PT Pelayaran Tamarin Samudra Tbk	IFM (US) Colonial Pipeline 2 LLC	Meren Energy Inc.
CNAC (HK) Synbridge Co., Ltd.	Kangaroo Resources Pty Ltd.	Star Group LP
HKN Energy Ltd.	Calfrac Holdings LP	Sherritt International Corporation
Prima Marine Public Company Limited	Refex Industries Ltd.	Serica Energy Plc
Tapstone Energy LLC	Qalaa For Financial Investments (S.A.E.)	NWF Group Plc
Talent Yield (Euro) Ltd.	Aboitiz Power Corp.	Geospace Technologies Corporation
Covey Park Energy LLC	Keppel Infrastructure Trust	PT Perusahaan Listrik Negara (Persero)
Orazul Energia Peru S.A.C	Aspire Mining Limited	Tatneft PJSC
PKM Canada Ltd.	Territorial Generating Co. No 1 PJSC	SEOUL CITY GAS CO., LTD.
Liberty Energy Inc.	Cheniere Energy Partners LP	Bangkok Aviation Fuel Services Public Co., Ltd.
Magnolia Oil & Gas Corporation	Metro Pacific Investments Corporation	Brightoil Petroleum (Holdings) Ltd.
Amplify Energy Corp.	Aker BP ASA	Equital Ltd.
Alliance Resource Operating Partners LP	Nakilat, Inc.	Etablissements Maurel & Prom SA
Sinopec Group Overseas Development (2017) Ltd.	Regency Energy Partners LP	China Gas Holdings Limited
National Energy Services Reunited Corp.	PetroVietnam Drilling & Well Services JSC	Energy Earth Public Company Limited
Antero Midstream Corporation	China Coal Energy Company Limited	DMCI Holdings, Inc.

Fossil Fuel Laggards		
COMPANY		
Exterran Energy Solutions LP	Hutchison Whampoa Finance UK Plc	Inner Mongolia ERDOS Resources Co., Ltd.
Dwellop AS	Targa Resources Partners LP	Newmed Energy LP
Northern Drilling Ltd.	Vantage Drilling Co.	Naphtha Israel Petroleum Corp. Ltd.
Kinetik Holdings Inc.	Glencore Finance (Canada) Ltd.	J.O.E.L. Jerusalem Oil Exploration Ltd.
PTTEP Treasury Center Co., Ltd.	China Merchants Energy Shipping Co., Ltd.	Empire Petroleum Corporation
Alta Mesa Resources, Inc.	APA Infrastructure Ltd.	Swan Corp Limited
Delek US Holdings, Inc.	Cadent Finance Plc	Vedanta Limited
U.S. Well Services Holdings LLC	Afrimat Ltd.	Vivo Energy Ltd.
International Petroleum Corporation	Majapahit Holding BV	Oando Plc
Stoneway Capital Corp.	ConocoPhillips Canada Funding Co. I	Conoil Plc
ProPetro Holding Corp.	Bluewater Energy Services BV	Petroliam Nasional Bhd.
NCS Multistage Holdings, Inc.	Sakari Resources Ltd.	PTT Public Co., Ltd.
GOHL Capital Ltd.	Forum Energy Technologies, Inc.	CITGO Holding, Inc.
Kimbell Royalty Partners LP	Hutchison Whampoa Finance [06] Ltd.	CARBO Ceramics Inc.
Bruin E&P Partners LLC	Jutal Offshore Oil Services Ltd.	El Paso Electric Company
Select Water Solutions, Inc.	Clean Energy Fuels Corp.	MOL Hungarian Oil & Gas Plc
NexTier Oilfield Solutions Inc.	Petrolympic Ltd.	PT Timah Tbk
Borr Drilling Limited	Shanxi Lu'An Environmental Energy Development Co., Ltd.	Wisconsin Power & Light Co.
Mid-Atlantic Interstate Transmission LLC	Organizacion Terpel SA	Wisconsin Electric Power Company
Source Energy Services LP	Lamprell Plc	Texas-New Mexico Power Co.
SPIC 2016 US Dollar Bond Co. Ltd.	Pingdingshan Tianan Coal Mining Co., Ltd.	Mississippi Power Co.
HD HYUNDAI Co., Ltd.	Cadogan Energy Solutions Plc	Georgia Power Co.
South32 Treasury Ltd.	Evolve Transition Infrastructure LP	Alabama Power Company
Fjord Defence Group ASA	Jinneng Holding Shanxi Coal Industry Co., Ltd.	Sierra Pacific Power Co.
InPlay Oil Corp.	Yunnan Energy Investment Co., Ltd.	Public Service Electric & Gas Co.
WHA Utilities and Power Public Company Limited	AXP Energy Limited	Southern California Gas Co.
B.Grimm Power Public Co. Ltd.	Rockies Express Pipeline LLC	Northern States Power Co. (Wisconsin)
TNB Global Ventures Capital Bhd.	GeoPark Limited	Northern Indiana Public Service Co. LLC
Transocean Phoenix 2 Ltd.	BW Offshore Ltd.	DTE Gas Co.
BPRL International Singapore Pte Ltd.	KazMunaiGas Exploration Production JSC	Interstate Power & Light Co.
Ultrapar International SA	Rhino Resource Partners LP	Hawaiian Electric Co., Inc.
DEA Finance SA	ConocoPhillips Australia Funding Co.	Florida Power & Light Co.
Prairie Provident Resources Inc.	Petro Welt Technologies GmbH	Duke Energy Florida LLC
Great Western Petroleum LLC	JSW Energy Limited	Diamond Offshore Drilling, Inc.
Antero Midstream Partners LP	Gallant Venture Ltd.	Transportadora de Gas del Norte SA
Perak Transit Berhad	Dayang Enterprise Holdings Bhd.	Virginia Electric & Power Co.
