

2011 Greenhouse Gas Emissions Inventory Report

Prepared for:

Overseas Private Investment Corporation

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FINAL REPORT

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INTRODUCTION

BACKGROUND

Pace Global performed an independent analysis to quantify the greenhouse gas (GHG) emissions from Overseas Private Investment Corporation (OPIC)-supported projects. GHGs are atmospheric compounds that trap the sun's infrared radiation or heat. Excess quantities of GHGs have been linked to numerous impacts on the global climate and the environment. As a result, programs are being developed and implemented on regional and local levels to address and reduce GHG emissions from human-generated sources.

OPIC annually commissions an inventory of GHG emissions from the projects it supports that are or have the potential to be significant emitters. This report, prepared by Pace Global, presents the analysis undertaken to quantify GHG emissions from OPIC-supported projects that were active as of September 30, 2012 and emit over 25,000 short tons of carbon dioxide equivalent (CO_{2e}) annually. "Active" projects are defined as all insurance contracts in force and all guaranty and direct loans with an outstanding principal balance. This is the fifth consecutive year Pace Global has prepared this report on behalf of OPIC.

BASELINE INVENTORY DEVELOPMENT

In order to assess trends in GHG emissions from OPIC supported projects, a baseline inventory of GHG emissions from OPIC projects was conducted for the 2007 calendar year. To develop the initial baseline inventory, Pace Global conducted a screen of all OPIC-supported projects to develop an initial list presented in Table 1 from the complete project list for the 2007 calendar year which is presented in Appendix A – 2007 Active Projects. The scope of the analysis included direct emissions from on-site emissions sources associated with operations of OPIC-supported projects from the energy, oil and gas, transportation, mining, manufacturing, and construction sectors as these typically are the sectors with the most associated direct CO_{2e} emissions. Excluded were indirect emissions related to purchased electricity or steam, chemical releases or the past construction of projects. Projects in the finance/banking, insurance, and service sectors were excluded because the majority of the emissions from projects in these sectors were attributed to electricity usage. After further analysis of environmental data and project descriptions for projects in other sectors, Pace Global narrowed this initial list to a short list of projects that had the potential to emit greater than 100,000 short tons CO_{2e} per annum from direct fossil fuel combustion. The maximum Potential to Emit (maximum PTE) was then estimated for this short list of projects based on available project information, which varied by project, but included a combination of fuel consumption data, the amount of electricity generated (in kWh), generating capacity, relative project sizes, and an assumed operating capacity of 8,000 hours per year (unless otherwise noted). OPIC and Pace Global solicited verification from the individual project applicants to support the accuracy of the estimates and assumptions and to ascertain 2007 operational emissions data.

The 2007 inventory leveraged project applicant-provided information in cases where Pace Global received responses to the requests for data. For projects where applicant feedback was not received at the time of reporting for the 2007 year inventory report (March 2009), Pace Global used the projects' maximum PTE. Pace Global incorporated a five-percent buffer to accommodate emissions from projects that emit less than 100,000 short tons CO_{2e} per year. The baseline 2007 OPIC inventory emission estimate for projects active in OPIC's portfolio as of June 30, 2008 was **51,949,179** short tons of CO_{2e}.

In 2009, the original baseline emissions estimate reported in 2008 was increased by 1,566,685 short tons to account for the additional 51 percent share of the Various Egypt Subsidiaries (Apache) project which mistakenly reported its emissions in relation to its equity share of the project (49 percent) for the baseline year. Since OPIC requires that 100 percent of emissions be accounted for, regardless of the project applicant's equity share, the additional project emissions were added to the inventory. The discrepancy was rectified and reported in 2009 to ensure consistency with OPIC's GHG accounting methodology.

2008-2010 INVENTORY DEVELOPMENT

For 2008, Pace Global screened the GHG emissions from OPIC-supported projects. Pace Global incorporated a five-percent buffer to account for emissions from projects active on September 30, 2009 that emit less than 100,000 short tons CO_{2e}. Total GHG emissions for 2008 projects equaled **35,097,140** short tons of CO_{2e}. The 2007 and 2008 emissions estimates were revised and reported in the 2009 inventory to account for the Apache reporting error, discussed in the previous section of this report.

The 2009 inventory applied a similar screening methodology to that of 2008. However, for 2009, OPIC began to report emission estimates for projects that emit 25,000 or more short tons of CO_{2e} and therefore an additional threshold of 25,000 short tons of CO₂ was added. The five-percent buffer that was applied in 2007 and 2008 was modified to take into consideration the projects that emit between 25,000 and 100,000 short tons of CO₂, which was 0.2 percent of the total emissions in 2009. Therefore, Pace Global incorporated a 4.8-percent buffer to accommodate any emissions that were not accounted for in OPIC's inventory of projects emitting greater than 100,000 short tons of CO_{2e}. Total GHG emissions for projects in 2009 equaled **33,952,754** short tons of CO_{2e}.

The 2010 inventory also used a screening method similar to that employed in previous years. OPIC reported emission estimates for projects that emitted 25,000 short tons or more short tons of CO_{2e}. Pace Global incorporated a 4.7-percent buffer to accommodate the additional emissions that were not accounted for in the inventory. Total GHG emissions for 2010 projects equaled **34,543,566** short tons of CO_{2e}.

2011 INVENTORY DEVELOPMENT

Pace Global repeated this process for the 2011 calendar year with a list of projects that were active as of September 30, 2012 which is presented in Appendix B – 2011 Active Projects. All projects that had been determined to be below the 25,000 short ton threshold in prior annual inventories were excluded in the screen for the 2011 initial list. Included in the initial list were projects that were new to the list in 2011 and projects that became active in fiscal year 2012. Pace Global then narrowed this list to a short list of projects that had the potential to exceed the threshold of 25,000 short tons of CO_{2e} per annum. To ensure accurate estimates, OPIC and Pace Global solicited additional information and verified project-specific assumptions from the projects' individual applicants. Applicants were given 30 days to provide additional project details. When applicants did not respond or feedback was unavailable, the 2010 estimate was used to reflect 2011 emissions. Similar to the methodology used in the 2010 inventory, Pace Global incorporated an approximate 4.6-percent buffer to accommodate minimal emissions that were not accounted for in the inventory. The estimated total for OPIC's 2011 GHG inventory is **34,130,763** short tons of CO_{2e}.

This report presents the GHG emissions results for OPIC projects in calendar year 2011. Because this inventory is based on projects active as of September 30, 2012 and additional time is needed to solicit information and feedback from project applicants, especially their fuel consumption data which as of October 2012 is only available for calendar year 2011, there is a time lag in reporting emissions.



Next year, Pace Global will review and update the information pertaining to emissions attributable to OPIC-supported projects for the 2012 calendar year and identify and report differences from the emissions estimates presented in the initial inventory report.

METHODOLOGY

2011 INITIAL SCREEN

For 2011, Pace Global screened all OPIC-affiliated active projects from the complete active project list provided by OPIC (See Appendix B – 2011 Active Projects for the complete list of projects analyzed). The analysis considered emissions data from the direct combustion of fossil fuels from projects that have the potential to emit over 25,000 short tons of CO_{2e} per year. Emissions associated with electricity usage, industrial processes, and/or refrigerants were excluded. Based on the criteria below, Pace Global developed a short list of projects (See Table 1) that warranted a more detailed analysis to determine whether the given projects exceeded the threshold for inclusion. The initial screen relied on the following criteria.

- Projects that were active as of September 30, 2012
- Projects that were determined, through the additional analysis performed in inventories from 2007-2010, to emit or have the potential to emit over 25,000 short tons of CO_{2e} per year
- New projects to which OPIC is actively supporting were added to the active project portfolio in FY 2012 in the energy, oil and gas, transportation, mining, manufacturing, and construction sectors, these sectors were chosen because projects that are of significant size in these sectors have the potential to directly emit over 25,000 short tons of CO_{2e} per year

Projects in the finance/banking, insurance, and service sectors were omitted from the short list because the majority of the emissions from projects in these sectors are attributable to electricity usage, which falls outside the scope of this inventory.

After discussing and reviewing project details with OPIC, Pace Global identified 21 projects that could reach or surpass the emissions threshold for inclusion in the inventory. Pace Global vetted and finalized emission calculations for these projects and included them in the 2011 inventory.

INITIAL SHORT LIST

Table 1: Projects Active in 2011 Inventory and Previously Active Projects

Project	Country	Sector	Tier
<i>Currently Active Projects Included in 2007 Baseline Inventory</i>			
Adapazari Elektrik Uretim	Turkey	Energy - Power	Tier A
AES Jordan	Jordan	Energy - Power	Tier A
AES Nigeria	Nigeria	Energy - Power	Tier A
Baku-Tblisi-Ceyhan Pipeline	Azerbaijan	Energy - Oil and Gas	Tier B
Dominica Electricity Services	Dominican Republic	Energy - Oil and Gas	Tier C
E.P. InterOil	Papua New Guinea	Energy - Oil and Gas	Tier B
Foxtrot International	Cote d'Ivoire	Energy - Oil and Gas	Tier B
Gaza Private Generating PLC	Gaza	Energy - Power	Tier A
Gebze Elektrik Uretim	Turkey	Energy - Power	Tier A
Grenada Electricity Services (WRB)	Grenada	Energy - Power	Tier A
Isagen SA	Colombia	Energy - Power	Tier A
Izmir Elektrik Uretim	Turkey	Energy - Power	Tier A
Joshi Technologies	Columbia	Energy - Oil and Gas	Tier C
Latin American Power III	Latin America	Fund	Fund
Lukoil RPK Vysotsk	Russia	Energy - Oil and Gas	Tier B
NEPC Consortium Power	Bangladesh	Energy - Power	Tier A
Paiton Energy	Indonesia	Energy - Power	Tier A
Termovalle SCA	Colombia	Energy - Power	Tier A
Various Egypt Subsidiaries (Apache)	Egypt	Energy - Oil and Gas	Tier B
West African Gas Pipeline	Ghana	Energy - Oil and Gas	Tier B
<i>No Longer Active Projects Included in 2007 Baseline Inventory</i>			
Accroven SRL	Venezuela	Energy - Oil and Gas	Tier B
Doga Enerji	Turkey	Energy - Power	Tier A
Equate Petrochemical	Kuwait	Energy - Oil and Gas	Tier B
Habibullah Coastal Power	Pakistan	Energy - Power	Tier A
Jorf Lasfar Energy	Morocco	Energy - Power	Tier A
Jose Lindley	Peru	Manufacturing	Tier C
Natural Gas Liquids II Financing	Nigeria	Energy - Oil and Gas	Tier B
Pakistan Water & Power Development Authority	Pakistan	Energy - Power	Tier A
Trakya Elektrik Uretim ve Ticaret	Turkey	Energy - Power	Tier A
Wilpro Energy Services (El Furrial)	Venezuela	Energy - Oil and Gas	Tier B
Wilpro Energy Services (Pigap)	Venezuela	Energy - Oil and Gas	Tier B
<i>Projects Included in 2011 Inventory but Not Active in 2007</i>			
CGLOB Astarta Zhadanivka Kyiv LLC	Ukraine	Agriculture	Tier C
Citadel Glass Works	Egypt	Manufacturing	Tier C
Contour Global - Togo	Togo	Energy - Power	Tier A

Note: Tier C projects were active not included in the 2007 baseline inventory as the threshold for inclusion in the inventory was only lowered to 25,000 short tons in 2009.

Source: OPIC and Pace Global.

TIER A (POWER GENERATION) PROJECT INVENTORY ESTIMATES

Tier A projects are fossil fuel-fired, power generation projects that were on the short list and that emitted more than 100,000 short tons of CO_{2e}. In 2011, twelve projects were identified as active Tier A projects and out of these, eleven had emissions above the threshold (Thermovalle SCA operated for only 100 hours and hence had emissions below the threshold).

The maximum PTE for Tier A projects is based on an operating capacity of 8,000 hours per year (unless otherwise noted), fuel consumption data (where available), the projects' power generating capacity (MW_e), and/or specific estimates of GHG emissions provided by the project applicant (where available). While actual fuel consumption data yields the most accurate emissions estimates, this information was not available for eight Tier A projects. Therefore, when calculating emissions based on generation capacity alone, Pace Global derived estimates by calculating emissions based on capacity (MW_e), and used a conversion efficiency factor obtained from the *International Finance Corporation's Guidance Note 3*. Other standard assumptions required to perform inventory calculations were obtained primarily from *The Climate Registry's General Reporting Protocol*. A complete list of sources used to produce this analysis is included in the annotated bibliography in Appendix E – Annotated Bibliography. The data used in the calculations as well as the maximum PTE calculations are detailed in Appendix C – Project Emissions Calculations. Details on conversion factors are presented in Appendix D – Conversions and Sources.

TIER B PROJECT INVENTORY ESTIMATES

Tier B projects are defined as projects in the oil and gas, mining, transportation, manufacturing, construction, or other sectors which have the potential to emit GHG emissions above 100,000 short tons per year.

Six other projects on the 2011 'short list' were identified as active Tier B projects. Oil and gas sector project emissions are based on throughput, fuel consumption data, and/or GHG emissions data from similar facilities. GHG emissions from manufacturing projects are based on the energy requirements from similar facilities and/or processed volumes. All maximum PTE estimates assume an operating capacity of 8,000 hours per year, unless otherwise noted. When emissions data from similar facilities was necessary to perform a calculation, the data was obtained from credible, published information sources. A complete list of data sources used to produce this analysis is included in Appendix E – Annotated Bibliography. The data used in the calculations as well as the estimated calculations are detailed in Appendix C – Project Emissions Calculations and Appendix D – Conversions and Sources.

TIER C PROJECT INVENTORY ESTIMATES

Tier C projects are those projects that emitted less than 100,000 short tons of CO_{2e}, but more than 25,000 short tons of CO_{2e}. In 2011, two projects were classified as active Tier C projects.

The initial screen for Tier C projects excluded the following:

- Projects already known to exceed 100,000 short tons CO_{2e} from the baseline inventory analysis
- Projects previously determined to be under the threshold of 25,000 short tons CO_{2e}.

Pace Global performed inventory calculations for shortlisted projects based on project descriptions as well as published data and emissions factors.

RESULTS

OPIC's 2011 GHG Inventory is an estimated 34,130,763 short tons CO_{2e}, based on applicant feedback and the maximum PTE when applicant comments were unavailable.

Table 2: 2011 OPIC GHG Emissions Inventory Estimates by Project

Tier A Projects										
Project Name	Location	Description	Capacity / Throughput	Fuel Type	Maximum PTE ^[1] (short tons CO2)	2007 Sponsor Reported Emissions Baseline (short tons CO2)	FINAL 2008 Emissions (short tons CO2)	FINAL 2009 Emissions (short tons CO2)	FINAL 2010 Emissions (short tons CO2)	FINAL 2011 Emissions (short tons CO2)
Adapazari Elektrik Uretim	Turkey	Combined Cycle	777 MW	Natural Gas	2,706,499	2,106,754	2,106,754	2,441,657	2,426,053	2,309,241
AES Jordan ^[2]	Jordan	Combined Cycle	10,103,603 MMBtu/yr	Natural Gas & Diesel	1,288,809	N/A	590,940	1,318,130	1,434,569	1,184,010
AES Nigeria	Nigeria	Engine-Based Power Generation	270 MW	Natural Gas	1,603,307	1,166,398	1,341,157	988,271	949,754	949,754
Contour Global - Togo	Togo	Engine-Based Power Generation	100 MW	HFO & natural gas	581,133	Not Active	Not Active	Not Active	Below Threshold	46,561
Doga Enerji	Turkey	Combined Cycle	180 MW	Natural Gas	816,057	740,762	740,762	672,014	655,981	Not Active
Gaza Private Generating PLC	Gaza	Combined Cycle	136.4 MW	Natural Gas	487,658	293,804	303,535	325,926	228,627	405,262
Gebze Elektrik Uretim	Turkey	Combined Cycle	1554 MW	Natural Gas	5,412,998	4,121,923	4,121,923	4,794,979	4,833,330	4,535,511
Grenada Electricity Services (WRB)	Grenada	Engine-Based Power Generation	18 MW	Diesel (Fuel Oil)	104,604	114,571	121,156	141,127	135,237	134,371
Habibullah Coastal Power	Pakistan	Combined Cycle	140 MW	Natural Gas	487,658	447,880	447,880	Not Active	Not Active	Not Active
Isagen SA	Columbia	Combined Cycle	300 MW	Natural Gas	696,654	203,010	Below Threshold	300,706	305,181	305,181
Izmir Elektrik Uretim	Turkey	Combined Cycle	1554 MW	Natural Gas	5,412,998	4,694,380	4,694,380	4,300,376	4,739,787	4,824,511
Jorf Lasfar Energy	Morocco	Steam Boiler	1356 MW	Coal	14,268,496	14,268,496	Not Active	Not Active	Not Active	Not Active
NEPC Consortium Power	Bangladesh	Engine-Based Power Generation	313,105 MMBtu/yr	Natural Gas & HFO	383,159	245,795	343,581	255,734	297,068	297,068
Paiton Energy	Indonesia	Steam Boiler	1220 MW	Coal	7,938,380	9,553,044	9,553,044	9,624,125	9,854,076	10,045,869
Pakistan Water & Power Authority ^[3]	Pakistan	Combined Cycle	150 MW	Natural Gas	522,490	522,490	522,490	283,937	283,937	Not Active
Termovalle SCA ^[4]	Columbia	Combined Cycle	205 MW	Natural Gas	714,070	Below Threshold	Below Threshold	223,983	223,983	Below Threshold
Trakya Elektrik Uretim	Turkey	Combined Cycle	478 MW	Natural Gas	1,818,912	1,747,956	Not Active	Not Active	Not Active	Not Active

^[1] Note that the maximum PTE was calculated for projects that had detailed data as well as for those with sparse data. For those projects with minimal data available, the maximum PTE may be less than the 2007 emissions for which more information became available from the project sponsors.

^[2] Net energy generated increased from 10,103,603 in 2008 to 22,536,748 MMBtu in 2009. This generation increase was responsible for the emissions increase.

^[3] 2009 emissions are significantly lower due to fewer reported operating hours.

^[4] 2009 emissions are significantly higher due to increased reported operating hours.

Tier B Projects											
Project Name	Location	Description	Capacity / Throughput	Fuel Type	Maximum PTE ^[1] (short tons CO2)	2007 Sponsor Reported Emissions Baseline (short tons CO2)	FINAL 2008 Emissions (short tons CO2)	FINAL 2009 Emissions (short tons CO2)	FINAL 2010 Emissions (short tons CO2)	FINAL 2011 Emissions (short tons CO2)	
Accroven SRL	Venezuela	NGL Facility	800 MMscfd	Natural Gas	998,677	998,677	445,832	Not Active	Not Active	Not Active	
Baku-Tblisi-Ceyhan Pipeline	Azerbaijan	Crude Oil Pipeline	1 million barrels crude oil	Natural Gas & Diesel	699,034	707,672	707,672	787,577	723,214	671,605	
E.P. Interoil	Papua New Guinea	Crude Oil Refinery	32,500 barrels/day	Crude Oil	802,469	392,296	103,247	79,709 ^[5]	75,928 ^[5]	74,985 ^[5]	
Equate Petrochemical	Kuwait	Petrochemical Facility	1540 MMBtu/hr	Natural Gas	720,573	720,573	680,311	Not Active	Not Active	Not Active	
Foxtrot International ^[2]	Cote d'Ivoire	Gas Extraction & Pipeline	100 MMscfd	Natural Gas	270,804	104,484	104,484	104,484	Below Threshold	27,746 ^[5]	
Lukoil Rpk Vysotsk ^[3]	Russia	Oil and petroleum export terminal	14 MM tons per annum	Crude Oil & Products	107,184	70,767 ^[5]	70,767 ^[5]	76,339 ^[5]	97,117 ^[5]	91,143 ^[5]	
Natural Gas Liquids II Financing	Nigeria	NGL Facility	19.5 MMscfd	Natural Gas	390,806	244,048	244,048	Not Active	Not Active	Not Active	
Various Egypt Subsidiaries (Apache) ^[4]	Egypt	Oil/Gas Extraction & Processing	29,934,702 bbl/yr & 89,910 MMscf/yr	Oil & Natural Gas	2,429,543	3,071,932	3,244,189	3,294,654	3,465,842	4,438,554	
West Africa Gas Pipeline	Ghana	Gas Compression & Transmission	190 MMscfd	Natural Gas	244,728	Not Active	Not Active	244,728	91,451 ^[5]	86,617 ^[5]	
Wilpro Energy Services (El Furrial)	Venezuela	Gas Compression	60 MW	Natural Gas	289,106	289,106	289,106	Not Active	Not Active	Not Active	
Wilpro Energy Services (Pigap)	Venezuela	Gas Compression	100 MW	Natural Gas	507,923	571,090	571,090	Not Active	Not Active	Not Active	

^[1] Note that the maximum PTE was calculated for projects that had detailed data as well as for those with sparse data. For those projects with minimal data available, the maximum PTE may be less than the 2007 emissions for which more information became available from the project sponsors.

^[2] In 2010, Foxtrot operated for a minimal period of time and thus had corresponding GHG emissions below the established threshold.

^[3] Lukoil has the potential to emit over 100,000 tons CO2 annually, although emissions have been reported below this level to date.

^[4] In 2007 and 2008, Apache reported their emissions in relation to their equity share of the project (49%). OPIC accounts 100% of a project's emissions regardless of equity share. As a result, emissions data for 2007 and 2008 will more than double in comparison to the project sponsor reported data in order to calibrate the inventory according to OPIC standards.

^[5] Project emissions have been estimated to be less than 100,000 short tons but the project has the potential to emit greater than 100,000 short tons per year.

<u>Tier C Projects</u>					
Project Name	Location	Description	FINAL 2009 Emissions (short tons CO2)	FINAL 2010 Emissions (short tons CO2)	FINAL 2011 Emissions (short tons CO2)
CGLOB Astarta Zhadanivka Kyiv LLC	Ukraine	Agriculture	Not Active	Not Active	Below Threshold
Citadel Glass Works	Egypt	Manufacturing	Not Active	Not Active	Not Active
Dominca	Dominican Republic	Oil	50,084	50,084	50,084
Jose Lindley	Peru	Manufacturing	25,000	25,000	Not Active
Joshi Technologies / Parko Services	Colombia	Oil	30,398	57,826	43,564

<u>Totals</u>					
	2007 Sponsor Reported Emissions Baseline (short tons CO2)	FINAL 2008 Emissions (short tons CO2)	FINAL 2009 Emissions (short tons CO2)	FINAL 2010 Emissions (short tons CO2)	FINAL 2011 Emissions (short tons CO2)
Tier A:	40,227,263	24,887,602	25,670,965	26,367,582	25,037,339
Tier B:	7,170,645	6,460,746	4,587,491	4,453,552	5,390,650
Tier C:	-	-	105,482	132,910	93,648
Subtotal:	47,397,908	31,348,348	30,363,938	30,954,044	30,521,637
Latin America Power III Funds:^[1]	2,077,500	2,077,500	2,077,500	2,077,500	2,077,500
5% Buffer for Additional Sources:	2,473,770	1,671,292	-	-	-
Buffer for Additional Sources:^[2]	-	-	1,511,316	1,512,022	1,531,626
TOTAL:	51,949,179	35,097,140	33,952,754	34,543,566	34,130,763

^[1] Per agreement between Latin American Power III and OPIC, the Fund agreed to “not make an investment in a Portfolio Company if after such investment, the assets and operations of all Portfolio Companies then held by the Fund would emit (in the aggregate and on a calendar year basis) in excess of 2,077,500 short tons CO2 as calculated in accordance with the IPCC”.

^[2] Buffer for Additional Sources plus Tier C equals 5% of the inventory for projects above the 100,000 ton threshold

Source: Pace Global

APPENDIX A – 2007 ACTIVE PROJECTS

ACTIVE PROJECTS

This list presents projects that were screened for the 2007 inventory.

PROJECT NAME	COUNTRY	SECTOR
FINANCE		
TB-ANDREW & WILLIAMSON FRESH PRODUCE	MEXICO	AGRI
FLAMA DE ORO S.A.	GUATEMALA	AGRI
FLAMA DE ORO, S.A.	GUATEMALA	AGRI
BESCH INT'L, INC/SAN MARTIN FARMS CIA. LTDA.	ECUADOR	AGRI
BRUCH SIDE FARMS AGROPECUARIA DO BRAZIL LTDA	BRAZIL	AGRI
EL SALADERO UY S.R.L.	URUGUAY	AGRI
DMITROV DAIRY FARMS, CJSC	RUSSIA	AGRI
ROTA INTERNATIONAL EXPORTING, LLC.	GUINEA-BISSAU	AGRI
LA FUTURA, S.A.	GUATEMALA	AGRI
WBC-FORESTRATE, INC	LATIN AMERICA REGIONAL	AGRI
WBC-SOUTHERN VALLEY FRUIT & VEGETABLE, INC.	MEXICO	AGRI
WBC-MARICULTURA DEL NORTE, S.DE R.L. DE C.V.	MEXICO	AGRI
CSA-REY BANANO DEL PACIFICO C.A.	ECUADOR	AGRI
LEAWOOD INVESTMENTS INC/BARRIEFIELD LLC	COLOMBIA	AGRI
CELLCOM TELECOMMUNICATIONS INC.	LIBERIA	COMM
SABLE-CELLCOM TELECOMMUNICATIONS INC	LIBERIA	COMM
RURALFONE, INC.	BRAZIL	COMM
ZAO STAR NETWORKS	RUSSIA	COMM
CAFR-MIC TANZANIA LIMITED (TZS)	TANZANIA	COMM
CAFR-MIC TANZANIA LIMITED (USD)	TANZANIA	COMM
CASIA-PACIFIC BANGLADESH TELECOM LIMITED	BANGLADESH	COMM
CPAK-PAKISTAN MOBILE COMMUNICATION(PMCL)	PAKISTAN	COMM
AGROTERMINAL LTD.	RUSSIA	CONS
ATLANTIC GROUP (UGANDA) LTD.	UGANDA	CONS
CUSTOMIZED CONSTRUCTION, INC.	AFGHANISTAN	CONS
INTERNATIONAL DEVELOPMENT TRUST IRAQ	IRAQ	CONS
ROUMEL DEVELOPMENT CORPORATION 2	BOSNIA- HERZEGOVINA	CONS
INTERNATIONAL VILLAGE SH.P.K.	KOSOVO	CONS
GHP(HONDURAS)LLC/GLOBAL HOUSING DEVELOPMENT	HONDURAS	CONS
MASKAN, INC. (TRANCHE A)	AFGHANISTAN	CONS
AFCO-KANDAHAR VALLEY, LLC	AFGHANISTAN	CONS
ROUMEL DEVELOPMENT CORPORATION	BOSNIA- HERZEGOVINA	CONS
JOPA VILLAS, LLC	KENYA	CONS

PROJECT NAME	COUNTRY	SECTOR
AMEBRASIL CONSTRUCOES LIMITADA	BRAZIL	CONS
WBC-MONOLITHIC HOUSING S.A.	MEXICO	CONS
SIGMA INTERNATIONAL CONSTRUCTION LLC.	IRAQ	CONS
CENTRAL EAST AFRICA RAILWAYS COMPANY LIMITED	MALAWI	CONS
CONDOMINIOS RIVERSIDE ETAPA II, S.A.	COSTA RICA	CONS
SOUTH AFRICA FINANCING ENTERPRISE	SOUTH AFRICA	CONS
VISTAS BELIZE LTD	BELIZE	CONS
CORREDOR DE DESENVOLVIMENTO DO NORTE S.A.R.L	MOZAMBIQUE	CONS
SOCIEDAD CONCESIONARIA VESPUCIO NORTE EXPRES	CHILE	CONS
EMERGENCY LIQUIDITY FACILITY, L.P.	LATIN AMERICA REGIONAL	FIN
AEGIS INVESTMENT COMPANY	ALL OPIC COUNTRIES	FIN
CITIBANK, N.A.(RUSSIA/CIS LENDING FACILITY)	NIS REGIONAL	FIN
MIDDLE EAST INVESTMENT INITIATIVE,INC.	GAZA	FIN
CITIBANK, N.A.(PAKISTAN ON LENDING FACILITY)	PAKISTAN	FIN
HONDURAS HOMES, S.A.	HONDURAS	FIN
AFGHAN GROWTH FINANCE LLC	AFGHANISTAN	FIN
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	FIN
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	FIN
BANCO LAFISE HONDURAS, S.A.	HONDURAS	FIN
CMFI-K-REP BANK	KENYA	FIN
FIRST MORTGAGE COMPANY UCO, LLC	ARMENIA	FIN
HFA ZAMBIA LIMITED	ZAMBIA	FIN
INTER-MAC INTERNATIONAL, INC.	HONDURAS	FIN
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	FIN
MIDDLE EAST INVESTMENT INITIATIVE, INC.	GAZA	FIN
NHCAPSTONE HOLDING GROUP LIMITED	LEBANON	FIN
RUSSIAN ASSET MBS, S.A.	RUSSIA	FIN
TAMEER MICROFINANCE BANK LIMITED	PAKISTAN	FIN
THE COOPERATIVE HOUSING FOUNDATION LEBANON	LEBANON	FIN
W3-BANCO FINANCIERO DEL PERU	PERU	FIN
W3-RIZAL COMMERCIAL BANKING CORP	PHILIPPINES	FIN
W3-SEKERBANK A.S.	TURKEY	FIN
MEII-AL RAFAH BANK	WEST BANK	FIN
MEII-BANK OF PALESTINE	WEST BANK	FIN
COUNTERPART INTERNATIONAL, INC.	PHILIPPINES	FIN
CMFI-TAMWEELCOM	JORDAN	FIN
THE COOPERATIVE HOUSING FOUNDATION	MEXICO	FIN
CALVERT SOCIAL INVESTMENT FOUNDATION	ALL OPIC COUNTRIES	FIN
CMFI-FINANCIERA SOLIDARIA (FINSOL)	HONDURAS	FIN
CMFI-UGANDA FINANCE TRUST	UGANDA	FIN
CMFI-PRIDE UGANDA	UGANDA	FIN
CMFI-CENTER FOR AGRICULTURE & RURAL DEVELOP	PHILIPPINES	FIN
LIBERIAN ENTERPRISE DEVELOPMENT FINANCE CO.	LIBERIA	FIN

PROJECT NAME	COUNTRY	SECTOR
CMFI-UGANDA MICROFINANCE LIMITED	UGANDA	FIN
CONSERVATION INTERNATIONAL FOUNDATION	ALL OPIC COUNTRIES	FIN
NCB-DENIZBANK PURPOSE B	TURKEY	FIN
CMFI-APOYO INTEGRAL, S.A. DE C.V.	EL SALVADOR	FIN
CMFI-FUNDACION INTEGRAL COMUNITARIA (FINCA)	MEXICO	FIN
BANCO LAFISE HONDURAS, S.A.	HONDURAS	FIN
WBC-RABITABANK OJSC	AZERBAIJAN	FIN
THE COOPERATIVE HOUSING FOUNDATION	ROMANIA	FIN
SOA KREDIT NON-BANKING CREDIT ORGANIZATI LLC	AZERBAIJAN	FIN
THE COOPERATIVE HOUSING FOUNDATION	ROMANIA	FIN
MICROFINANCE SECURITIES XXEB SA JUNIOR	ALL OPIC COUNTRIES	FIN
PROCREDIT, S.A.	MOLDOVA	FIN
NCB-NBD BANK, JOINT-STOCK COMPANY	RUSSIA	FIN
CMFI-KAZMICROFINANCE LLC	KAZAKHSTAN	FIN
RKU FRANCHISING LIMITED	RUSSIA	FIN
W2-FINANSBANK A.S.	TURKEY	FIN
GLOBAL PARTNERSHIPS MICROFINANCE FUND2006LLC	LATIN AMERICA REGIONAL	FIN
CPAK2-KASHF FOUNDATION	PAKISTAN	FIN
PROCREDIT BANK (TRANCHE 2)	UKRAINE	FIN
W2-ANADOLUBANK	TURKEY	FIN
W2-AYSA FINANS	TURKEY	FIN
CHF/L-FRANSABANK S.A.L.	LEBANON	FIN
BANCO LAFISE, S.A. (TRANCHE 3)	COSTA RICA	FIN
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	FIN
WBC-GEORGIAN LEASING COMPANY, LLC	GEORGIA	FIN
CSI LATINA FINANCIAL, INC.	MEXICO	FIN
GREENWICH FINANCIAL SERVICES, L.L.C.	RUSSIA	FIN
MICROFINANCE SECURITIES XXEB SA SENIOR	ALL OPIC COUNTRIES	FIN
EMERGING MARKETS CONSULTING (PRIVATE) LTD.	PAKISTAN	FIN
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	FIN
WBC-NBD BANK	RUSSIA	FIN
CHF/L-JAMAL TRUST BANK S.A.L.	LEBANON	FIN
WBC-OJSC COMMERCIAL BANK "SDM-BANK"	RUSSIA	FIN
CASIA-LANKA ORIX LEASING COMPANY LTD.	SRI LANKA	FIN
SOA KREDIT NON-BANKING CREDIT ORGANIZATI LLC	AZERBAIJAN	FIN
W3-CREDICORP BANK, S.A.	PANAMA	FIN
NCB-DENIZBANK A.	TURKEY	FIN
GHANA HOME LOANS (FUND 1) LIMITED	GHANA	FIN
W2-BANK CENTERCREDIT	KAZAKHSTAN	FIN
WBC-ZAO DELTALEASING	RUSSIA	FIN
WBC-BANK OF GEORGIA	GEORGIA	FIN
WBC-INDEPENDENT LEASING, LLC	RUSSIA	FIN
WBC-SOTSIALNIY GORODSKOY BANK (SOTSGORBANK)	RUSSIA	FIN