Mammoth Energy Services, Inc.	Pantheon Resources Plc	Duke Energy Indiana LLC
Seven Energy Finance Ltd.	Spartan Delta Corp.	Duke Energy Ohio, Inc.
Seven Energy Ltd.	Rabigh Refining & Petrochemical Co.	Tennessee Valley Authority
Ascent Resources Utica Holdings LLC	The Second Generation Co. of the Wholesale Power Market PJSC	Arizona Public Service Co.
Tallgrass Energy Partners LP	Unipro PJSC	Nordic American Tankers Limited
Colorado Interstate Gas Co. LLC	INPEX Corp.	Louisville Gas & Electric Co.
Floene Energias SA	PT Surya Artha Nusantara Finance	Appalachian Power Co.
Alpha Metallurgical Resources, Inc.	EXCO Resources, Inc.	Indiana Michigan Power Co.
Uniper SE	CES Energy Solutions Corp.	Consumers Energy Company
ONGC Videsh Vankorneft Pte Ltd.	The National Gas Company of Trinidad & Tobago Ltd.	Atlantic City Electric Co.
Tengizchevroil Finance Co. International Ltd.	Hunter Group ASA	JKX Oil & Gas Ltd.
Lonestar Resources US, Inc.	SandRidge Energy, Inc.	Indian Oil Corporation Limited
Australis Oil & Gas Limited	AES Espana BV	Oil & Natural Gas Corp. Ltd.
Duke Energy Florida Project Finance LLC	Alliance Holdings GP LP	PETRONAS Gas Berhad
Maha Capital AB	DCP Midstream Operating LP	Aban Offshore Limited
VPower Group International Holdings Limited	SED Energy Holdings Plc	Reliance Infrastructure Limited
Sinopec Group Overseas Development (2016) Ltd.	Hargreaves Services Plc	Bharat Petroleum Corporation Limited
Warrior Met Coal, Inc.	TORC Oil & Gas Ltd.	Samyak International Ltd.
BCPG Public Company Limited	Northern Gas Networks Ltd.	Empresa Electrica Pehuenche SA

Fossil Fuel Laggards		
COMPANY		
TORM Plc	Dolphin Group ASA	Engie Energia Chile SA
Yu Group PLC	Maridive & Oil Services SAE	China Oil and Gas Group Limited
Southern Gas Corridor CJSC	Scotland Gas Networks Plc	SLOVNAFT as
Schlumberger Finance France SAS	Southern Gas Networks Plc	Mosenergo OAO
Eagle Energy Inc.	Summit Power Ltd.	Irkutskenergo JSC
Permian Resources Corporation	Rosneft Finance SA	Surgutneftegas PJSC
Energijos Skirstymo Operatorius AB	RN Holding OJSC	Oil Co. LUKOIL PJSC
EG Group Ltd.	China Risun Group Ltd.	Gazprom PJSC
Naturel gaz Sanayi ve Ticaret AS	Brookside Energy Limited	GEK Terna SA
CNRC Capital Ltd.	DHT Holdings, Inc.	Eletson Holdings, Inc.
Saipem Finance International BV	DCP Midstream LP	Erin Energy Corp.
IE2 Holdco SAU	Interoil Exploration & Production ASA	Turcas Holding AS
Ramaco Resources, Inc.	EL5-Energco PJSC	Türkiye Petrol Rafinerileri AS
PT Borneo Lumbung Energi & Metal	Tianjin Port Development Holdings Limited	Koc Holding A.S.
American Tanker, Inc.	Energy Transfer Operating LP	Izmir Demir Celik Sanayi AS
OKEA ASA	Energy Transfer LP	Pampa Energia SA
Entergy Louisiana LLC	Sunoco Logistics Partners Operations LP	Capex SA
Cosmo Energy Holdings Co., Ltd.	Alexandria Mineral Oils Co.	Duke Energy Kentucky, Inc.
Ping Petroleum UK Plc	Koks PJSC	Tennessee Gas Pipeline Co. LLC
Ovintiv Canada ULC	Boardwalk Pipeline Partners LP	Tampa Electric Co.
Ovintiv Exploration, Inc.	Aldrees Petroleum & Transport Services Co.	Southwestern Electric Power Co.
Ovintiv Inc.	Dana Gas PJSC	Southern Natural Gas Co. LLC
COSL Singapore Capital Ltd.	QatarEnergy LNG S[1]	Public Service Company of Oklahoma
SEACOR Marine Holdings Inc.	Ausnet Pty Ltd. (Victoria)	Oglethorpe Power Corp.
Diversified Energy Co. Plc	Abu Dhabi National Energy Co. PJSC	Monongahela Power Co.
Beijing Energy Investment Holdings Ltd.	Star Energy Group Plc	Kentucky Power Co.
AAG Energy Holdings Limited	Shell International Finance BV	Indiana Gas Co., Inc.
Gas Networks Ireland	Salungano Group Ltd.	Boston Gas Co.
Euronav MI II, Inc.	Urals Energy Public Co. Ltd.	Sintana Energy Inc.
TransCanada Trust	Rockhopper Exploration Plc	Royale Energy, Inc.
Jimah East Power Sdn. Bhd.	Wentworth Resources Ltd.	Vibra Energia SA
CNOOC Finance (2015) U.S.A. LLC	DOF Subsea AS	Ampla Energia e Servicos SA
Cnooc Finance (2015) Australia Pty Ltd.	Hutchison Whampoa Finance (05) Ltd.	AntarChile SA
Sinopec Group Overseas Development (2015) Ltd.	Sasol Financing International Ltd.	Bowen Coking Coal Limited
ROSNEFT International Ltd.	Atlantic Petroleum P/F	China Petroleum & Chemical Corporation
Black Stone Minerals, L.P.	High Arctic Energy Services Inc.	China National Petroleum Corp.
Tallgrass Energy, LP	Enable Midstream Partners LP	Mangalore Refinery & Petrochemicals Ltd.