PROJECT NAME	COUNTRY	SECTOR
BANCO LAFISE S.A.	COSTA RICA	FIN
W-BANCO FINANCIERA COMERCIAL HONDURENA	HONDURAS	FIN
PROCREDIT BANK	UKRAINE	FIN
MICROFINANCE SECURITIES XXEB SA MEZZANINE	ALL OPIC COUNTRIES	FIN
W2-FIRST INVESTMENT BANK BULGARIA	BULGARIA	FIN
W2-TEKSTIL BANKASI, A.S.	TURKEY	FIN
UMBRALCAPITAL, S.A.P.I. DE C.V.	MEXICO	FIN
NCB2 -OYAK BANK A.S.	TURKEY	FIN
NCB2-TURK EKONOMI BANKASI A.S.(T.E.B.)	TURKEY	FIN
NCB2-BANK ASYA KATALIM, A.S.	TURKEY	FIN
W-FIRST INVESTMENT BANK	BULGARIA	FIN
CSA-BANCO REGIONAL, S.A.	PARAGUAY	FIN
NCB-OJSC SIBACADEMBANK	RUSSIA	FIN
CCA2-BANCA PROMERICA, S.A.	COSTA RICA	FIN
CCA2-BANCO IMPROSA, S.A.	COSTA RICA	FIN
CCA2-BANCO MERCANTIL, S.A.	HONDURAS	FIN
SMALL BUSINESS CREDIT BANK (TRANCHE A)	RUSSIA	FIN
SMALL BUSINESS CREDIT BANK (TRANCHE B)	RUSSIA	FIN
CSA-BANCO PROCREDIT ECUADOR	ECUADOR	FIN
NCB3-LOCKO BANK	RUSSIA	FIN
NCB3-TRANSCAPITAL BANK JSC	RUSSIA	FIN
W2-BANCO DEL PAIS, S.A.	HONDURAS	FIN
W2-PROBUSINESSBANK	RUSSIA	FIN
W3-BANCO PINE, S.A.	BRAZIL	FIN
W3-BANCO REFORMADOR, S.A.	GUATEMALA	FIN
CASIA-BRAC	BANGLADESH	FIN
CASIA-SKS MICROFINANCE PRIVATE LTD.	INDIA	FIN
CHOUS-BANCO DE LA PRODUCCION S.A.	NICARAGUA	FIN
NCB3-BANCO PINE S.A.	BRAZIL	FIN
W2-ALLIANCE BANK	KAZAKHSTAN	FIN
NCB3-CENTER-INVEST BANK JSC	RUSSIA	FIN
CPAK-ORIX LEASING PAKISTAN LIMITED	PAKISTAN	FIN
CLEB-BANQUE LIBANO-FRANCAISE S.A.L.	LEBANON	FIN
BAN-CREDITO INMOBILIARIO S.A. DE C.V.	MEXICO	FIN
BANCO LAFISE, S.A. (TRANCHE 2)	COSTA RICA	FIN
NCB2-BANCO MERCANTIL DO BRASIL S.A.	BRAZIL	FIN
W2-SIBACADEMBANK	RUSSIA	FIN
W2-TURK EKONOMI BANK	TURKEY	FIN
CLOSED JOINT STOCK COMPANY DELTALEASING	RUSSIA	FIN
NCB3-ROSEUROBANK	RUSSIA	FIN
INTERNATIONAL MORTGAGE BANK	UKRAINE	FIN
NCB2-TURK EKONOMI BANKASI A.S. PURPOSE B	TURKEY	FIN
W-OYAK BANK	TURKEY	FIN
W3-TURKIYE GARANTI BANKASI AS	TURKEY	FIN

PROJECT NAME	COUNTRY	SECTOR
NCB3-BANK CENTER CREDIT JSC	KAZAKHSTAN	FIN
CNIS-JSC KAZKOMMERTSBANK	KAZAKHSTAN	FIN
CNIS-JSC HALYK BANK	KAZAKHSTAN	FIN
CHOUS-BANCO FINANCIERA COMMERCIAL HONDURENA	HONDURAS	FIN
NCB2 -BANK TURAN ALEM	KAZAKHSTAN	FIN
W2-OYAK BANK A.S.	TURKEY	FIN
NCB2-JSC PROMSVYAZBANK	RUSSIA	FIN
W2-BANCO ATLANTIDA	HONDURAS	FIN
PROCREDIT HOLDING A.G.	ALL OPIC COUNTRIES	FIN
W2-JSC BANK TURAN ALEM	KAZAKHSTAN	FIN
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	FIN
W2-AKBANK T.A.S.	TURKEY	FIN
ZAO EUROPLAN	RUSSIA	FIN
CHOUS-BANRURAL S.A.	GUATEMALA	FIN
CLEB2-BANK AUDI SAL-AUDI SARADAR GROUP	LEBANON	FIN
NCB3-ALLIANCE BANK JSC	KAZAKHSTAN	FIN
NCB3-ATF BANK JSC	KAZAKHSTAN	FIN
REFORMA BLN-BACKED I	MEXICO	FIN
CLEB-BANKMED S.A.L.	LEBANON	FIN
CLEB-BYBLOS BANK S.A.L.	LEBANON	FIN
BLUEORCHARD MICROFINANCE SECURITIES I LLC	ALL OPIC COUNTRIES	FIN
TRADE BANK OF IRAQ	IRAQ	FIN
ZAO COMMERCIAL BANK DELTACREDIT	RUSSIA	FIN
ZAO EUROPLAN	RUSSIA	FIN
HOUSING FOR HIV, INC.	SOUTH AFRICA	FIN
PT. PADI MURNI INDONESIA	INDONESIA	MFR
ELLCOTT DREDGES IRAQ, LLC	IRAQ	MFR
NAMGEM TRADING BVI LIMITED	NAMIBIA	MFR
PALCO SP.ZO.O.	POLAND	MFR
TB-WISENBAKER BUILDING SERVICES, LTD.	BRAZIL	MFR
ZAO SOLNTSE MEXICO	RUSSIA	MFR
PURPLE RHINO IMPORTS, INC.	SOUTH AFRICA	MFR
NATURA BEVERAGE LLC	CAMEROON	MFR
DESARROLLO DE RIO PACORA SA	PANAMA	MFR
DESARROLLO DE RIO PACORA SA	PANAMA	MFR
GOLDEN CYPRESS WATER CO. LTD.	PHILIPPINES	MFR
ZAO NUMOTECH-SPEKTR	RUSSIA	MFR
RAYMOND DE VENEZUELA, C.A.	VENEZUELA	MFR
WESTSTAR PRECISION, INC.	COSTA RICA	MFR
NATURA BEVERAGE, LLC	CAMEROON	MFR
MAGNUM MACHINING INCORPORATED	MEXICO	MFR
QWO JOINT STOCK COMPANY	AFGHANISTAN	MFR
ADOBERIA SAHEL, S.A.	MALI	MFR
V G ENTERPRISES, INC.	RUSSIA	MFR

PROJECT NAME	COUNTRY	SECTOR
CASAMAR MAURITIUS, LTD./CASAMAR INDIAN OCEAN	MAURITIUS	MFR
SERVICIO GRAFICOS QUIPUS	BOLIVIA	MFR
BAKU OIL TOOLS, LTD.	AZERBAIJAN	MFR
DOMES INTERNATIONAL, INC.	ASIA REGIONAL	MFR
SAFI APPAREL CORPORATION	AFGHANISTAN	MFR
CAMAS GHANA INC.	GHANA	MFR
CPAK2-ENGRO VOPAK TERMINAL LTD	PAKISTAN	MFR
NUMOTECH, INC.	RUSSIA	MFR
AFRICAN-AMERICAN TRADING COMPANY, INC.	GHANA	MFR
RAYMOND DE VENEZUELA, C.A.	VENEZUELA	MFR
PRODUCTORA DE PAPELES SA (SUBORDINATED DEBT)	COLOMBIA	MFR
WBC-PREFERRED BRANDS INTERNATIONAL, LLC	INDIA	MFR
ZAO NYPRO	RUSSIA	MFR
SWEETWATER PAKISTAN (PRIVATE) LIMITED	PAKISTAN	MFR
QWO JOINT STOCK COMPANY	AFGHANISTAN	MFR
ACAI DO AMAPA AGROINDUSTRIAL LTDA.	BRAZIL	MFR
SANTE GMT PRODUCTS LTD.	GEORGIA	MFR
WBC-PREFERRED BRANDS INTERNATIONAL, LLC	INDIA	MFR
LAGRAY CHEMICAL COMPANY LTD	GHANA	MFR
MOUNTAIN PASTURES HOLDINGS LLC	AFGHANISTAN	MFR
WBC-INTERFARMA TIBBI MALZEMELER SANAYI VE TI	TURKEY	MFR
CSA-CORPORACION JOSE R. LINDLEY, SA-2	PERU	MFR
WBC-CORPORATIVO PAPELERO Y DE SUMINISTROS BA	MEXICO	MFR
GOLDEN SIERRA PARTNERS, LLC	ESTONIA	MFR
WBC-DELTA PLASTIK ENDUSTRISI A.S.	TURKEY	MFR
WBC-KELLY GRAINS CORPORATION S.R.L.	MOLDOVA	MFR
ABI GROUP LTD.	AFGHANISTAN	MFR
WBC-SFC ENTEGRE ORMAN URUNLERI SANAYI VE TIC	TURKEY	MFR
WBC-JSC POLIGRAF LAND	RUSSIA	MFR
PREFABRICADOS Y MODULARES DE MONTERREY(PYMM)	MEXICO	MFR
PHYTO-RIKER PHARMACEUTICALS LTD.	GHANA	MFR
CPAK-LUCKY CEMENT LIMITED	PAKISTAN	MFR
PRODUCTORA DE PAPELES SA (PROPAL)	COLOMBIA	MFR
CPAK-D.G.KHAN CEMENT COMPANY LIMITED	PAKISTAN	MFR
CAFR-MIDDLE EAST COMPLEX FOR ENGINEERING	JORDAN	MFR
CSA-CORPORACION JOSE R. LINDLEY, S.A.	PERU	MFR
COMPANIA MINERA PIMENTON SA	CHILE	MINE
BRAZILIAN EMERALDS,INC.	BRAZIL	MINE
ADVANCED CENTRAL GAS COMPANY LIMITED	JORDAN	OIL
BRAVO ENERGY MEXICO SRL DE CV	MEXICO	OIL
PARKO SERVICES, S.A.	COLOMBIA	OIL
BRAVO ENERGY ARGENTINA SCA	ARGENTINA	OIL
PT. TUCAN PUMPCO SERVICES INDONESIA	INDONESIA	OIL
JOSHI TECHNOLOGIES INTERNATIONAL, INC.	COLOMBIA	OIL

PROJECT NAME	COUNTRY	SECTOR
BRAVO ENERGY MEXICO SRL DE CV	MEXICO	OIL
GOLDHAM PTY LTD.T/A KALAHARI GAS CORPORATION	BOTSWANA	OIL
E.P. INTEROIL, LTD.	PAPUA NEW GUINEA	OIL
RPK-VYSOTSK "LUKOIL-II"	RUSSIA	OIL
WILPRO ENERGY SERVICES (PIGAP II) LTD.	VENEZUELA	OIL
WILPRO ENERGY SERVICES (EL FURRIAL) LIMITED	VENEZUELA	OIL
ACCROVEN SRL	VENEZUELA	OIL
NATURAL GAS LIQUIDS (II) FINANCING COMPANY	NIGERIA	OIL
MATH HYDRO POWER (PVT) LTD.	SRI LANKA	POWER
E+CO, INC.	HONDURAS	POWER
TRIANGLE GENERAL CONTRACTORS, INC.	KOSOVO	POWER
AES JORDAN PSC	JORDAN	POWER
PAITON ENERGY COMPANY	INDONESIA	POWER
JORF LASFAR ENERGY COMPANY	MOROCCO	POWER
ADAPAZARI ELEKTRIK URETIM LTD. SIRKETI	TURKEY	POWER
TRAKYA ELEKTRIK	TURKEY	POWER
NEPC CONSORTIUM POWER LTD.(HARIPUR)	BANGLADESH	POWER
DOGA ENERJI	TURKEY	POWER
IZMIR ELEKTRIK URETIM LTD SIRKETI	TURKEY	POWER
GEBZE ELEKTRIK URETIM LTD SIRKETI	TURKEY	POWER
TERMOBARRANQUILLA, S.A.	COLOMBIA	POWER
PAITON ENERGY COMPANY	INDONESIA	POWER
AMERICAN WOOL-CASHMERE, INC.	AFGHANISTAN	SVC
INTERCOMP CJSC	RUSSIA	SVC
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	SVC
DEXTER SAFETY & INDUSTRIAL PRODUCTS, INC.	MEXICO	SVC
RAPID MAIL COMPANY LIMITED	BELIZE	SVC
GILBERTO J.M.GONZALEZ/DBA/FERRETERIA MORALES	NICARAGUA	SVC
GLOBAL DESIGN, S.A.	PANAMA	SVC
PRINCETON HEALTHCARE	BRAZIL	SVC
INSTITUTO CULINARIO SANTA LUCIA,S.A.	NICARAGUA	SVC
IBS HOLDINGS, LLC	AFGHANISTAN	SVC
SUBWAY RUSSIA, LLC	RUSSIA	SVC
LIVING WATER INTERNATIONAL	KENYA	SVC
ADMINISTRADORA DE INVERSIONES PEGGY, S.A.	GUATEMALA	SVC
ABAMEDIA, L.P.(TRANCHE A)	RUSSIA	SVC
MEDPHARM, INC.	ETHIOPIA	SVC
S&N PUMP AFRICA, LDA	ANGOLA	SVC
GEOSURVEY INTERNATIONAL LLC	KENYA	SVC
THREE PAPAS, INC.	RUSSIA	SVC
QSI INTERNATIONAL SCHOOL OF TBILISI	GEORGIA	SVC
NH SERVICOS DE SINALIZACAO LTDA.	BRAZIL	SVC
INTERNATIONAL COMMUNITY SCHOOL LIMITED	GHANA	SVC
ISTANBUL INTERNATIONAL COMMUNITY SCHOOL (B)	TURKEY	SVC

PROJECT NAME	COUNTRY	SECTOR
MAJESTIC GROUP KOREA, LTD.	KOREA (SOUTH)	SVC
TIS LTD.	UZBEKISTAN	SVC
INTERNET GABON, SA	GABON	SVC
AMERICAN EMBASSY SCHOOL OF LUSAKA	ZAMBIA	SVC
THREE PAPAS, LLC	RUSSIA	SVC
WESTWOOD INTERNATIONAL SCHOOL	BOTSWANA	SVC
WBC-ZAO AIRES	RUSSIA	SVC
WINNER GROUP UKRAINE, INC.	UKRAINE	SVC
AMERICAN INTERNATIONAL SCHOOL SYSTEMS, INC.	PAKISTAN	SVC
WBC-VALLARTA VISION Y MISION A.C.	MEXICO	SVC
AMERICAN WOOL-CASHMERE, INC.	AFGHANISTAN	SVC
RB-AMERICAN COOPERATIVE SCHOOL OF TUNIS	TUNISIA	SVC
SALVATIERRA DESARROLLOS URBANOS, S.A. DE C.V	MEXICO	SVC
AMERICAN INTERNATIONAL SCHOOL OF ABUJA	NIGERIA	SVC
WBC-COMERCIAL LAEISZ, S.A. DE C.V.	HONDURAS	SVC
NEW YORK PIZZA CO. LTD.	RUSSIA	SVC
ISTANBUL INTERNATIONAL COMMUNITY SCHOOL, INC.	TURKEY	SVC
WBC-ZAO AIRES	RUSSIA	SVC
WBC-ATLANTIC GROUP LIMITED	UKRAINE	SVC
CNIS-IKEA	RUSSIA	SVC
FIXED RATE FUNDING & LIQUIDITY LTD (HWD SPA)	ALGERIA	SVC
TAYL INVESTORS GROUP LIMITED	AFGHANISTAN	TOUR
MONGOLIAN RESORTS XXK	MONGOLIA	TOUR
MALIKA HOTEL BUKHARA, LLC	UZBEKISTAN	TOUR
DESARROLLOS DE LOS SUENOS, S.A.	ARGENTINA	TOUR
MERCURY INVESTMENTS LIMITADA	MOZAMBIQUE	TOUR
GAMETRACKERS MANAGEMENT LTD (NYATI LODGE)	MOZAMBIQUE	TOUR
HERMITAGE HOSPITALITY FRANCHISING LIMITED	RUSSIA	TOUR
M/N BUTLER MIMARLAR ARASTIRMA TASARI LTD.	TURKEY	TOUR
COMPANIA GENERAL DE COMERCIO E INDUSTRIA SA	ARGENTINA	TOUR
SOM OTELCILIK VE TURIZM TICARET A.S.	TURKEY	TOUR
TANRUSS INVESTMENT LTD	TANZANIA	TOUR
TANRUSS INVESTMENT LTD	TANZANIA	TOUR
ARMENIA HOTEL COMPLEX CLOSED JSC	ARMENIA	TOUR
JOINT STOCK COMPANY HOTEL TBILISI	GEORGIA	TOUR
IZMIR INTERNATIONAL HOTEL AS	TURKEY	TOUR
SOM OTELCILIK VE TURIZM TICARET A.S.	TURKEY	TOUR
MORUMBY HOTEIS LTDA.	BRAZIL	TOUR
AMERICAN MONOLITH LTD	GEORGIA	TRAN
RED CARRETERAS DE OCCIDENTE, S. DE RL DE CV	MEXICO	TRAN
TRANSNATIONAL AUTOMOTIVE GROUP-CAMEROON S.A.	CAMEROON	TRAN
PACIFIC SUBSEA SAIPAN 2	THAILAND	TRAN
PACIFIC SUBSEA SAIPAN 3	THAILAND	TRAN
PACIFIC SUBSEA SAIPAN, INC.	THAILAND	TRAN

PROJECT NAME	COUNTRY	SECTOR
DAYSTAR AIRWAYS LTD (DBA NEVIS EXPRESS)	ST. CHRISTOPHER & NEVIS	TRAN
DAYSTAR AIRWAYS	ST. CHRISTOPHER & NEVIS	TRAN
NORTH AMERICAN FLOAT PLANE SERVICE SAC	PERU	TRAN
LODOM SP.ZO.O-FACILITY B	POLAND	TRAN
PACIFIC INTERNATIONAL HOLDINGS, INC.	GEORGIA	TRAN
CORPORACION QUIPORT S.A.	ECUADOR	TRAN
TARSIAN & BLINKLEY LLC	AFGHANISTAN	N/A
ABC.R.O., INC	EUROPE/EURASIA	N/A
MASKAN, INC. (Tranche B)	AFGHANISTAN	N/A
BESCH INT'L, INC/SAN MARTIN FARMS CIA. LTDA.	ECUADOR	N/A
GLOBAL RAILROAD LEASING, LLC	BRAZIL	N/A
LIVING WATER INTERNATIONAL	KENYA	N/A
BAGRAM FRUIT PACKING COMPANY	AFGHANISTAN	N/A
GAMA LTD	GEORGIA	N/A
SPORTS INTERNATIONAL BILKENT FITNESS VE SPOR	TURKEY	N/A
BRAZILIAN EMERALDS,INC.	BRAZIL	N/A
COMPANIA GENERAL DE COMERCIO E INDUSTRIA SA	ARGENTINA	N/A
BIURO PROJEKTOWANIA SYSTEMOW CYFROWYCH S.A.	POLAND	N/A
BAJA TRANSPORTATION/BAJA SALT	EL SALVADOR	N/A
DARA SALAM REAL ESTATE DEVELOPERS	GHANA	N/A
UNIGESTION HOLDING S.A. (digicel Haiti)	HAITI	N/A
WEND-REY RESTAURANTS LTD	MEXICO	N/A
GLOBAL RAILROAD LEASING, LLC	BRAZIL	N/A
FARO DE AQUA SA DE C.V.	MEXICO	N/A
ASIAN CREDIT FUND CREDIT COOP LLC	KAZAKHSTAN	N/A
OOO AIR STRUCTURES AMERICAN TECHNOLOGIES	RUSSIA	N/A
V-TRAC HOLDINGS Ltd	VIETNAM	N/A
SHORE OVERSEAS AZERBAIJAN	AZERBAIJAN	N/A
THE POWERSOURCE GROUP LLC	PHILIPPINES	N/A
XTREME CINEMAS, SRL De C.V./iehc, Inc	MEXICO	N/A
CLOSED JOINT STOCK COMPANY shvydko-ukraine 2	UKRAINE	N/A
LEMNA DE MEXICO S.A. De C.V.	MEXICO	N/A
CLOSED JOINT STOCK COMPANY shvydko-ukraine 1	UKRAINE	N/A
CENTURY 21 RUSSIA	RUSSIA	N/A
PAKISTAN MORTGAGE GUARANTY TRUST	PAKISTAN	N/A
GAME VIEWERS LTD / GAME TRACKERS (botswana)ltd	BOTSWANA	N/A
TIGER MACHINERY COMPANY LLC	RUSSIA	N/A
INTERNATIONAL VILLAGE PRISTINA	KOSOVO	N/A
MICROFINANCE INTERNATIONAL CORPORATION	LATIN AMERICA REGIONAL	N/A
CNIS-OJSC RG BRANDS	KAZAKHSTAN	N/A
DEAMAR NIGERIA LLC	NIGERIA	N/A

PROJECT NAME	COUNTRY	SECTOR
TEKFENBANK	TURKEY	N/A
XTREME CINEMAS S.DE RI/XTREME DEL PONIENTE	MEXICO	N/A
BANCO UNO SA	PANAMA	N/A
BAN-FINANCIERA COMPARTAMOS S.A.	MEXICO	N/A
GLOBAL RAILROAD LEASING, LLC	BRAZIL	N/A
MEDYCYNA RODZINNA S.A.	POLAND	N/A
AFGHANISTAN RENEWAL FUND, LTD	AFGHANISTAN	N/A
ZAO MS-SPETSTELEKOM	RUSSIA	N/A
RIO VERDE, S.A.	NICARAGUA	N/A
ZAO ASTON	RUSSIA	N/A
GUATEMALA MORTGAGE CORPORATION	GUATEMALA	N/A
SIRIUS WIRELESS, LTD	NIGERIA	N/A
WBC-NEWCOM LTD	LATIN AMERICA REGIONAL	N/A
DODSON-LINDBLOM HYDRO POWER PRIVATE LTD	INDIA	N/A
NCB2-FINANSBANK A.S.	TURKEY	N/A
CAFR-MILLICOM GHANA LTD	GHANA	N/A
TECNOQUAT S.A.	GUATEMALA	N/A
ABSOLUT BANK	RUSSIA	N/A
CITIBANK N.A. (al-mansour automotive co)	EGYPT	N/A
CNIS-OAO NIZHEKAMSKNEFTEKHIM (nknk)	RUSSIA	N/A
TAVL LIMITED (hyatt regency kabul)	AFGHANISTAN	N/A
DENIZBANK ISTANBUL	TURKEY	N/A
LKI, INTERNATIONAL	NAMIBIA	N/A
CE LUZON GEOTHERMAL POWER CO	PHILIPPINES	N/A
HIDROELECTRICA RIO HONDO S.A.	GUATEMALA	N/A
PUERTO QUETZAL POWER LLC	GUATEMALA	N/A
EMPRESA DE TELECOMMUNICATIONS NUEVATEL SA	BOLIVIA	N/A
IRAQ MIDDLE MARKET FACILITY - Tranche B	IRAQ	N/A
CMS ENSENADA S.A.	ARGENTINA	N/A
LIMA AIRPORT PARTNERS S.R.L	PERU	N/A
LIVING WATER INTERNATIONAL (ghana)	GHANA	N/A
TNT PRODUCTIONS INTERNATIONAL INC	KAZAKHSTAN	N/A
INFINITY	NICARAGUA	N/A
FOURSAN	JORDAN	N/A
CEMACO	GUATEMALA	N/A
MILLICOM (CITIBANK)	TANZANIA	N/A
WBC-ICS PRIME CAPITAL	MOLDOVA	N/A
BANK POSITIF KREDIT	TURKEY	N/A
AL-QUDS BANK	WEST BANK	N/A
INDEPENDENT LEASING LLC	RUSSIA	N/A
CMFI (CITIBANK) PHILIPPINES	PHILIPPINES	N/A
STACK GROUP – SAFE DATA SERVICES	RUSSIA	N/A
SANGHVI MOTORS	INDIA	N/A

PROJECT NAME	COUNTRY	SECTOR
INSURANCE		
Inversiones Agropecuarias, S.A.	NICARAGUA	AGRI
Farmer George Limited	GHANA	AGRI
Granton Safaris CC	SOUTH AFRICA	AGRI
BAGRAM FRUIT PACKING COMPANY	AFGHANISTAN	AGRI
Finca La Cruz	ARGENTINA	AGRI
Ministry of Water Resources	IRAQ	AGRI
Bagram Fruit Packing Company	AFGHANISTAN	AGRI
International Foundation of Hope	AFGHANISTAN	AGRI
El Saladero, UY SRL	URUGUAY	AGRI
Seminole S.A.	NICARAGUA	AGRI
Siberian Farms L.L.C.	RUSSIA	AGRI
Finca Calle Larga, Calle Large Vieja	ARGENTINA	AGRI
El Saladero, UY SRL	URUGUAY	AGRI
N/A	GUINEA-BISSAU	AGRI
Best Value Zambia Limited	ZAMBIA	AGRI
ZAO VG Enterprises Inc	RUSSIA	AGRI
Desarrollo Industrial bioacuatico SA (dibsa)	ECUADOR	AGRI
Camánica SA	NICARAGUA	AGRI
VietnamNet Media Joint Stock Company	VIETNAM	COMM
Ministry of Interior Affairs of the Republic of Serbia	SERBIA	COMM
Brasil Telecom, S.A.	BRAZIL	COMM
KATEL Joint Venture	KYRGYZ REPUBLIC	COMM
teconvi SA	BRAZIL	COMM
Ministry of Interior	MACEDONIA	COMM
Ven World Telecom CA	VENEZUELA	COMM
Ruralfone do Brasil, Ltda.	BRAZIL	COMM
Ruralfone do Brasil, Ltda.	BRAZIL	COMM
Ruralfone do Brasil, Ltda.	BRAZIL	COMM
Ruralfone do Brasil, Ltda.	BRAZIL	COMM
Ruralfone do Brasil, Ltda.	BRAZIL	COMM
Ruralfone do Brasil, Ltda.	BRAZIL	COMM
Ruralfone do Brasil, Ltda.	BRAZIL	COMM
AXS Bolivia S.A.	BOLIVIA	COMM
Netmaster Communications S.R.L.	ROMANIA	COMM
Caicos Television Holdings Ltd.	TURKS & CAICOS ISLANDS	COMM
VietnamNet Media Joint Stock Company	VIETNAM	COMM
AFCO - Kandahar Valley, LLC	AFGHANISTAN	CONS
Mutual Ventures Limited	TANZANIA	CONS
Administradora de Inversiones Peggy, S.A.	GUATEMALA	CONS
S.C. Empire Tower S.R.L.	ROMANIA	CONS
Open Joint Stock Company Terminal	RUSSIA	CONS
Southern Coastal Properties Nicaragua, S.A., c/o Fernando	NICARAGUA	CONS
Ministry of Water Resources	IRAQ	CONS

PROJECT NAME	COUNTRY	SECTOR
Ministry of Finance of the Democratic Republic of Congo	CONGO	CONS
Ministry of Finance of the Democratic Republic of Congo	CONGO	CONS
ARC Construction Company, LLC	AFGHANISTAN	CONS
Enterprise Homes Tanzania Limited, C/o Ishengoma, Masha	TANZANIA	CONS
Global Housing Development, S.A.	HONDURAS	CONS
General Directorate of Highways	TURKEY	CONS
American International School of Abuja	NIGERIA	CONS
Ministry of Finance of the Democratic Republic of Congo	CONGO	CONS
Alterra Partners LLC	PERU	CONS
NA	KENYA	CONS
Hrvatske Autoceste DOO	CROATIA	CONS
American International School of Abuja	NIGERIA	CONS
Financiera TFC, S.A.	PERU	FIN
OOO Morgan Stanley Bank	RUSSIA	FIN
Banco de Credito Centroamericano, S.A.	NICARAGUA	FIN
Morgan Stanley do Brasil Ltda.	BRAZIL	FIN
HSBC bank of brazil SA - Banco multiplo	BRAZIL	FIN
National Road Operating & Construction Co	JAMAICA	FIN
Proficio d.d.	CROATIA	FIN
Ghana Home Loans (Fund I) Limited	GHANA	FIN
Kompanion Financial Group	KYRGYZ REPUBLIC	FIN
Honduras Homes, S.A.	HONDURAS	FIN
Kompanion Financial Group	KYRGYZ REPUBLIC	FIN
Asya Katilim Bankasi A.S.	TURKEY	FIN
Banco Pine	BRAZIL	FIN
Merodent Zimbabwe (Pvt.) Ltd.	ZIMBABWE	MFR
Ministry of Water Resources	IRAQ	MFR
Nationwide Group of Companies, Inc.	LIBERIA	MFR
Merodent Zimbabwe (Pvt.) Ltd.	ZIMBABWE	MFR
Natura Beverage SARM	CAMEROON	MFR
Ministry of Water Resources	IRAQ	MFR
ZAO "ISP Optics, Saint-Petersburg"	RUSSIA	MFR
Merodent Zimbabwe (Pvt.) Ltd.	ZIMBABWE	MFR
Ministry of Water Resources	IRAQ	MFR
Ministry of Water Resources	IRAQ	MFR
A. Stucki - Rail	UKRAINE	MFR
Not applicable	AFGHANISTAN	MFR
Merodent Zimbabwe (Pvt.) Ltd.	ZIMBABWE	MFR
A. Stucki Rail	UKRAINE	MFR
A. Stucki - Rail	UKRAINE	MFR
SORWATHE S.A.R.L.	RWANDA	MFR
Acai do Amapa Agroindustrial Ltda.	BRAZIL	MFR
Instrum-Rand	RUSSIA	MFR
Afghanistan Natural Beverages	AFGHANISTAN	MFR

PROJECT NAME	COUNTRY	SECTOR
Minoterie du Congo, S.A.	CONGO	MFR
Afghanistan Beverage Industries (ABI Group, Limited)	AFGHANISTAN	MFR
Golden Cypress Water Co., LTD/Mrs Almera Guba-Gould	PHILIPPINES	MFR
Golden Cypress Water Co., LTD/Mrs Almera Guba-Gould	PHILIPPINES	MFR
Zao ISP Optics St. Petersburg	RUSSIA	MFR
Domes International Inc - India Manufacturing Division	INDIA	MFR
Cuirs Hawtan S.A.	HAITI	MFR
ISP Optics Sankt Petersburg	RUSSIA	MFR
Kimberly-Clark Peru SA	PERU	MFR
Kimberly-Clark Costa Rica	COSTA RICA	MFR
Colombiana Kimberly SA	COLOMBIA	MFR
molinos del ecuador CA	ECUADOR	MFR
Antarctica Empreendimentos e Participacoes Ltda.	BRAZIL	MFR
PSI Do Brasil Servicos de Seguranca LTDA	BRAZIL	MFR
ABI Group Ltd.	AFGHANISTAN	MFR
Afritrack Angola LDA	ANGOLA	MFR
KWABA - Sociedade Industrial e Comercial, S.A.R.L.	ANGOLA	MFR
Les Moulins d'Haiti S.E.M.	HAITI	MFR
Les Moulins D'Haiti S.E.M. (LMH)	HAITI	MFR
Instrum-Rand	RUSSIA	MFR
Lesotho Flour Mills Limited	LESOTHO	MFR
Minoterie de Matadi, S.A.R.L.	CONGO, DEM. REPUBLIC OF	MFR
Minoterie du Congo, S.A.	CONGO	MFR
Mobeira, SARL	MOZAMBIQUE	MFR
Minoterie de Matadi, S.A.R.L.	CONGO, DEM. REPUBLIC OF	MFR
Pakistan Water and Power Development Authority ("WAPDA")	PAKISTAN	MFR
Pakistan Water and Power Development Authority ("WAPDA")	PAKISTAN	MFR
Kimberly-Clark Vietnam Co., Ltd.	VIETNAM	MFR
National Milling Company Limited	ZAMBIA	MFR
Coca-Cola Nigeria Limited	NIGERIA	MFR
EQUATE Petrochemical Company K.S.C. (Closed)	KUWAIT	MFR
Colombiana Universal de papeles SA	COLOMBIA	MFR
Afritrack Angola LDA	ANGOLA	MFR
PT cabot Chemical	INDONESIA	MFR
Kimberly-Clark Thailand Limited	THAILAND	MFR
Colombiana Kimberly Colpapel SA	COLOMBIA	MFR
Kimberly-Clark Phillipines INC	PHILIPPINES	MFR
Maksan Manisa Mesrubat Kutulama Sanayi AS	TURKEY	MFR
White Star USA	RUSSIA	MINE
Sector Resources, Ltd. Branch	COLOMBIA	MINE
Empresa Minera Manquiri S.A.	BOLIVIA	MINE
Sociedad Minera Cerro Verde, S.A.A.	PERU	MINE