Cheniere Corpus Christi Holdings LLC	Sidi Kerir Petrochemicals	Semirara Mining & Power Corp.
Foresight Energy LLC	Gran Tierra Energy Inc.	Beach Energy Limited
China Shenhua Overseas Capital Co., Ltd.	Profire Energy, Inc.	Adani Enterprises Limited
AI Candelaria (Spain) SLU	Songa Offshore SE	NLC India Ltd.
Hafnia Ltd.	China Shenhua Energy Company Limited	IRPC Public Company Limited
Venture Global LNG, Inc.	Sound Energy Plc	PT Kawasan Industri Jababeka Tbk
Kenon Holdings Ltd.	Alon USA Energy, Inc.	Electricity Generating Public Company Limited
EXTERRAN CORPORATION	Global Partners LP	Nederlandse Gasunie NV
Permian Resources Operating LLC	T7 Global Berhad	Brickworks Limited
Colgate Energy Partners III LLC	Capitan Investment Ltd.	Kingsland Energy Corp.
RM Partners LP	InterGen NV	Callon Petroleum Company
Blue Racer Finance Corp.	Qatar Gas Transport Co.	Huaneng Power International, Inc.
Hutchison Whampoa Finance (14) Ltd.	MEG Energy Corp.	Pioneer Energy Services Corp.
Hutchison Whampoa International (14) Ltd.	Churchill Mining Plc	Cheniere Energy, Inc.
Atlas Energy Group LLC	Pine Cliff Energy Ltd.	Transportadora de Gas del Sur SA
Dynegy Finance I, Inc.	Glow Energy Public Company Limited	Aboitiz Equity Ventures, Inc.
Hess Midstream Operations LP	Sabine Pass LNG LP LLC	Fluxys Belgium SA
White Star Petroleum LLC	Boardwalk Pipelines LP	PT Medco Energi Internasional Tbk
Shamal Az-Zour Al-Oula Power & Water Co. KSCP	Dubai Electricity & Water Authority	PT AKR Corporindo Tbk
Enerya Enerji AS	PT Cikarang Listrindo Tbk	Blue Star Helium Limited
Extraction Oil & Gas, Inc.	Sea1 Offshore, Inc.	MC Mining Limited
Kuwait Energy Plc	Kot Addu Power Co. Ltd.	Shenzhen Nanshan Power Co., Ltd.

Fossil Fuel Laggards		
COMPANY		
Deneb Investments Ltd.	Havila Shipping ASA	Bangchak Corporation Public Company Limited
CNX Midstream Partners LP	TransMontaigne Partners LLC	The Lanna Resources Public Co., Ltd.
South32 Ltd.	Attock Petroleum Ltd.	Sandur Manganese & Iron Ores Ltd.
Ranhill Utilities Bhd.	Delek & Avner-Yam Thetis Ltd.	Nava Limited
Leucrotta Exploration Inc.	Navigator Holdings Ltd.	Aegis Logistics Ltd.
YPF Energia Electrica SA	Murray Energy Corporation	Inner Mongolia Mengdian Huaneng Thermal Power Corp. Ltd.
Overseas Shipholding Group, Inc.	Old ANR LLC	Pason Systems Inc.
Shandong Energy Australia Pty Ltd.	Toell Co., Ltd.	Ferrellgas Partners, L.P.
Reach Energy Berhad	Otto Energy Limited	Petroleos de Venezuela SA
Latina Offshore Holding Ltd.	Seapeak LLC	Pemex Project Funding Master Trust
North West Redwater Partnership, Inc.	Tengizchevroil Finance Co. SARL	Petroleos Mexicanos EPE
NextDecade Corporation.	Gulf South Pipeline Co. LLC	Vermilion Energy Inc.
ORLEN Capital AB	NeuRizer Ltd	Teekay Corporation Ltd.
Shell Midstream Partners LP	NorthWestern Energy Group, Inc.	Touchstone Exploration Inc.
ABL Group ASA	NorthWestern Corp.	Silver Elephant Mining Corp.
Bighorn Permian Resources LLC	Shell Plc	Colbun SA
Lianson Fleet Group Bhd.	Atlantic Power Corporation	AES Andes SA
Via Renewables, Inc.	Euronav Luxembourg SA	Petroleo Brasileiro SA
St1 Nordic Oy	MarkWest Energy Finance Corp.	Gansu Energy Chemical Co., Ltd.
Abu Dhabi Crude Oil Pipeline LLC	Hutchison Whampoa Finance [03/13] Ltd.	Compagnie de l'Odet SE
Altera Infrastructure LP	Jaiprakash Power Ventures Limited	CESC Limited
Golden Energy Offshore AS	Liquefied Natural Gas Limited	Sinopec Oilfield Service Corporation
Journey Energy Inc.	Gulf Keystone Petroleum Ltd.	PETRONAS Dagangan Berhad
ICD Sukuk Co. Ltd.	Transportadora de Gas del Peru SA	CEZ as
ICD Funding Ltd.	S.N.T.G.N. Transgaz SA	Petron Corp.
PrairieSky Royalty Ltd.	Anhui Hengyuan Coal Industry & Electricity Power Co., Ltd.	Dawson Geophysical Company
Jonah Energy LLC	PC Financial Partnership	ENN Natural Gas Co., Ltd.
CNOOC Finance [2014] ULC	Kapar Energy Ventures Sdn. Bhd.	An Hui Wenergy Co., Ltd.
Esentia Gas Enterprises S de RL de CV	TerraVest Industries Inc.	Guangdong Electric Power Development Co., Ltd.
AB Igrene	Phoenix Global Resources Ltd.	Shenzhen Energy Group Co., Ltd.
Parsley Energy, Inc.	Pakistan Petroleum Ltd.	Bestsun Energy Co., Ltd.
Maritime Link Financing Trust	XCD Energy Limited	Shenergy Co., Ltd.
GasLog Partners LP	Seitel, Inc.	Shanghai Dazhong Public Utilities (Group) Co., Ltd.
Sinopec Group Overseas Development [2014] Ltd.	Eastern Gas Transmission & Storage, Inc.	Shanxi Guoxin Energy Corp. Ltd.
Cubility AS	Refrigeration Electrical Engineering Corp.	The Great Eastern Shipping Company Limited
Saudi Electricity Global Sukuk Co. - 3	Condor Energies Inc.	Unicorn Capital Partners Ltd.
Redexis Gas Finance BV	ElectroMagnetic GeoServices ASA	Petmin Ltd.
Seplat Energy Plc	Macquarie Infrastructure Holdings, LLC	Tsakos Energy Navigation Limited
Ridgebury Crude Tankers LLC	Zephyr Energy Plc	Hosken Consolidated Investments Ltd.
Sabal Trail Transmission LLC	Molecular Energies Ltd.	African Rainbow Minerals Ltd.
Rockpoint Gas Storage Canada Ltd.	PT Energi Mega Persada Tbk	Lopez Holdings Corporation
Star Petroleum Refining Public Company Limited	JAKS Resources Berhad	Central Puerto SA
California Resources Corporation	Jiangxi Hongcheng Environment Co., Ltd.	RGC Resources, Inc.
Shelf Drilling Ltd.	Fujian Funeng Co., Ltd.	The Great Taipei Gas Corp.
Diamond S Shipping Group, Inc.	EnCana Holdings Finance Corp.	Samchully Co., Ltd.
Parsley Energy LLC	China National Chemical Corp., Ltd.	SGC Energy Co., Ltd.
TNB Western Energy Bhd.	Icahn Enterprises Finance Corp.	LX International Corp.
Aurora LPG Holding AS	Saturn Oil & Gas Inc.	Kukdong Oil & Chemicals Co., Ltd.
Trafigura Group Pte Ltd.	CNOOC Finance [2003] Ltd.	Korea Electric Power Corp.
EP Infrastructure as	PT Adaro Indonesia	HYUNDAI Corp.
Feishang Anthracite Resources Limited	GS Holdings Corp.	SUSCO Public Company Limited
Paragon Offshore Plc	Karoon Energy Ltd.	PT Bumi Resources Tbk
Sevan Drilling Ltd.	Huaibei Mining Holdings Co., Ltd.	PT Indomobil Sukses Internasional Tbk
HK Electric Investments & HK Electric Investments Ltd.	Romp petrol Rafinare SA	San Miguel Corporation
Cardinal Energy Ltd.	Glencore Funding LLC	Ugland Nordic Shipping AS

Fossil Fuel Laggards		
COMPANY		
Hermitage Offshore Services Ltd.	Akastor ASA	Zargon Oil & Gas Ltd.
BW LPG HOLDING PTE. LTD	Battalion Oil Corporation	Patterson-UTI Energy, Inc.
Redexis SAU	HighPoint Operating Corp.	Hokkaidenko Corp.
Cameron LNG LLC	Tethys Oil AB	Dagang NeXchange Berhad
Eastern Energy Gas Holdings LLC	Comet Ridge Limited	Hengyuan Refining Company Berhad
Sinopec Group Overseas Development (2013) Ltd.	AusNet Services Holdings Pty Ltd.	SP Corp. Ltd.
Jinneng Science & Technology Co., Ltd.	Kosmos Energy Ltd.	Wasco Berhad
Valero Energy Partners LP	Nippon Coke & Engineering Co., Ltd.	Sumatec Resources Bhd.
Borets Finance DAC	Refineria La Pampilla SAA	Genting Berhad
CNOOC Curtis Funding No. 1 Pty Ltd.	China Power International Development Limited	Petron Malaysia Refining & Marketing Bhd.
Offshore Drilling Holding SA	Mechel PAO	Boustead Holdings Berhad
Continental Wind LLC	Enel Distribucion Chile SA	Concordia Maritime AB
EP Energy Corporation	Hutchison Whampoa International (03/33) Ltd.	Viking Supply Ships AB
K&O Energy Group, Inc.	SouthGobi Resources Ltd.	Viking Supply Ships AS
Murphy Oil USA, Inc.	SFL Corporation Ltd.	Reach Subsea ASA
Madrilena Red de Gas Finance BV	EnLink Midstream LLC	DNO ASA
Jagged Peak Energy LLC	North American Construction Group Ltd.	TORM A/S
EER Finance, Inc.	NOVATEK JSC	Pengrowth Energy Corporation
Endeavor Energy Resources LP	Marine & General Berhad	Sinopec Shanghai Petrochemical Company Limited
REN Finance BV	Vedanta Resources Ltd.	Energia Group NI Holdings Ltd.
Dorian LPG Ltd.	Indraprastha Gas Limited	YPF SA
PT Saka Energi Indonesia	Shanghai Electric Power Co., Ltd.	Par Pacific Holdings, Inc.
Western Refining Logistics LP	Gulfsands Petroleum PLC	Subsea 7 SA
SK Incheon Petrochem Co., Ltd.	Lanka IOC Plc	YTL Corporation Berhad
SPP Infrastructure Financing BV	Direct Energie SA	Transocean Ltd.
Ardmore Shipping Corporation	Gaz Capital SA	FAR Limited
Rex International Holding Limited	Baytex Energy Corp.	Moeve SA
Aurizon Finance Pty Ltd.	Crew Energy Inc.	Wintershall Dea International GmbH
Aurizon Network Pty Ltd.	ConocoPhillips Co.	PT United Tractors Tbk
Gran Tierra Energy International Holdings GmbH	Hilcorp Energy I LP	TPI Polene Public Co. Ltd.
Smart Sand, Inc.	Shenzhen Gas Corp. Ltd.	Tipco Asphalt Public Co. Ltd.