PROJECT NAME	COUNTRY	SECTOR
White Star USA	RUSSIA	MINE
N/A	NICARAGUA	OIL
MKJ Exploraciones Internacionales, S.A.	NICARAGUA	OIL
MKJ Exploraciones Internacionales, S.A.	NICARAGUA	OIL
N/A	NICARAGUA	OIL
PT Tucan Pumpco Services Indonesia	INDONESIA	OIL
West African Gas Pipeline Company Limited	BENIN	OIL
West African Gas Pipeline Company Limited	TOGO	OIL
Baku Oil Tools LTD	AZERBAIJAN	OIL
MKJ Exploraciones Internacionales, S.A.	NICARAGUA	OIL
Foxtrot International LDC	COTE DIVOIRE	OIL
West African Gas Pipeline Company Limited	GHANA	OIL
Various Apache Egypt concession subsidiaries	EGYPT	OIL
The Baku-Tbilisi-Ceyhan Pipeline Company	AZERBAIJAN	OIL
N/A	EGYPT	OIL
perforaciones western, CA	VENEZUELA	OIL
Pride Forasol SAS	CHAD	OIL
Israel electric corporation LTD	ISRAEL	OIL
Zeta Gas De Centro America S.A.	GUATEMALA	OIL
	PHILIPPINES	POWER
DV Technologies d.o.o. Belgrade	SERBIA	POWER
DV Technologies d.o.o. Belgrade	SERBIA	POWER
SEP Energy India Pvt. Ltd.	INDIA	POWER
SEP Energy Pvt. Ltd.	INDIA	POWER
Khozner HPP	KOSOVO	POWER
MaTH Hydro Power (Pvt) Limited	SRI LANKA	POWER
Puerto Cabezas Power S.A.	NICARAGUA	POWER
P.H. Rio Volcan,S.A.	COSTA RICA	POWER
Dominica Electricity Services Ltd. ("DOMLEC")	DOMINICA	POWER
Termovalle S.C.A. .E.S.P.	COLOMBIA	POWER
Fabmik Construction & Equipment Co Inc	PHILIPPINES	POWER
Tipitapa Power Company Ltd.	NICARAGUA	POWER
Gaza Power Generating Private Limited Company	GAZA	POWER
Kidwell International Power Vietnam Company Limited	VIETNAM	POWER
Grenada Electricity Services Limited	GRENADA	POWER
Habibullah Coastal Power (Private) Company	PAKISTAN	POWER
ContourGlobal Togo S.A.	TOGO	POWER
CE Casecan Water and Energy Company, Inc.	PHILIPPINES	POWER
Gaza Power Generating Private Limited Company	GAZA	POWER
P.H. Don Pedro, S.A.	COSTA RICA	POWER
Doga Enerji Uretim Sanayi ve Ticaret L.S.	TURKEY	POWER
P.H. Rio Volcan, S.A.	COSTA RICA	POWER
Termovalle S.C.A. E.S.P.	COLOMBIA	POWER
CE Casecan Water and Energy Company, Inc.	PHILIPPINES	POWER

PROJECT NAME	COUNTRY	SECTOR
Termobarranquilla S.A., Empresa de Servicios Publicos	COLOMBIA	POWER
AES Nigeria Barge Limited	NIGERIA	POWER
National Power Corporation ("NAPOCOR")	PHILIPPINES	POWER
the national power corporation	PHILIPPINES	POWER
Bhote Koshi private company pvt ltd	NEPAL	POWER
Tipitapa Power Company Ltd.	NICARAGUA	POWER
PT Energi Sengkang	INDONESIA	POWER
CBK power Company Limited	PHILIPPINES	POWER
Turboven Maracay company	VENEZUELA	POWER
Turboven Cagua company	VENEZUELA	POWER
Isagan SA ESP	COLOMBIA	POWER
The American Cooperative School of Tunisia	TUNISIA	SVC
N/A	LEBANON	SVC
Khudairi Trading Company Ltd.	IRAQ	SVC
Universal Star Co.	UKRAINE	SVC
N/A	UKRAINE	SVC
Hill Estates Limited, P.O. Box 31617	ZAMBIA	SVC
American University of Beirut	LEBANON	SVC
N/A	LEBANON	SVC
Total Artefactos S.A.	PERU	SVC
Samara Oblast	RUSSIA	SVC
Ministry of Health of Samara Oblast	RUSSIA	SVC
Hercules Liftboat Company Nigeria limited	NIGERIA	SVC
NA	IRAQ	SVC
Compexpo	HUNGARY	SVC
	RISK	SVC
Relief International Branch Office	AFGHANISTAN	SVC
Relief International Branch Office	PAKISTAN	SVC
Relief International Branch Office	BANGLADESH	SVC
Relief International Branch Offices	JORDAN	SVC
Relief International Branch Office	TAJIKISTAN	SVC
Relief International Branch Office	INDONESIA	SVC
The Asia Foundation	MONGOLIA	SVC
The Asia Foundation	EAST TIMOR	SVC
The Asia Foundation	FIJI	SVC
International Rescue Committee	COLOMBIA	SVC
The International Rescue Committee	JORDAN	SVC
International Rescue Committee	NEPAL	SVC
Directorate General Procurement	PAKISTAN	SVC
The Asia Foundation	BANGLADESH	SVC
Relief International Branch Offices	SRI LANKA	SVC
Gilberto Juan Morales Gonzalez, d/b/a Ferreteria Morales	NICARAGUA	SVC
The Asia Foundation	SRI LANKA	SVC
The Asia Foundation	PAKISTAN	SVC

PROJECT NAME	COUNTRY	SECTOR
Relief International Branch Office	AZERBAIJAN	SVC
Relief International Branch Office	SOMALIA	SVC
Relief International Hebron Center of Excellence	WEST BANK	SVC
Relief International Branch Offices	LEBANON	SVC
The Asia Foundation	VIETNAM	SVC
The Asia Foundation	CAMBODIA	SVC
International Rescue Committee, Inc. - Branch Offices	CHAD	SVC
The Asia Foundation	NEPAL	SVC
The Asia Foundation	PHILIPPINES	SVC
The Asia Foundation Branch Offices	THAILAND	SVC
International Rescue Committee - Eritrea	ERITREA	SVC
International Rescue Committee, Inc. Branch Offices	CENTRAL AFRICAN REPUBLIC	SVC
The Asia Foundation	KOREA (SOUTH)	SVC
International Community School, Limited	GHANA	SVC
IRC Branch Office	THAILAND	SVC
International Rescue Committee, Inc.	AZERBAIJAN	SVC
International Rescue Committee, Inc.	BOSNIA- HERZEGOVINA	SVC
International Rescue Committee, Inc.	CONGO	SVC
Asia Foundation	AFGHANISTAN	SVC
Jl. Adityawarman	INDONESIA	SVC
Colite Nicaragua S.A.	NICARAGUA	SVC
International Rescue Committee, Inc.	RUSSIA	SVC
International Rescue Committee, Inc.	RWANDA	SVC
Government of Antigua and Barbuda	ANTIGUA & BARBUDA	SVC
International Rescue Committee - Kenya	KENYA	SVC
International Rescue Committee - branch offices	ETHIOPIA	SVC
S&N Pump Africa LDA	ANGOLA	SVC
International Rescue Committee, Inc. - Guinea	GUINEA	SVC
International Rescue Committee - Pakistan	PAKISTAN	SVC
Union "QSI International School of Tbilisi"	GEORGIA	SVC
International Rescue Committee, Inc. - Branch Offices	UGANDA	SVC
Rio Verde Water Consortium, Inc.	PHILIPPINES	SVC
American Cooperative School of Tunis (ACST) Association	TUNISIA	SVC
Colite El Salvador S.A., c/o Rusconi -	EL SALVADOR	SVC
Sweetwater Pakistan (Private) Ltd.	PAKISTAN	SVC
International Rescue Committee	LIBERIA	SVC
International Rescue Committee - Jakarta	INDONESIA	SVC
International Rescue Committee, Inc. branch offices	TANZANIA	SVC
Tashkent International School	UZBEKISTAN	SVC
International Rescue Committee	BURUNDI	SVC
Colite Costa Rica, S.A.	COSTA RICA	SVC
Colite Guatemala, S.A.	GUATEMALA	SVC

PROJECT NAME	COUNTRY	SECTOR
International Rescue Committee, Inc.	AFGHANISTAN	SVC
International Rescue Committee, Inc. - Branch Offices	SIERRA LEONE	SVC
Wade Rain de Mexico, S. de R.L. de C.V.	MEXICO	SVC
Colite Panama, S.A.	PANAMA	SVC
Colite Honduras, S.A.	HONDURAS	SVC
International Rescue Committee, Inc. branch offices	CONGO, DEM. REPUBLIC OF	SVC
American International School System Private Limited	PAKISTAN	SVC
Colite Panama, S.A.	PANAMA	SVC
Colite El Salvador SA	EL SALVADOR	SVC
Colite Honduras, S.A.	HONDURAS	SVC
Colite Nicaragua S.A.	NICARAGUA	SVC
International Business Services	AFGHANISTAN	SVC
Kabul maskan Company LTD (KMC)	AFGHANISTAN	SVC
georgian leasing company LTD	GEORGIA	SVC
International Rescue Committee Inc	JORDAN	SVC
georgian leasing company LTD	GEORGIA	SVC
princeton healthcare do brazil ltd	BRAZIL	SVC
Medpharm Inc	ETHIOPIA	SVC
Fabmik Construction & Equipment Co Inc	PHILIPPINES	SVC
Lemna De Mexico, SA De CV	MEXICO	SVC
Hercules Liftboat Company Nigeria limited	NIGERIA	SVC
Compania General de Comercio e Industria S.A.	ARGENTINA	TOUR
Joint Venture Itakyr CJSC	KYRGYZ REPUBLIC	TOUR
Armenia Hotel Complex Closed Joint Stock Company	ARMENIA	TOUR
Seven Hills International Hotel, Tourism & Trade A.S.	TURKEY	TOUR
Tayl Limited	AFGHANISTAN	TOUR
Joint Venture Itakyr CJSC	KYRGYZ REPUBLIC	TOUR
M/N Butler Mimarlar Arastirma Tasari ve Yapi Ltd. Sti.	TURKEY	TOUR
M/N Butler Mimarlar Arastirma Tasari ve Yapi Ltd. Sti.	TURKEY	TOUR
Malika Barikhasi, LLC/Malika Hotel Bukhara	UZBEKISTAN	TOUR
M/N Butler Mimarlar Arastirma Tasari ve Yapi Ltd. Sti.	TURKEY	TOUR
Khiva Malikasi, LLC	UZBEKISTAN	TOUR
Seminole S.A.	NICARAGUA	TOUR
Malika Barikhasi, LLC/Malika Hotel Bukhara	UZBEKISTAN	TOUR
Khiva Malikasi, LLC	UZBEKISTAN	TOUR
Takoma LTD	UZBEKISTAN	TOUR
Consolidada de Ferrys C.A. (Conferry)	VENEZUELA	TRAN
Corporacion Quiport S.A.	ECUADOR	TRAN
Corporacion Quiport S.A.	ECUADOR	TRAN
Consolidada de Ferrys, C. A. (Conferry)	VENEZUELA	TRAN
Kwapa Trading Co	Liberia	N/A
St. Michael Enterprises	Yugoslavia	N/A

PROJECT NAME	COUNTRY	SECTOR
OTHER		
AMERICAN EQUIPMENT CO., FLUOR CORP	Iraq	N/A
MINISTRY OF WATER RESOURCES, BALTIMORE DREDGE	Iraq	N/A
IMMDF, CITIBANK	Iraq	N/A
TRADE BANK OF IRAQ, CITIBANK	Iraq	N/A
SIGMA IRAQ LLC, SIGMA INTERNATIONAL CONSTRUCT	Iraq	N/A
A. KHUDAIRI TRADING CO	Iraq	N/A
MINISTRY OF WATER RESOURCES, UNITED MARINE INT'L	Iraq	N/A
AL MANSOUR AUTOMOTIVE CO, CITIBANK	Iraq	N/A
NATIONAL HOUSEHOLD PRODUCTS CO., CITIBANK	Iraq	N/A
AL KHALIJ LABORATORIES-PHOTO SERVICES, CITIBANK	Iraq	N/A
TECHNOLOGY PARTNERS, CITIBANK	Iraq	N/A
AL-BAREEQ AIR CONDITIONING, CITIBANK	Iraq	N/A
FURAT WATER, CITIBANK	Iraq	N/A
BAZIAN BRICKS PRODUCTION COMPANY, CITIBANK	Iraq	N/A
HILAL AL KHAIR, CITIBANK	Iraq	N/A
AL MUHANAD PLASTICS, CITIBANK	Iraq	N/A
AL YOUSIF MODERN WHEAT FACTORIES, CITIBANK	Iraq	N/A
DARCO WOODWORKING, CITIBANK	Iraq	N/A
ROZHANO CO FOR GLASS MANUFACTURE, CITIBANK	Iraq	N/A
AL HARMOOSH FOR GENERAL TRADING TOURISM/TRAVEL, CITIBANK	Iraq	N/A
AL IHSAN AL DEEM, CITIBANK	Iraq	N/A
QASIM JAWHAR KAREEM COMPANY (KURDISTAN FLOUR MILL), CITIBANK	Iraq	N/A
KAIS PLANT FOR MINERAL WATER AND JUICE PRODUCTION, CITIBANK	Iraq	N/A
JASSIM ROCK CRUSHER GRAVEL AND SAND CATEGORIZATION FACTORY, CITIBANK	Iraq	N/A
RASUN COMPANY FOR POULTRY, CITIBANK	Iraq	N/A
BURJ AL FANAR FOR READY MIX CONCRETE CO	Iraq	N/A
STUDENT SOLIDARITY ORGANIZATION, CITIBANK	Iraq	N/A
AL-MANSOUR AUTOMOTIVE COMPANY, CITIBANK	Iraq	N/A
CINEMA SINBAD HOTEL COMPANY, ARCADD INC	Iraq	N/A
MINISTRY WATER RESOURCES, BALTIMORE DREDGES	Iraq	N/A
MINISTRY WATER RESOURCES, BALTIMORE DREDGES	Iraq	N/A
MINISTRY WATER RESOURCES, BALTIMORE DREDGES	Iraq	N/A
MINISTRY WATER RESOURCES, BALTIMORE DREDGES	Iraq	N/A
MINISTRY WATER RESOURCES, BALTIMORE DREDGES	Iraq	N/A
BEARING POINT IRAQ, BEARING POINT INC	Iraq	N/A
IRAQI MIDDLE MARKET FINANCING FACILITY (IMMFF) FRAMEWORK AGREEMENT, CITIBANK	Iraq	N/A
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	Iraq	N/A
TRADE BANK OF IRAQ II, CITIBANK	Iraq	N/A