Huaneng Hong Kong Capital Ltd.	Societatea Nationala de Gaze Naturale ROMGAZ SA	Tenaga Nasional Berhad
Velesto Energy Berhad	Shan Xi Hua Yang Group New Energy Co. Ltd.	SK Discovery Co. Ltd.
Trafigura Funding SA	New Hope Corporation Limited	S-Oil Corp.
TNB Northern Energy Bhd.	FortisAlberta, Inc.	Saipem SpA
Calumet, Incorporated	Shanxi Coal International Energy Group Co., Ltd.	Reliance Industries Ltd.
Expro Group Holdings N.V.	Bonavista Energy Corporation	HANJIN HEAVY INDUSTRIES & CONSTRUCTION HOLDINGS Co., Ltd.
Hutchison Whampoa Europe Finance (13) Ltd.	NuVista Energy Ltd.	Cydsa SAB de CV
Parsley Energy LP	Glencore Finance (Europe) Ltd.	Jardine Cycle & Carriage Limited
CNOOC Finance (2013) Ltd.	Weatherford International LLC	Banpu Public Company Limited
PBF Logistics LP	Corporacion de Reservas Estrategicas Productos Petroliferos	PT Astra International Tbk
Sinopec Capital Co., Ltd.	KNM Group Berhad	PT Astra Graphia Tbk
Sinopec Capital (2013) Ltd.	DNO North Sea Plc	First Philippine Holdings Corporation
EDC Finance DAC	Qatar Fuel-Woqod QSC	Expand Energy Corporation
Memorial Production Finance Corp.	Zhejiang Jiahua Energy Chemical Industry Co., Ltd.	Vine Energy Holdings LLC
Phillips 66 Partners LP	MODEC, Inc.	Valener Inc.
MC Finance Australia Pty Ltd.	Keyera Corp.	Shamara Petroleum Corp.
Odas Elektrik Uretim Sanayi Ticaret AS	Qatar Electricity & Water Co.	Vertex Energy, Inc.
Saudi Electricity Global Sukuk Co. - 2	China Huadian Corp., Ltd.	Mongolia Energy Corporation Limited
AES El Salvador Trust II	Nabors Industries, Inc.	United Energy Group Limited
EXLP Finance Corp.	Dorchester Minerals, L.P.	Productive Technologies Company Limited
Lonestar Resources America, Inc.	Vietnam National Petroleum Corp.	KunLun Energy Company Limited
Nine Energy Service, Inc.	PT Rukun Raharja Tbk	Yuan Heng Gas Holdings Limited

Fossil Fuel Laggards		
COMPANY		
Global Power Synergy Public Company Limited	Hongkong Electric Finance Ltd.	Up Energy Development Group Limited
Zhejiang Zheneng Electric Power Co., Ltd.	China Resources Power Holdings Co., Ltd.	Jardine Matheson Holdings Ltd.
SIBUR Securities DAC	Fuji Oil Co., Ltd. /5017/	Hopewell Holdings Ltd.
PTG Energy Public Co. Ltd.	Yangarra Resources Ltd.	Shougang Fushan Resources Group Limited
Indo Energy Finance II BV	Petrofac Ltd.	First Pacific Company Limited
SunCoke Energy Partners Finance Corp.	National Power Corp. (Philippines)	CITIC Limited
Magseis Fairfield ASA	International Transmission Co.	SBM Offshore NV
Viesgo Infraestructuras Energeticas SL	Edison SpA	SM Energy Company
Blue Racer Midstream LLC	Amerisur Resources Ltd.	OMV AG
Talos Production, Inc.	China Oilfield Services Limited	Henderson Land Development Company Limited
Wison Engineering Services Co. Ltd.	PT Indo Tambangraya Megah Tbk	Power Assets Holdings Limited
SAExploration Holdings, Inc.	First Gen Corporation	Jardine Strategic Ltd.
Rosneft International Finance Ltd.	PAA Finance Corp.	RWE AG
Mexico Generadora de Energia S de RL	Eterna Plc	Vallourec SA
Kelt Exploration Ltd.	Orsknefteorgsintez PJSC	Esso
Legacy Reserves LP	Perpetual Energy Inc.	Viridien
Pacific Drilling V Ltd.	Black Hills Power, Inc.	Toyo Kanetsu KK
Western Midstream Partners LP	EnLink Midstream Partners LP	Tokyo Gas Co., Ltd.
Constellation Oil Services Holding SA	PT Federal International Finance	TOA Oil Co., Ltd.
Hutchison Whampoa International 12 II Ltd.	BHP Billiton Finance BV	Taki Chemical Co., Ltd.
EP Energy as	Enka Insaat ve Sanayi AS	Taiheiyo Kouhatsu Inc.
Shelf Drilling Holdings Ltd.	NuStar Logistics LP	Sumitomo Corp.
CVR Refining LLC	Martin Midstream Partners L.P.	RS Energy KK
Gujarat Gas Ltd.	Paz Retail & Energy Ltd.	SINANEN Holdings Co., Ltd.
CVR Refining LP	Henan Zhongfu Industrial Co., Ltd.	Shikoku Electric Power Co., Inc.
Seven Energy International Ltd.	PT Sugih Energy Tbk	SAN-AI OBBLI Co., Ltd.
Geo Energy Resources Limited	Enbridge Energy Management LLC	Osaka Gas Co., Ltd.
ContourGlobal Power Holdings SA	Petronas Capital Ltd.	The Okinawa Electric Power Co., Inc.
Petrobras Global Finance BV	China Huaneng Group Co., Ltd.	Nippon Gas Co., Ltd. [8174]
MOL Group Finance SA	CMB.TECH NV	Mitsuuroko Group Holdings Co., Ltd.
UNIMOT SA	Spire Missouri Inc.	Mitsui Matsushima Holdings Co., Ltd.
Tesoro Logistics Finance Corp.	Natural Resource Partners LP	Mitsui & Co., Ltd.
COSL Finance [BVI] Ltd.	Tiandi Science & Technology Co., Ltd.	Mitsubishi Corp.
Kallpa Generacion SA	Beijing Jingneng Power Co., Ltd.	Mitani Corp.
SunCoke Energy Partners, L.P.	Oil & Gas Development Co. Ltd.	Meiwa Corp.
EP Energy LLC	Sala Corp.	Kyoei Tanker Co., Ltd.
Hi-Crush Inc.	Coterra Energy Operating Co.	The Kansai Electric Power Co., Inc.
Delek Logistics Partners LP	Socotherm SpA	Japan Oil Transportation Co., Ltd.
MPLX LP	Schlumberger Finance BV	Hokuriku Electric Power Co.
STEP Energy Services Ltd.	Amplitude Energy Limited	Hokkaido Gas Co., Ltd.
IndoStar Capital Finance Limited	Groupement d'Interet Economique ENGIE Alliance	Hokkaido Electric Power Co., Inc.
Ocean Yield AS	Offshore Oil Engineering Co., Ltd.	Hanwa Co., Ltd.
Sunoco LP	Public Service Company of New Mexico	Fuji Kosan Co., Ltd.
Novatek Finance DAC	Great River Energy	Daimaru Enawin Co., Ltd.
PT TBS Energi Utama Tbk	Shandong Energy Group Co., Ltd.	Cosmo Oil KK
Hutchison Whampoa Europe Finance [12] Ltd.	Zion Oil & Gas, Inc.	The Chugoku Electric Power Co., Inc.
Vier Gas Transport GmbH	Shizuoka Gas Co., Ltd.	Chubu Electric Power Co., Inc.
Zhongrong Xinda Group Co., Ltd.	Elwood Energy LLC	ITOCHU ENEX CO., LTD.
Sabine Pass Liquefaction LLC	Southern Power Co.	Channel Infrastructure NZ Limited
Summit Midstream Holdings LLC	Slb UK II Ltd.	Echelon Resources Limited
Floatel International Ltd.	Schlumberger SA	GL Limited
Sinopec Group Overseas Development [2012] Ltd.	China HK Power Smart Energy Group Limited	Woodside Energy Group Ltd.
Yancoal International Resources Development Co., Ltd.	Warren Resources, Inc.	Senex Energy Limited
Petrovietnam Gas JSC	TransCanada PipeLines Ltd.	Washington H. Soul Pattinson and Company Limited
Hutchison Whampoa International [12] Ltd.	Conoco Funding Co.	Santos Limited
CNOOC Finance [2012] Ltd.	Shanghai Datun Energy Resources Co., Ltd.	Oil Search Ltd.

Fossil Fuel Laggards		
COMPANY		
Independence Contract Drilling, Inc.	Hengli Petrochemical Co., Ltd.	Molopo Energy Limited
Talent Yield Investments Ltd.	China Petrochemical Corp.	Energy World Corp. Ltd.
CNPC General Capital Ltd.	Golar LNG Limited	Carnarvon Energy Limited
Grizzly Energy LLC	Hornbeck Offshore Services, Inc.	Ampol Limited
North Queensland Export Terminal Pty Ltd.	SK E&S Co., Ltd.	Origin Energy Limited
Dommo Austria GmbH	Bashneft PJSOC	Horizon Oil Limited
Schahin II Finance Co. (SPV) Ltd.	EWE AG	Pacific Energy Limited
Armour Energy Limited	Cal Dive I-Title XI, Inc.	Tullow Oil Plc
Baytex Energy (LP) Ltd.	Southern Kuzbass Coal Co. PJSC	Sasol Ltd.
Vantris Energy Berhad	Cheung Kong Infrastructure Finance (BVI) Ltd.	Harbour Energy Plc
Kinetic Development Group Limited	innogy Finance BV	Frontline Plc
Energy Resources LLC	Guizhou Panjiang Refined Coal Co., Ltd.	Hunting Plc
Sea Trucks Group Ltd.	Preem Holding AB	Petroceltic International Ltd. (Ireland)
Adani Total Gas Limited	Yanchang Petroleum International Limited	Capricorn Energy Plc
Viridian Group FundCo II Ltd.	PSEG Power LLC	Bisichi Plc
Teine Energy Ltd.	Hrvatska Elektroprivreda dd	Amec Foster Wheeler Ltd.
Diamondback Energy, Inc.	Saudi Electricity Co.	Advantage Energy Ltd.
EQM Midstream Partners, LP	Saudi Automotive Services Co.	VAALCO Energy, Inc.
Foresight Energy LP	Covia Holdings LLC	Suncor Energy Inc.
Welltec A/S	PT Buma Internasional Grup Tbk	PetroTal Corp.
Hutchison Whampoa International [11] Ltd.	Oil Refineries Ltd.	Obsidian Energy Ltd.
John Sevier Combined Cycle Generation LLC	Stedin Holding NV	Parkland Corporation
AmeriGas Finance LLC	Tecnicas Reunidas SA	Paramount Resources Ltd.
GasLog Ltd.	Valeura Energy Inc.	Lion Energy Corp.
PT ESSA Industries Indonesia Tbk	Egypt Kuwait Holding Co. SAE	Iron Bridge Resources, Inc.
Island Offshore Shipholding LP	Gestion Securite de Stocks Securite SA	Nova Scotia Power, Inc.
Frontline 2012 Ltd.	Washington Gas Light Co.	Glencore Canada Corp.
Fluxys SA	China Petroleum Engineering Corp.	Niko Resources Ltd.
Deep Drilling 1 Pte Ltd.	Grandblue Environment Co., Ltd.	Canacol Energy Ltd.
SPT Energy Group Inc.	Petrolina (Holdings) Public Ltd.	Maritime Electric Co. Ltd.