PROJECT NAME	COUNTRY	SECTOR
ERBILL RESIDENTIAL DEVELOPMENT COMPANY, ERBIL HOUSING PROJECT	Iraq	N/A
SGV MANAGEMENT COMPANY, ERBIL RESIDENTIAL DEVELOPMENT	Iraq	N/A
AMERICAN EQUIPMENT CO, FLOUR ENTERPRISES INC	Iraq	N/A
REPUBLIC OF IRAQ MINISTRY OF ELECTRICITY, GE CAPITAL MARKETS SERVICES	Iraq	N/A
STATE OIL PROJECTS COMPANY, GENERAL ELECTRIC	Iraq	N/A
H&W HOLDINGS GROUP LLC	Iraq	N/A
H&W HOLDINGS GROUP LLC	Iraq	N/A
INTERNATIONAL DEVELOPMENT TRUST LTD	Iraq	N/A
INTERNATIONAL RESCUE COMMITTEE-IRAQ	Iraq	N/A
IRAQ RECOVERY FUND LLC, EXCALIBUR VENTURES LLC, PRINCE STREET CAPITAL MANAGEMENT LLC, POTOMAC PARTNERS LLC	Iraq	N/A
A. KHUDAIRI TRADING COMPANY LTD	Iraq	N/A
KHUDAIRI TRADING COMPANY LTD, AZIZ KHUDAIRI	Iraq	N/A
IRAQI MINISTRY OF WATER RESOURCES, LIQUID WASTE TECHNOLOGY LLC	Iraq	N/A
MENA INDUSTRIES INC., MID NATIONAL HOLDINGS	Iraq	N/A
YAPA MUHENDISLIK INSAAT VE DIS TICARET LTD., MERIDIAN INVESTMENT MANAGEMENT INC	Iraq	N/A
ORASCOM TELECOM IRAQ CORP, MOTOROLA CREDIT	Iraq	N/A
MORRIS & MCDANIEL COMPANY	Iraq	N/A
RELIEF INTERNATIONAL SCHOOLS ONLINE	Iraq	N/A
RHMK IRAQ FUND, L.P.	Iraq	N/A
SIGMA IRAQ, SIGMA INT'L CONSTRUCTION LLC	Iraq	N/A
MINISTRY OF WATER RESOURCES, UNITED MARINE INTERNATIONAL LLC	Iraq	N/A
ABDUL MAJEED AL-FRAIH GENERAL TRADERS/RAINIA WATERS, CITIBANK	Iraq	N/A
ADVANCED TECHNOLOGY SYSTEMS, CITIBANK	Iraq	N/A
AL AZZAWAI, CITIBANK	Iraq	N/A
AL BAREEQ AIR CONDITIONING, CITIBANK	Iraq	N/A
AL HARMOOSH GENERAL TRADING, CITIBANK	Iraq	N/A
AL IHSAN A-DAEEM GENERAL CONTRACTING, CITIBANK	Iraq	N/A
AL KHALIJ LABORATORIES-PHOTO SERVICES, CITIBANK	Iraq	N/A
AL MUHANAD CO FOR PLASTIC INDUSTRIES, CITIBANK	Iraq	N/A
AL RASHEED GYPSUM, CITIBANK	Iraq	N/A
AL YOUSIF MODERN WHEAT FACTORIES, CITIBANK	Iraq	N/A
ALIEDAD GENERAL CONSTRUCTION, CITIBANK	Iraq	N/A
ARABIAN AERATED WATER CO LTD, CITIBANK	Iraq	N/A
IMMDF-ARKAN HAMID FACTORY, CITIBANK	Iraq	N/A
BALAK FACTORY, CITIBANK	Iraq	N/A

PROJECT NAME	COUNTRY	SECTOR
BAZIAN BRICKS PRODUCTION CO, CITIBANK	Iraq	N/A
BECKER FOR MAKING SELLING ALL KINDS, CITIBANK	Iraq	N/A
BEZA FOR PREPARED CONCRETE LTD, CITIBANK	Iraq	N/A
BURJ AL FANAR FOR READY MIX CONCRETE, CITIBANK	Iraq	N/A
DARCO WOODWORKING COMPANY, CITIBANK	Iraq	N/A
DARZELOCK COMPANY/GENERAL TRADING & EXPORT	Iraq	N/A
FURAT WATER, CITIBANK	Iraq	N/A
GARA FACTORY, CITIBANK	Iraq	N/A
GEBALA CENTER COLLECT AND COOL MILK, CITIBANK	Iraq	N/A
HASSAN MOHAMMED EINAD FOR WATER, CITIBANK	Iraq	N/A
IRAQI METAL WEAVING COMPANY, CITIBANK	Iraq	N/A
JASSIM CRUSHER GRAVEL AND SAND, CITIBANK	Iraq	N/A
JIDA FOR IRON AND ALUMINUM INDUSTRIES LTD	Iraq	N/A
K1 GENERAL CONTRACTING CO LTD., CITIBANK	Iraq	N/A
KAIS PLANT MINERAL WATER, CITIBANK	Iraq	N/A
IMMDF-KHALAF BLOCK FACTORY, CITIBANK	Iraq	N/A
KURDISTAN FLOUR MILL, CITIBANK	Iraq	N/A
LOAY FACTORY FOR ASPHALT PRODUCTION, CITIBANK	Iraq	N/A
MUTTAHIDA ELECTRICAL BOARDS, CITIBANK	Iraq	N/A
NAMA GROUP, CITIBANK	Iraq	N/A
NATIONAL HOUSEHOLD PRODUCTS CO., CITIBANK	Iraq	N/A
RASUN COMPANY FOR POULTRY LTD, CITIBANK	Iraq	N/A
ROZHANO COMPANY FOR GLASS MANUFACTURING	Iraq	N/A
SAMAN MA-RUF ABDULKARIM BARZANJI, CITIBANK	Iraq	N/A
SARQALA COMPANY FOR GENERAL CONTRACT, CITIBANK	Iraq	N/A
SMAG LOAN, CITIBANK	Iraq	N/A
STUDENT SOLIDARITY ORGANIZATION, CITIBANK	Iraq	N/A
STUDENT SOLIDARITY ORGANIZATION, CITIBANK	Iraq	N/A
TECHNOLOGY PARTNERS, CITIBANK	Iraq	N/A
YAFA CO FOR FOOD INDUSTRIES, CITIBANK	Iraq	N/A
FUNDS		
ACTIS SOUTH ASIA FUND, NILGIRI FRANCHISE	India	N/A
RUSSIA PARTNERS II, ISKRA TELECOM	Russia	N/A
RUSSIA PARTNERS II, PSL	NIS REGIONAL	N/A
SEEF II, SERBIA BROADBAND	Serbia	N/A
ECP AFRICA, SPENCON	East Africa regional	N/A
ACTIS SOUTH ASIA FUND, NAT'L DEVELOPMENT BANK	Sri Lanka	N/A
DARBY-BBVA LATIN AMERICA PRIVATE EQUITY FUND, GRUPO EMPRESARIAL METROPOLITANO (GEMET)	Mexico	N/A
ECP AFRICA, ECOBANK	West Africa Regional	N/A
ECP AFRICA, BANK OF AFRICA	Africa regional	N/A
ECP AFRICA, INTERCONTINENTAL BANK	Nigeria	N/A
ECP AFRICA, CONTINENTAL REINSURANCE	Nigeria	N/A
ETHOS FUND V, KANDERLANE	South Africa	N/A

PROJECT NAME	COUNTRY	SECTOR
ETHOS FUND V, ALEXANDER FORBES	South Africa	N/A
ETHOS FUND V, OCEANIC BANK	Nigeria	N/A
RUSSIA PARTNERS II, APR BANK MOSCOW	Russia	N/A
ACTIS SOUTH ASIA FUND, CEYLON OXYGEN	Sri Lanka	N/A
AQUA INT'L PARTNERS FUND, GRUPO ROTOPLAST	Mexico	N/A
ASIAN DEV'T PARTNERS FUND II, PROJECT GREEN	India	N/A
ISRAEL GROWTH FUND, APAX PARTNERS&CO	Israel	N/A
RUSSIA PARTNERS COMPANY LP, SIGULER GUFF & CO	Europe/Eurasia	N/A
AIG BRUNSWICK MILLENNIUM FUND, AIG MILLENIUM GP	Europe/Eurasia	N/A
AIG BRUNSWICK MILLENNIUM FUND, AIG MILLENIUM GP	Europe/Eurasia	N/A
EMERGING EUROPE FUND, TEMPLETON ADVISORS	Europe/Eurasia	N/A
RUSSIA PARTNERS COMPANY LP, SIGULER GUFF & CO	Europe/Eurasia	N/A
POLAND PARTNERS, LANDON BUTLER & CO	Poland	N/A
DRAPER INT'L INDIA FUND, DRAPER INTERNATIONAL	India	N/A
INDIA PRIVATE EQUITY FUND, CIBC WORLD MARKETS	India	N/A
AGRIBUSINESS PARTNERS INT'L, AMERICA FIRST CO	Europe/Eurasia	N/A
AGRIBUSINESS PARTNERS INTERNATIONAL (BALTICS), AMERICA FIRST COMPANIES	Europe/Eurasia	N/A
BANCROFT EASTERN EUROPE FUND	Europe/Eurasia	N/A
NEW CENTURY CAPITAL PARTNERS LP, NCH ADVISORS	Europe/Eurasia	N/A
NEW CENTURY CAPITAL PARTNERS LP, NCH ADVISORS	Europe/Eurasia	N/A
NEW AFRICA OPPORTUNITY FUND LP, ZEPHYR SOUTHERN AFRICA PARTNERS LLC	Africa/MidEast	N/A
AQUA PARTNERS LP, TARRANT PARTNERS	All Opic	N/A
GLOBAL ENVIRONMENT EMERGING MARKETS FUND LI, GEF MANAGEMENT CORP	All Opic	N/A
ASIA DEVELOPMENT PARTNERS LP, SOUTH ASIA CAPITAL LTD C/O OLYMPUS CAPITAL HOLDINGS	Asia/Pacific	N/A
NEWBRIDGE ANDEAN PARTNERS LP, ACON PARTNERS	LatinAmerica/Caribbean	N/A
MODERN AFRICA GROWTH AND INVESTMENT COMPANY, CITICORP VENTURES / LAND & MITTENDORF / OTHER	Africa/MidEast	N/A
AFRICA GROWTH FUND, EQUATOR HOLDINGS LTD	Africa/MidEast	N/A
MODERN AFRICA GROWTH AND INVESTMENT FUND 2, MODERN AFRICA FUND MANAGERS LLC	Africa/MidEast	N/A
SOUTHEAST EUROPE EQUITY FUND LTD, BEDMINSTER CAPITAL MANAGEMENT LLC	Europe/Eurasia	N/A
GREAT CIRCLE FUND LP (MISF), GREAT CIRCLE CAPITAL	All Opic	N/A
RUSSIA PARTNERS LI O SERIES LP, SIGULER GUFF & CO	Europe/Eurasia	N/A
ASIA PACIFIC GROWTH FUND, HAMBRECHT & QUIST ASIA PACIFIC LTD	Asia/Pacific	N/A
DARBY-BBVA LATIN AMERICAN HOLDINGS LLC, DARBY OVERSEAS PARTNERS LTD	LatinAmerica/Caribbean	N/A
PALADIN REALTY LATIN AMERICA INVESTORS LI LP, PALADOR REALTY I GP, LLC	LatinAmerica/Caribbean	N/A

PROJECT NAME	COUNTRY	SECTOR
EMP AFRICA FUND LI INVESTMENTS LLC, EMP AFRICA MANAGEMENT LP	Africa/MidEast	N/A
ETHOS PRIVATE EQUITY FUND V, ELIGIBLE US INVESTORS	Africa/MidEast	N/A
ACTIS SOUTH ASIA FUND 2 LP, ELIGIBLE US INVESTORS	Asia/Pacific	N/A
ASIA DEVELOPMENT PARTNERS LI LP, OLYMPUS ADP II GP, LLC	Asia/Pacific	N/A
CLEARWATER CAPITAL PARTNERS INVESTMENTS II LP	Asia/Pacific	N/A
SOUTHEAST EUROPE EQUITY FUND LTD, BEDMINSTER CAPITAL MANAGEMENT LLC	Europe/Eurasia	N/A
BARING MEXICO PRIVATE EQUITY LI FUND, BARING MEXICO II (GP) INC/BARING LATIN AMERICAN HOLDINGS	LatinAmerica/Caribbean	N/A
ECP MENA GROWTH INVESTMENTS LLC, EMERGING CAPITAL PARTNERS LLC	Africa/MidEast	N/A
GLOBAL ENVIRONMENT EMERGING MARKET FUND, GEF MANAGEMENT CORP	All Opic	N/A
DARBY PROBANCO LI FUND, DARBY OVERSEAS PARTNERS LTD	LatinAmerica/Caribbean	N/A
LATIN POWER TRUST LII, CONDUIT CAPITAL PARTNERS	LatinAmerica/Caribbean	N/A
DARBY BBVA, GRUPO BAJA CERO	Mexico	N/A
ACTIS SOUTH ASIA FUND, PARAS PHARMACEUTICALS	India	N/A
AQUA INT'L PARTNERS FUND, SPRINGS OF EDEN BV	Poland	N/A
ASIAN DEV'T PARTNERS FUND II, SANJHVI MOVERS	Korea	N/A
DARBY BBVA LATIN AMERICA PRIVATE EQUITY FUND, SATELITE DISTRIBUIDORA DE PETROLEO	Brazil	N/A
ETHOS FUND V, MORESPORT	South Africa	N/A
ETHOS FUND V, PLUMBLINK	South Africa	N/A
RUSSIA PARTNERS II, SOK	Russia	N/A
RUSSIA PARTNERS II, UKRAINE INSURANCE	Ukraine	N/A
SEEF II, HEDEF	Turkey	N/A
GREAT CIRCLE CAPITAL, OVERSEAS LOGISTIC (RLS)	Russia	N/A
GREAT CIRCLE CAPITAL, BALNAK LOGISTICS GROUP	Turkey	N/A
GREAT CIRCLE CAPITAL, STS LOGISTICS	Russia	N/A
ZAO AIST	Russia	N/A
Kujtesda	Kosovo	N/A
Hiperdia	Romania	N/A
Health Management System	Bulgaria	N/A
West Call Communications	Russia	N/A
Russia Partners Direct Insurance	Ukraine	N/A
Helios PT Africa	Netherlands	N/A
Helios First City Monument Bank	Nigeria	N/A
EMP Africa Fund II	Algeria	N/A
Planor Capital	Mauritius	N/A
Blue Financial	South Africa	N/A
SAWHF	South Africa	N/A

PROJECT NAME	COUNTRY	SECTOR
ECP Mena – Societe d’Articles Hygieniques	Tunisia	N/A
Helios Towers	Nigeria	N/A
Equity Bank	Africa	N/A
UniversALB	Albania	N/A
Clearwater Capital Partners	Asia	N/A
Insun – Project Green	South Korea	N/A
BIS EOOD – New Europe Directories	Bulgaria	N/A
Diamant – Kontakt Insurance	Ukraine	N/A

APPENDIX B – 2011 ACTIVE PROJECTS

ACTIVE PROJECTS

This list presents projects that were screened for the 2011 inventory.