Phillips 66	PECO Energy Co.	TransGlobe Energy Corporation
IG Seismic Services Ltd.	Tamarack Valley Energy Ltd.	Enbridge Inc.
PBF Energy Inc.	Delta Oil & Gas, Inc.	American Biofuels, Inc.
PT ABM Investama Tbk	MarkWest Energy Partners LP	Simba Essel Energy, Inc.
Repsol Europe Finance SARL	Prairie Operating Co.	Fortis Inc.
PTT Global Chemical Plc	Whitecap Resources Inc.	Ensign Energy Services Inc.
Zamet SA	Houston American Energy Corp.	Calfrac Well Services Ltd.
Avance Gas Holding Ltd.	PEDEVCO Corp.	Bonterra Energy Corp.
Liberty Utilities Finance GP1	Crestwood Equity Partners LP	CARIBBEAN UTILITIES COMPANY, LTD.
Liberty Utilities Co.	Kinder Morgan Management LLC	Canadian Natural Resources Limited
Schlumberger Investment SA	Alliance Oil Co., Ltd.	Frontera Energy Corporation
Shaanxi Coal Industry Co., Ltd.	Strike Energy Limited	U.S. Energy Corp.
Samruk-Energy JSC	Oil India Limited	TETRA Technologies, Inc.
PT Golden-Energy Mines Tbk	Coal India Ltd.	Ranger Oil Corporation
THDC India Ltd.	China Aviation Oil (Singapore) Corp. Ltd.	Public Service Company of North Carolina, Inc.
SK Energy Co., Ltd.	Savanna Energy Services Corp.	PrimeEnergy Resources Corporation
BRISTOW GROUP INC.	North-Star International Co., Ltd.	PHI Aviation LLC
U.S. Silica Holdings, Inc.	Shanxi Coking Coal Energy Group Co., Ltd.	Otter Tail Corporation
Bumi Armada Berhad	Perdana Petroleum Berhad	Riley Exploration Permian, Inc.
Eastcomtrans LLP	Elion Energy Co., Ltd.	Key Energy Services, Inc.
Coal Energy SA	POSCO INTERNATIONAL Corp.	Nabors Industries Ltd.
Sidewinder Drilling LLC	Guanghui Energy Co., Ltd.	MGE Energy, Inc.
Enteq Technologies Plc	Taiwan Cogeneration Corp.	Range Resources Corporation
KOKS Finance DAC	Chandra Prabhu International Ltd.	Isramco, Inc.
Hoegh Evi Ltd.	Canvas Energy, Inc.	ION Geophysical Corporation
USA Compression Partners LP	Polskie Gornictwo Naftowe i Gazownictwo SA	Imperial Oil Limited
Origin Energy Finance Ltd.	APA Group	Hallador Energy Company
Ophir Energy Ltd. (United Kingdom)	QazaqGaz National Co. JSC	HollyFrontier Corp.

Fossil Fuel Laggards		
COMPANY		
Genel Energy Plc	Xcel Energy Inc.	Sabine Oil & Gas Corp.
Civitas Resources, Inc.	Peabody Energy Australia PCI Pty Ltd.	Weatherford International Plc
PXP Energy Corporation	SIBUR Holding PJSC	Delta Natural Gas Co., Inc.
Hibiscus Petroleum Berhad	ENGIE Energia Peru SA	Comstock Resources, Inc.
Mega Advance Investments Ltd.	Genesis Energy Limited	Chesapeake Utilities Corporation
WPX Energy, Inc.	Enel Generacion Piura SA	Berkshire Hathaway Energy Co.
Engie Energy India Pvt Ltd.	Delek Group Ltd.	Earthstone Energy, Inc.
Top Frontier Investment Holdings, Inc.	PetroChina Company Limited	Barnwell Industries, Inc.
FTS International, Inc.	Akenerji Elektrik Uretim AS	Abraxas Petroleum Corporation
Ningxia Baofeng Energy Group Co., Ltd.	Thunderbird Resources Equity, Inc.	Enservco Corporation
Indo Energy Finance BV	Magellan Midstream Partners, L.P.	Adams Resources & Energy, Inc.
Raffinerie Heide GmbH	Petro River Oil Corp.	Alliant Energy Corporation
Kvaerner ASA	NuStar Energy L.P.	WEC Energy Group, Inc.
CNPC (HK) Overseas Capital Ltd.	Oil States International, Inc.	The Williams Companies, Inc.
Pacific Drilling SA	Arrow Exploration Corp.	Williams Partners LP
Pacific Drilling Second-Lien Escrow Issuer Ltd.	Sonoro Energy Ltd.	Westmoreland Coal Co.
Golar LNG Partners LP	Northern Oil and Gas, Inc.	Evergy Kansas Central, Inc.
PTTEP Canada International Finance Ltd.	Birchcliff Energy Ltd.	Westcoast Energy, Inc.
AES Argentina Generacion SA	CU, Inc.	WGL Holdings, Inc.
Zhaikunai International BV	Basic Energy Services, Inc.	Marathon Oil Corporation
Hilong Holding Ltd.	Strata Power Corp.	Unit Corporation
Operateur de reseaux denergies SCRL	Ohio Valley Electric Corp.	Union Electric Co.
TOKAI Holdings Corp.	National Gas Transmission Plc	TC Energy Corporation
North Atlantic Drilling Ltd.	Pan American Energy SL	Tidewater Inc.
NGL Energy Partners LP	KeySpan Gas East Corp.	ETC Sunoco Holdings LLC
Madrilena Red de Gas SAU	Slovensky plynarensky Priemysel AS	Southwestern Public Service Co.
Schlumberger Holdings Corp.	Sanjel Corp.	South Jersey Industries, Inc.
ONICO SA	Abterra Ltd.	Schlumberger Limited
San Miguel Global Power Holdings Corp.	PT Bukit Asam Tbk	SCANA Corp.
CNOOC Finance (2011) Ltd.	Petronet Lng Limited	RPC, Inc.
Marathon Petroleum Corporation	San Diego Gas & Electric Co.	Rowan Cos. LLC
AmeriGas Partners, L.P.	BHP Nickel West Pty Ltd.	Repsol SA
Inner Mongolia Junzheng Energy & Chemical Group Co., Ltd.	Neova Oy	Puget Energy, Inc.
MJL Bangladesh Plc	State Oil Company of Azerbaijan Republic	TXNM Energy, Inc.
S.D. Standard ETC Plc	OMV Petrom SA	Public Service Company of Colorado
Energeticky a prumyslový holding as	Saudi Arabian Oil Co.	ConocoPhillips
Kinder Morgan Finance Co. LLC	Petroleos Del Peru - Petroperu SA	PPL Corporation
Yancoal Australia Ltd.	National Gas & Industrialization Co.	Goodrich Petroleum Corporation
SPP - distribucia as	Murphy USA Inc.	Parker Drilling Company
Avangaad Berhad	National Company KazMunayGas JSC	PacifiCorp
CNOOC Energy Technology & Services Ltd.	Helmerich & Payne International Drilling Co.	OGE Energy Corp.
e-netz Suedhessen AG	Gas Malaysia Berhad	Oceaneering International, Inc.
Sadovaya Group	Bison Merger Sub I LLC	Occidental Petroleum Corporation
Volstad Subsea AS	EXMAR NV	Northern States Power Co.
Olympic Subsea KS	Empresas Publicas de Medellin ESP	Noble Energy, Inc.
NET4GAS sro	The East Ohio Gas Co.	Nevada Power Co.
Petroreconcavo SA	Duke Energy Carolinas LLC	National Fuel Gas Company
Banpu Power Public Co. Ltd.	State Power Investment Corp., Ltd.	NACCO Industries, Inc.
Jiangsu Guoxin Corp. Ltd.	W&T Offshore, Inc.	Murphy Oil Corporation
TPI Polene Power Public Company Limited	Targa Pipeline Finance Corp.	ALLETE, Inc.
Eurasia Drilling Co. Ltd.	CNOOC Limited	Loews Corporation
Pacific Radiance Ltd.	Sinopec Kantons Holdings Limited	LG&E & KU Energy LLC
Harvest Operations Corp.	Compania General de Combustibles SA	Enbridge Energy Partners LP
Genesis Energy Finance Corp.	Guangxi Guiguan Electric Power Co., Ltd.	IPALCO Enterprises, Inc.
IPIC GMTN Ltd.	Torrent Power Limited	World Kinect Corporation
Strad Inc.	ONGC Videsh Ltd.	Helmerich & Payne, Inc.
Nortegas Energia Distribucion SA	INA-Industrija nafte dd	Hawaiian Electric Industries, Inc.
Tian Lun Gas Holdings Limited	KazTransOil JSC	Global Marine, Inc.
Hutchison Whampoa International (10) Ltd.	Korea East-West Power Co., Ltd.	Exxon Mobil Corporation

Fossil Fuel Laggards		
COMPANY		
Zhaikmunai Finance BV	Galp Energia SGPS SA	EQT Corporation
PBF Holding Co. LLC	White Energy Company Limited	EOG Resources, Inc.
Reliance Holding USA, Inc.	Henan Shenhua Coal Industry & Electricity Power Corp. Ltd.	Kinder Morgan Energy Partners LP
Bumi Investment Pte Ltd.	The LEADCORP, Inc.	Energen Corp.
Xinjiang Guanghui Industry Investment (Group) Co., Ltd.	Alliance Resource Partners LP	Duke Energy Corporation
PHBS Ltd.	Hutchison Whampoa Finance (CI) Ltd.	DTE Electric Co.
China Suntien Green Energy Corporation Limited	PT Perusahaan Gas Negara Tbk	Delmarva Power & Light Co.
Serba Dinamik Holdings Berhad	Bangchak Sriracha Public Company Limited	Columbia Energy Group
North Eastern Electric Power Corp. Ltd.	Southern Company Gas Capital Corp.	Chevron Corporation
North Battleford Power LP	Red Oak Power LLC	Cleco Corporate Holdings LLC
Storm Resources Ltd.	Korea National Oil Corp.	CH Energy Group, Inc.
Hero Asia Investment Ltd.	Ultrapar Participacoes SA	Coterra Energy Inc.
Delek US Energy, Inc.	Vectren Corp.	Buckeye Partners, L.P.
Z Energy Ltd.	ORLEN SA	BHP Group Limited
Tourmaline Oil Corp.	Devon Energy Corporation.	Black Hills Corporation
PRIO SA	Devon Financing Corp. ULC	Manila Electric Company
Apetra SA	NV Energy, Inc.	Berry Petroleum Co. LLC
International Seaways, Inc.	Enterprise Products Operating LLC	Bay State Gas Co.
Medco Strait Services Pte Ltd.	QEP Resources, Inc.	Atmos Energy Corporation
Georgian Oil & Gas Corp. Ltd.	Binhai Investment Company Limited	Southern Company Gas
Energia Group Ltd.	PT Golden Eagle Energy Tbk	Apache Corp.
Kreuz Holdings Ltd.	Sino Oil and Gas Holdings Limited	Apache Finance Canada LLC
TerraCom Limited	88 Energy Limited	Anadarko Petroleum Corporation
Ashdod Refinery Ltd.	MMA Offshore Limited	Hess Corporation
Izdemir Enerji Elektrik Uretim AS	Luenmei Quantum Co., Ltd.	Icahn Enterprises LP
OxyRock LP	Shanxi Lanhua Sci-Tech Venture Co., Ltd.	American Electric Power Company, Inc.
Binh Son Refining & Petrochemical Co. Ltd.	Ontario Power Generation, Inc.	
Total excluded companies		1916