Table 3: Active Projects – As of September 30, 2012

PROJECT NAME	COUNTRY NAME	SECTOR
ARBITRAL AW		
GHANA NATIONAL AGRICULTURE DEVELOPMENT PROJ	GHANA	Construction
GHANA NATIONAL WATER INFRASTRUCTURE	GHANA	Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
GHANA NATIONAL AGRICULTURE DEVELOPMENT PROJ	GHANA	Construction
GHANA NATIONAL WATER INFRASTRUCTURE	GHANA	Services
ABAMEDIA, L.P.(TRANCHE A)	RUSSIA	Services
ACAI DO AMAPA AGROINDUSTRIAL LTDA.	BRAZIL	Manufacturing
ACCESS AFRICA FUND	AFRICA REGIONAL	Financial Services
ADAPAZARI ELEKTRIK URETIM LTD. SIRKETI	TURKEY	Energy - Power
AERIS HOLDING COSTA RICA, S.A..	COSTA RICA	Transportation
AES JORDAN PSC	JORDAN	Energy - Power
AES LEVANT PSC	JORDAN	Energy - Power
AFGHAN GROWTH FINANCE LLC	AFGHANISTAN	Financial Services
AFGHAN GROWTH FINANCE LLC	AFGHANISTAN	Financial Services
AGA KHAN HOSPITAL & MEDICAL COLLEGE FUND	PAKISTAN	Services
AKBANK T.A.S.	TURKEY	Financial Services
AL TAMWEEL AL SAREE LIMITED	IRAQ	Financial Services
ALISTAIR JAMES COMPANY LIMITED	TANZANIA	Transportation
AMAL-CAIRO AMMAN FOR FINANCING FLTG LOANS PL	WEST BANK	Financial Services
AMAL-CAIRO AMMAN FOR FINANCING FXD LOANS PLC	WEST BANK	Financial Services
AMAL-PALESTINE FOR FINANCING FIXED LOANS PLC	WEST BANK	Financial Services
AMAL-PALESTINE FOR FINANCING FLTG LOANS PLC	WEST BANK	Financial Services
AMERICAN EMBASSY SCHOOL OF LUSAKA	ZAMBIA	Services
AMERICAN INTERNATIONAL SCHOOL OF ABUJA	NIGERIA	Services
AMERICAN INTERNATIONAL SCHOOL OF BAMAKO	MALI	Services
AMERICAN INTERNATIONAL SCHOOL OF KINGSTON	JAMAICA	Services
AMERICAN INTERNATIONAL SCHOOL OF MONROVIA IN	LIBERIA	Services
AMERICAN INTERNATIONAL SCHOOL SYSTEMS, INC.	PAKISTAN	Services
AMERICAN MONOLITH LTD	GEORGIA	Transportation
AMERICAN UNIVERSITY IN BULGARIA	BULGARIA	Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
AMERICAN WOOL-CASHMERE, INC.	AFGHANISTAN	Services
AMTECH SP.ZO.O	POLAND	Construction
APPLIED SOLAR TECHNOLOGIES INDIA PRIVATE LTD	INDIA	Energy - Power
ARGENTINA OLIVE RANCH	ARGENTINA	Agriculture
ARMENIA HOTEL COMPLEX CLOSED JSC	ARMENIA	Tourism/Hotels
AUSTRALIS AQUACULTURE LLC	VIETNAM	Agriculture
AUTO SERVICE CAUCASUS LTD	GEORGIA	Services
AZURE POWER (GUJARAT) PVT LTD - SUNEDISON	INDIA	Manufacturing
AZURE POWER HARYANA PRIVATE LIMITED	INDIA	Energy - Power
AZURE POWER PUNJAB PRIVATE LIMITED	INDIA	Energy - Power
BAC INTERNATIONAL BANK,INC. (TRANCHE A)	PANAMA	Financial Services
BAC INTERNATIONAL BANK,INC. (TRANCHE B)	PANAMA	Financial Services
BANCA DE FINANTE SI COMERT S.A.	MOLDOVA	Financial Services
BANCASH MEXICO	MEXICO	Financial Services
BANCO BAC SAN JOSE, S.A. (TRANCHE A)	COSTA RICA	Financial Services
BANCO BAC SAN JOSE, S.A. (TRANCHE B)	COSTA RICA	Financial Services
BANCO DE AMERICA CENTRAL HONDURAS, S.A.(TR A	HONDURAS	Financial Services
BANCO DE AMERICA CENTRAL HONDURAS, S.A.(TR B	HONDURAS	Financial Services
BANCO DE AMERICA CENTRAL, S.A. (TRANCHE A)	GUATEMALA	Financial Services
BANCO DE AMERICA CENTRAL, S.A. (TRANCHE A)	NICARAGUA	Financial Services
BANCO DE AMERICA CENTRAL, S.A. (TRANCHE B)	NICARAGUA	Financial Services
BANCO DE AMERICA CENTRAL, S.A. (TRANCHE B)	GUATEMALA	Financial Services
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	Financial Services
BANCO DE CREDITO CENTROAMERICANO, S.A.	NICARAGUA	Financial Services
BANCO LAFISE HONDURAS, S.A.	HONDURAS	Financial Services
BANCO LAFISE HONDURAS, S.A.	HONDURAS	Financial Services
BANCO LAFISE S.A.	COSTA RICA	Financial Services
BANCO LAFISE, S.A. (TRANCHE 2)	COSTA RICA	Financial Services
BANCO LAFISE, S.A. (TRANCHE 3)	COSTA RICA	Financial Services
BETSY, LLC	GEORGIA	Tourism/Hotels
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
BRAC AFRICA MICROFINANCE, LTD. (CLASS A)	TANZANIA	Financial Services
BRAC AFRICA MICROFINANCE, LTD. (CLASS B)	TANZANIA	Financial Services
BRAVO ENERGY MEXICO SRL DE CV	MEXICO	Energy - Oil and Gas
BRAZILIAN EMERALDS, INC.	BRAZIL	Mining
BROAD COVE ECOHOMES LIBERIA, INC.	LIBERIA	Construction
BUCHANAN RENEWABLES (MONROVIA) POWER INC.	LIBERIA	Energy - Power
BUCHANAN RENEWABLES FUEL, INC.	LIBERIA	Manufacturing
C21 BRASIL DESENVOLVIMENTO IMOBILAIRIO LTDA	BRAZIL	Financial Services
CAFR-AMERICAN INTERNATIONAL SCHOOL LAGOS	NIGERIA	Services
CAFR-BEL POPYRUS LIMITED	NIGERIA	Manufacturing
CAFR-MIDDLE EAST COMPLEX FOR ENGINEERING	JORDAN	Manufacturing
CAFR-MIDDLE EAST COMPLEX FOR ENGINEERING	JORDAN	Manufacturing
CAIRO AMMAN BANK	JORDAN	Financial Services
CALVERT SOCIAL INVESTMENT FOUNDATION	ALL OPIC COUNTRIES	Financial Services
CASAMAR MAURITIUS, LTD./CASAMAR INDIAN OCEAN	MAURITIUS	Manufacturing
CASIA-DIGICEL (SAMOA) LIMITED	WESTERN SAMOA	Communication
CASIA-PACIFIC BANGLADESH TELECOM LIMITED	BANGLADESH	Communication
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CASIA-SPANDANA SPHOORTY FINANCIALS LTD	INDIA	Financial Services
CCA2-BANCA PROMERICA, S.A.	COSTA RICA	Financial Services
CCA2-GRUPO M HOLDING S.A.	COSTA RICA	Financial Services
CGLOB-ASESORIA EN TELECOMUICACIONES	GUATEMALA	Communication
CGLOB-ASTARTA-KYIV LLC	UKRAINE	Agriculture
CGLOB-DIGICEL (PNG) LIMITED	PAPUA NEW GUINEA	Communication
CGLOB-PAKISTAN MOBIL COMMUNICATIONS LIMITED	PAKISTAN	Communication
CGLOB-POLTAVSKE HPP/KONONIVSKY ELEVATOR LL	UKRAINE	Agriculture
CHF LEBANON REPLACEMENT FACILITY	LEBANON	Financial Services
CHF/L-COOPERATIVE HOUSING FOUNDATION LEBANON	LEBANON	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
CHF/L-CREDIT LEBANAIS BANK	LEBANON	Financial Services
CHF/L-FRANSABANK S.A.L.	LEBANON	Financial Services
CHF/L-JAMAL TRUST BANK S.A.L.	LEBANON	Financial Services
CHOUS2-BANCO ALIADO, S.A.	PANAMA	Financial Services
CHOUS2-BANCO CONTINENTAL S.A.E.C.A.	PARAGUAY	Financial Services
CHOUS2-BANCO FICOHSA	HONDURAS	Financial Services
CHOUS2-BANCO REGIONAL S.A.E.C.A.	PARAGUAY	Financial Services
CHOUS2-BANK POZITIF	TURKEY	Financial Services
CHOUS2-FIRST CITY MONUMENT BANK PLC ("FCMB")	NIGERIA	Financial Services
CHOUS2-GLOBAL BANK CORPORATION	PANAMA	Financial Services
CHOUS2-JSC BANK CENTERCREDIT	KAZAKHSTAN	Financial Services
CHOUS2-JSC HALYK SAVINGS BANK	KAZAKHSTAN	Financial Services
CHOUS-BANCO DE LA PRODUCCION S.A.	NICARAGUA	Financial Services
CHOUS-BANCO FINANCIERA COMMERCIAL HONDURENA	HONDURAS	Financial Services
CHOUS-BANCO PROMERICA	COSTA RICA	Financial Services
CHOUS-BANCO REFORMADOR, S.A.	GUATEMALA	Financial Services
CHOUS-BANRURAL S.A.	GUATEMALA	Financial Services
CHOUS-JOINT STOCK COMPANY TBC BANK	GEORGIA	Financial Services
CITADEL CAPITAL LOAN FACILITY	EGYPT	Financial Services
CLEB2A-BANK AUDI SAL-AUDI SARADAR GROUP	LEBANON	Financial Services
CLEB2A-BANKMED S.A.L.	LEBANON	Financial Services
CLEB2A-BYBLOS BANK SAL	LEBANON	Financial Services
CLEB2-BANK AUDI SAL-AUDI SARADAR GROUP	LEBANON	Financial Services
CLEB-BANKMED S.A.L.	LEBANON	Financial Services
CLEB-BANQUE LIBANO-FRANCAISE S.A.L.	LEBANON	Financial Services
CLEB-BYBLOS BANK S.A.L.	LEBANON	Financial Services
CMFI-2-ACBA CREDIT AGRICOLE BANK CJSC	ARMENIA	Financial Services
CMFI-2-ASA PHILIPPINES	PHILIPPINES	Financial Services
CMFI-2-BANCO FAMILIAR S.A.E.C.A.	PARAGUAY	Financial Services
CMFI-2-BANCO PROCREDIT S.A.	ECUADOR	Financial Services
CMFI-2-BANK DANAMON INDONESIA PT TBK	INDONESIA	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
CMFI-2-GRUPO INTERNACIONAL DE FINANZAS SAECA	PARAGUAY	Financial Services
CMFI-2-JORDAN MICRO CREDIT COMP(TAMWEELCOM)	JORDAN	Financial Services
CMFI-2-LOLC MICRO CREDIT LIMITED	SRI LANKA	Financial Services
CMFI-2-SEKERBANK T.A.S.	TURKEY	Financial Services
CMFI-2-VISION BANCO S.A.E.C.A.	PARAGUAY	Financial Services
CMFI-AGENCE DE CREDIT POUR L'ENTREPRISE PRIV	CAMEROON	Financial Services
CMFI-ASA GRAMA VIDIAL TRUST	INDIA	Financial Services
CMFI-BHARTIYA SAMRUDDHI FINANCE LTD.	INDIA	Financial Services
CMFI-BHARTIYA SAMRUDDHI FINANCE LTD.	INDIA	Financial Services
CMFI-BHARTIYA SAMRUDDHI FINANCE LTD.	INDIA	Financial Services
CMFI-BHARTIYA SAMRUDDHI FINANCE LTD.	INDIA	Financial Services
CMFI-OPPORTUNITY MICROCREDIT ROMANIA ("OMRO")	ROMANIA	Financial Services
CMFI-SPANDANA SPOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-SPANDANA SPOORTY FINANCIAL LIMITED	INDIA	Financial Services
CMFI-UGANDA FINANCE TRUST	UGANDA	Financial Services
COMPANIA GENERAL DE COMERCIO E INDUSTRIA SA	ARGENTINA	Tourism/Hotels
COMPANIA GENERAL DE COMERCIO E INDUSTRIA SA	ARGENTINA	Tourism/Hotels
CONDOMINIOS RIVERSIDE ETAPA II, S.A.	COSTA RICA	Construction
CONTOURGLOBAL SOLUTIONS HOLDINGS LIMITED	ALL OPIC COUNTRIES	Energy - Power
CONTOURGLOBAL TOGO S.A.	TOGO	Energy - Power
CORPORACION QUIPORT S.A.	ECUADOR	Transportation
CPAK2-ENGRO VOPAK TERMINAL LTD	PAKISTAN	Manufacturing
CSA-BANCO PROCREDIT ECUADOR	ECUADOR	Financial Services
CSA-BANCO REGIONAL, S.A.	PARAGUAY	Financial Services
CSA-BBVA PARAGUAY S.A.	PARAGUAY	Financial Services
CSA-DIGICEL PANAMA S.A.	PANAMA	Communication
CSA-GRUPO JAREMAR (BUFINSA,INDASA,OLEPSA)	HONDURAS	Manufacturing
CSA-INTERBANCO S.A.	PARAGUAY	Financial Services
CSI LATINA FINANCIAL, INC./CSI LEASING MEXIC	MEXICO	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
CSI LATINA FINANCIAL, INC./CSI LEASING MEXIC	MEXICO	Financial Services
CSI LATINA FINANCIAL, INC/CSI LATINA ARRENDA	BRAZIL	Financial Services
CSI LATINA FINANCIAL,INC/CSI LEASING DE CENT	LATIN AMERICA REGION	Financial Services
CSI LEASING POLSKA SP.Z.O.O ET AL	EUROPE REGIONAL	Financial Services
CSINTELIRENT LDA	PORTUGAL	Financial Services
DATASPACE PARTNERS, LLC	RUSSIA	Financial Services
DESARROLLOS DE LOS SUENOS, S.A.	ARGENTINA	Tourism/Hotels
DIG CAPITAL LLC	HAITI	Financial Services
DISI WATER PSC	JORDAN	Services
DMITROV DAIRY FARMS, CJSC	RUSSIA	Agriculture
E.P. INTEROIL, LTD.	PAPUA NEW GUINEA	Energy - Oil and Gas
EMERGENCY LIQUIDITY FACILITY, L.P.	ALL OPIC COUNTRIES	Financial Services
EMERGING MARKETS CONSULTING (PRIVATE) LTD.	PAKISTAN	Financial Services
EPISCOPAL CHURCH OF JERUSALEM & THE MIDDLE E	ISRAEL	Construction
EQUITY CAPITAL MINING, LLC	AFGHANISTAN	Mining
ESP URJA PRIVATE LIMITED	INDIA	Energy - Power
EXPRESS FINANCE-INSTITUTIE FINANCIARA NEBAN	ROMANIA	Financial Services
EYE FUND 1, LLC	ALL OPIC COUNTRIES	Financial Services
FINANCIERA TFC, S.A.	PERU	Financial Services
FIREFLY INVESTMENTS 230 PTY	SOUTH AFRICA	Energy - Power
FIRST MORTGAGE COMPANY UCO LLC	ARMENIA	Financial Services
FIRST MORTGAGE COMPANY UCO, LLC	ARMENIA	Financial Services
FIXED RATE FUNDING & LIQUIDITY LTD (HWD SPA)	ALGERIA	Services
FLAMA DE ORO S.A.	GUATEMALA	Agriculture
FLAMA DE ORO, S.A.	GUATEMALA	Agriculture
FORESTRY & AGRICULTURAL INVESTMENT MGMT USA	RWANDA	Agriculture
GAMMA KNIFE PERU	PERU	Services
GARANTI DIVERSIFIED PAYMENT RIGHTS COMPANY	TURKEY	Financial Services
GCMC II- JUNIOR NOTE TRANCHE	ALL OPIC COUNTRIES	Financial Services
GEBZE ELEKTRIK URETIM LTD SIRKETI	TURKEY	Energy - Power
GEORGIAN AMERICAN UNIVERSITY LLC	GEORGIA	Services
GHANA HOME LOANS (FUND 1) LIMITED	GHANA	Financial Services
GHANA HOME LOANS (FUND 1) LIMITED	GHANA	Financial Services
GHP(HONDURAS)LLC/GLOBAL HOUSING DEVELOPMENT	HONDURAS	Construction
GILBERTO J.M.GONZALEZ/DBA/FERRETERIA MORALES	NICARAGUA	Services
GLOBAL COMMERCIAL MICROFINANCE CONSORTIUM II	ALL OPIC COUNTRIES	Financial Services
GLOBAL MICROFINANCE FACILITY LTD.	ALL OPIC COUNTRIES	Financial

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		Services
		Financial Services
GLOBAL MICROFINANCE FACILITY LTD.	ALL OPIC COUNTRIES	Financial Services
GLOBAL PARTNERSHIPS MICROFINANCE FUND2008LLC	LATIN AMERICA REGION	Financial Services
GLOBAL PARTNERSHIPS MICROFINANCE FUND2008LLC	LATIN AMERICA REGION	Financial Services
GLOBAL PARTNERSHIPS SOCIAL INV. FUND 2010LLC	LATIN AMERICA REGION	Financial Services
GLOBAL PARTNERSHIPS SOCIAL INV. FUND 2010LLC	LATIN AMERICA REGION	Financial Services
GLOBOKAS PERU, S.A.C.	PERU	Financial Services
GMT MTATSMINDA, LLC	GEORGIA	Services
GN BEVERAGES	MONGOLIA	Manufacturing
GOLDEN CYPRESS WATER CO. LTD.	PHILIPPINES	Manufacturing
GOLDHAM PTY LTD.T/A KALAHARI GAS CORPORATION	BOTSWANA	Energy - Oil and Gas
GOLDHAM PTY LTD.T/A KALAHARI GAS CORPORATION	BOTSWANA	Energy - Oil and Gas
GOLDHAM PTY LTD.T/A KALAHARI GAS CORPORATION	BOTSWANA	Energy - Oil and Gas
GRAMEEN FOUNDATION FAIRTRADE FUND	ALL OPIC COUNTRIES	Financial Services
GRASSROOTS BUSINESS FUND	ALL OPIC COUNTRIES	Financial Services
GTS MAJES S.A.C. AND GTS REPARTICION S.A.C.	PERU	Energy - Power
GTS MAJES S.A.C. AND GTS REPARTICION S.A.C.	PERU	Energy - Power
HAITI 360	HAITI	Manufacturing
HEALTHPOINT SERVICES INDIA	INDIA	Services
HERMITAGE HOSPITALITY FRANCHISING LIMITED	RUSSIA	Tourism/Hotels
HIGHER EDUCATION FINANCE FUND (HEFF)	LATIN AMERICA REGION	Financial Services
HOUSING FOR HIV, INC.	SOUTH AFRICA	Financial Services
HUSK POWER SYSTEMS, INC.	INDIA	Energy - Power
IDFC	INDIA	Manufacturing
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
INNOVIDA HOLDINGS LLC	HAITI	Manufacturing
INSTITUTO CULINARIO SANTA LUCIA,S.A.	NICARAGUA	Services
INTER-MAC INTERNATIONAL, INC.	HONDURAS	Financial Services
INTERNATIONAL COMMUNITY SCHOOL LIMITED	GHANA	Services
INTERNATIONAL COMMUNITY SCHOOL LIMITED	GHANA	Services
INTL CO FOR ENERGY TECHNOLOGY INDUSTRIES	JORDAN	Construction
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	Financial Services
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	Financial Services
IRAQ MIDDLE MARKET DEVELOPMENT FOUNDATION	IRAQ	Financial Services
ISTANBUL INTERNATIONAL COMMUNITY SCHOOL (B)	TURKEY	Services
ISTANBUL INTERNATIONAL COMMUNITY SCHOOL,INC.	TURKEY	Services
IZMIR ELEKTRIK URETIM LTD SIRKETI	TURKEY	Energy - Power

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
JOINT STOCK COMPANY HOTEL TBILISI	GEORGIA	Tourism/Hotels
JOPA VILLAS, LLC	KENYA	Construction
JORDAN-ARAB BANK	JORDAN	Financial Services
JORDAN-BANK AL ETIHAD	JORDAN	Financial Services
JORDAN-CAIRO AMMAN BANK	JORDAN	Financial Services
JORDAN-JORDAN AHLI BANK	JORDAN	Financial Services
JOSHI TECHNOLOGIES INTERNATIONAL INC	COLOMBIA	Energy - Oil and Gas
JOSHI TECHNOLOGIES INTERNATIONAL INC. III	COLOMBIA	Energy - Oil and Gas
JSC BANK OF GEORGIA	GEORGIA	Financial Services
JSC BANK OF GEORGIA	GEORGIA	Financial Services
JSC IBERIA REAL ESTATE	GEORGIA	Construction
JSC PROCREDIT BANK GEORGIA	GEORGIA	Financial Services
JSC PROCREDIT BANK GEORGIA	GEORGIA	Financial Services
KABUL GRAND RESIDENCES LLC	AFGHANISTAN	Construction
KORET ISRAEL ECONOMIC DEVELOPMENT FUNDS	ISRAEL	Financial Services
LA FUTURA, S.A.	GUATEMALA	Agriculture
LA HIPOTECARIA PANAMANIAN MORTGAGE TRUST 10	PANAMA	Financial Services
LAFISE GROUP PANAMA, INC.	PANAMA	Financial Services
LAGRAY CHEMICAL COMPANY LTD	GHANA	Manufacturing
LEAWOOD INVESTMENTS INC/BARRIEFIELD LLC	COLOMBIA	Agriculture
LIBERIAN ENTERPRISE DEVELOPMENT FINANCE CO.	LIBERIA	Financial Services
LLC "WINNER IMPORTS UKRAINE, LTD"	UKRAINE	Services
MAJESTIC GROUP KOREA, LTD.	KOREA (SOUTH)	Services
MAPSWITCH UGANDA LTD	UGANDA	Financial Services
MEDICAL CREDIT FUND	AFRICA REGIONAL	Financial Services
MEDPHARM, INC.	ETHIOPIA	Services
MEII-2- CAIRO AMMAN BANK (SME INCREASE)	WEST BANK	Financial Services
MEII-2-ARAB BANK	WEST BANK	Financial Services
MEII-2-BANK OF PALESTINE (SME INCREASE)	WEST BANK	Financial Services
MEII-2-CAIRO AMMAN BANK - MICROFINANCE	WEST BANK	Financial Services
MEII-2-HOUSING BANK FOR TRADE AND FINANCE	WEST BANK	Financial Services
MEII-2-JORDAN AHLI BANK (SME)	WEST BANK	Financial Services
MEII-2-PALESTINE COMMERCIAL BANK	WEST BANK	Financial Services
MEII-2-QUDS BANK (SME)	WEST BANK	Financial Services
MEII-AL RAFAH BANK	WEST BANK	Financial

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
		Services
MEII-AL-QUDS BANK FOR DEVELOPMENT & INVEST	WEST BANK	Financial Services
MEII-ARAB BANK	WEST BANK	Financial Services
MEII-BANK OF JORDAN	WEST BANK	Financial Services
MEII-BANK OF PALESTINE	WEST BANK	Financial Services
MEII-BANK OF PALESTINE	WEST BANK	Financial Services
MEII-BANK OF PALESTINE (MOVENPICK)	WEST BANK	Tourism/Hotels
MEII-BANK OF PALESTINE (WATANIYA)	WEST BANK	Communication
MEII-BANK OF PALESTINE-FATEN MICROFINANCE	WEST BANK	Financial Services
MEII-CAIRO AMMAN BANK	WEST BANK	Financial Services
MEII-CAIRO AMMAN BANK - FATEN MICROFINANCE	WEST BANK	Financial Services
MEII-CAIRO AMMAN BANK (MOVENPICK)	WEST BANK	Tourism/Hotels
MEII-HOUSING BANK FOR TRADE AND FINANCE	WEST BANK	Financial Services
MEII-JORDAN AHLI BANK	WEST BANK	Financial Services
MEII-PALESTINE COMMERCIAL BANK	WEST BANK	Financial Services
MEII-QUDS BANK (WATANIYA)	WEST BANK	Communication
MFX SOLUTIONS, INC.	ALL OPIC COUNTRIES	Financial Services
MIBANCO-IFC SYNDICATION	PERU	Financial Services
MICROBUILD I, LLC	ALL OPIC COUNTRIES	Financial Services
MICROCREDIT ENTERPRISES	ALL OPIC COUNTRIES	Financial Services
MICROENERGY CREDITS	ALL OPIC COUNTRIES	Financial Services
MICROFINANCE GROWTH FUND, LLC	LATIN AMERICA REGION	Financial Services
MICROVEST I, LP	ALL OPIC COUNTRIES	Financial Services
MIDDLE EAST INVESTMENT INITIATIVE, INC.	GAZA	Financial Services
MIDDLE EAST INVESTMENT INITIATIVE, INC.	GAZA	Financial Services
MINLAM MICROFINANCE FUND 2	ALL OPIC COUNTRIES	Financial Services
MORUMBY HOTEIS LTDA.	BRAZIL	Tourism/Hotels
NAMGEM TRADING BVI LIMITED	NAMIBIA	Manufacturing
NATURA BEVERAGE LLC	CAMEROON	Manufacturing
NATURA BEVERAGE, LLC	CAMEROON	Manufacturing
NCB2 -BANK TURAN ALEM	KAZAKHSTAN	Financial Services
NCB2 -BANK TURAN ALEM	KAZAKHSTAN	Financial Services
NCB2-TURK EKONOMI BANKASI A.S. PURPOSE B	TURKEY	Financial Services
NCB3-ALLIANCE BANK JSC	KAZAKHSTAN	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
NCB3-ALLIANCE BANK JSC	KAZAKHSTAN	Financial Services
NCB3-ATF BANK JSC	KAZAKHSTAN	Financial Services
NCB3-BANCO PINE S.A.	BRAZIL	Financial Services
NCB3-BANK CENTER CREDIT JSC	KAZAKHSTAN	Financial Services
NCB3-LOCKO BANK	RUSSIA	Financial Services
NCB3-ROSEUROBANK	RUSSIA	Financial Services
NCB3-TRANSCAPITAL BANK JSC	RUSSIA	Financial Services
NEPC CONSORTIUM POWER LTD.(HARIPUR)	BANGLADESH	Energy - Power
NEW YORK PIZZA CO. LTD.	RUSSIA	Services
NORTH STAR ST. KITTS, LTD.	ST. CHRISTOPHER-NEVI	Energy - Power
NORTHERN GULF RENTALS LIMITED	IRAQ	Services
NU STRATA LOGISTICS	LIBERIA	Services
NUMOTECH, INC.	RUSSIA	Manufacturing
O&S CONSULTING, L.L.C.	UZBEKISTAN	Construction
ORPOWER 4 GEOTHERMAL	KENYA	Energy - Power
PACIFIC COLLECTION COMPANY/TRIBAL LOOM	AFGHANISTAN	Manufacturing
PAITON ENERGY COMPANY	INDONESIA	Energy - Power
PAITON ENERGY COMPANY	INDONESIA	Energy - Power
PANNONIA ETHANOL ZTR	HUNGARY	Manufacturing
PARKO SERVICES S.A.	COLOMBIA	Energy - Oil and Gas
PARKO SERVICES, S.A.	COLOMBIA	Energy - Oil and Gas
PARTNERS FOR SUSTAINABLE DEV'MENT -NETKETABI	WEST BANK	Financial Services
PATRIA CREDIT INSTITUTIE FINANCIARA NEBAN SA	ROMANIA	Financial Services
PJ DEVELOPMENT LLC	RUSSIA	Services
PJ WESTERN RETAIL INVESTMENTS LTD II	RUSSIA	Services
PLATINUM BANK OPEN JOINT STOCK COMPANY	UKRAINE	Financial Services
PLAZA LOGISTICA S.R.L.	ARGENTINA	Construction
PLAZA LOGISTICA S.R.L. II	ARGENTINA	Construction
PREFABRICADOS Y MODULARES DE MONTERREY(PYMM)	MEXICO	Construction
PROCREDIT HOLDING A.G.	ALL OPIC COUNTRIES	Financial Services
PROCREDIT HOLDING A.G.	ALL OPIC COUNTRIES	Financial Services
PROMOTORA DE INFRAESTRUCTURA REGISTRAL, S.A.	MEXICO	Financial Services
PT BANK ANDARA	INDONESIA	Financial Services
PT. LUMBUNG PADI INDONESIA	INDONESIA	Manufacturing
PT. TUCAN PUMPCO SERVICES INDONESIA	INDONESIA	Energy - Oil and Gas
PT. TUCAN PUMPCO SERVICES INDONESIA	INDONESIA	Energy - Oil and Gas
PTSM HOLDINGS LIMITED/PTS EQUIPMENT LIMITED	NIGERIA	Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
QUANTUMID TECHNOLOGIES (INDIA) PVT. LTD.	INDIA	Services
QWO JOINT STOCK COMPANY	AFGHANISTAN	Manufacturing
QWO JOINT STOCK COMPANY	AFGHANISTAN	Manufacturing
REFORMA BLN-BACKED I	MEXICO	Financial Services
RKU FRANCHISING LIMITED	RUSSIA	Financial Services
RLJ LIBERIA, LLC	LIBERIA	Construction
RODBLU PARTNERS CRP S.A.	COSTA RICA	Construction
ROOT CAPITAL II	ALL OPIC COUNTRIES	Financial Services
ROOT CAPITAL INC.	ALL OPIC COUNTRIES	Financial Services
RPK-VYSOTSK "LUKOIL-II"	RUSSIA	Energy - Oil and Gas
SABLE-CELLCOM TELECOMMUNICATIONS INC	LIBERIA	Communication
SAFI APPAREL CORPORATION	AFGHANISTAN	Manufacturing
SAFI APPAREL CORPORATON	AFGHANISTAN	Manufacturing
SALVATIERRA DESARROLLOS URBANOS, S.A. DE C.V	MEXICO	Financial Services
SANTE GMT PRODUCTS LLC	GEORGIA	Manufacturing
SANTE GMT PRODUCTS, LLC	GEORGIA	Manufacturing
SEAF SME DEBT FACILITY LLC (MATRAS SA)	POLAND	Services
SEAF SME DEBT FACILITY LLC (SUNSHINE EXPORT)	PERU	Agriculture
SEAF-FBT AD (JIMMY'S)	BULGARIA	Services
SEKER MORTGAGE FINANSMAN A.S.	TURKEY	Financial Services
SERVICIO GRAFICOS QUIPUS	BOLIVIA	Manufacturing
SHARED INTEREST, INC.	SOUTH AFRICA	Financial Services
SLID INDUSTRIES, LTD.	GHANA	Manufacturing
SOCIEDAD CONCESIONARIA VESPUCIO NORTE EXPRES	CHILE	Construction
SOLARIA INDIA PRIVATE LIMITED	INDIA	Energy - Power
SOM OTELCILIK VE TURIZM TICARET A.S.	TURKEY	Tourism/Hotels
SOM OTELCILIK VE TURIZM TICARET A.S.	TURKEY	Tourism/Hotels
SOUTH AFRICA FINANCING ENTERPRISE	SOUTH AFRICA	Construction
SSJD BIOENERGY	PAKISTAN	Services
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	Services
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	Manufacturing
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	Services
SUMMIT HOTELS LIMITED/SUMMIT GLOBAL GROUP	IRAQ	Tourism/Hotels
SUNEDISON THAILAND	THAILAND	Energy - Power
SUSTAINABLE ENERGY SERVICES AFGHANISTAN	AFGHANISTAN	Energy - Power
SUSTAINABLE ENERGY SERVICES AFGHANISTAN	AFGHANISTAN	Energy - Power
SWEETWATER PAKISTAN (PRIVATE) LIMITED	PAKISTAN	Manufacturing
TACNA SOLAR S.A.C. AND PANAMERICANA SOLAR	PERU	Energy - Power
TAMEER MICROFINANCE BANK LIMITED	PAKISTAN	Financial Services
TANRUSS INVESTMENT LTD	TANZANIA	Tourism/Hotels
TAYL INVESTORS GROUP LIMITED	AFGHANISTAN	Tourism/Hotels
TAYL INVESTORS GROUP-2	AFGHANISTAN	Tourism/Hotels
TB-AIR DRILLING ASSOCIATES	ALL OPIC COUNTRIES	Energy - Oil and Gas

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
TB-ANDREW & WILLIAMSON FRESH PRODUCE	MEXICO	Agriculture
TB-ANDREWS Y WILLIAMSON	MEXICO	Agriculture
TBC KREDIT NON-BANKING CREDIT ORGANIZATI LLC	AZERBAIJAN	Financial Services
TBC KREDIT NON-BANKING CREDIT ORGANIZATI LLC	AZERBAIJAN	Financial Services
TB-DRISCOLL STRAWBERRY ASSOCIATES, INC.	CHILE	Agriculture
TB-JBR, INC (II)	LATIN AMERICA REGION	Agriculture
TB-WISENBAKER	BRAZIL	Manufacturing
TELIANI VALLEY JSC	GEORGIA	Manufacturing
THANEAKEA PHUM CAMBODIA	CAMBODIA	Financial Services
THANEAKEA PHUM CAMBODIA II	CAMBODIA	Financial Services
THE ATLANTIC	IRAQ	Construction
THE COOPERATIVE HOUSING FOUNDATION	ROMANIA	Financial Services
THE COOPERATIVE HOUSING FOUNDATION LEBANON	LEBANON	Financial Services
TIVANNAH GLOBAL, LIMITADA	ANGOLA	Manufacturing
TPL PROPERTIES (PVT) LIMITED	PAKISTAN	Construction
TRIPOS INTERNATIONAL SCHOOL, PVT. LTD.	INDIA	Services
TURKIYE GARANTI BANKASI A.S.	TURKEY	Financial Services
UMBRALCAPITAL, S.A.P.I. DE C.V.	MEXICO	Financial Services
UNION GLOBAL PARTNERS LIMITED	NIGERIA	Financial Services
UNIVERSITY OF GEORGIA	GEORGIA	Services
VEHICULOS LIQUIDOS FINANCIEROS SAPI DE C.V.	MEXICO	Financial Services
VERIDA CREDIT IFN S.A.	ROMANIA	Financial Services
W2-TURK EKONOMI BANKASI A.S.	TURKEY	Financial Services
W3-BANCO FIBRA, S.A.	BRAZIL	Financial Services
W3-BANCO FINANCIERA COMERCIAL HONDURENA, S.A	HONDURAS	Financial Services
W3-BANCO FINANCIERO DEL PERU, S.A.	PERU	Financial Services
W3-BANCO INDUSTRIAL E COMERCIAL S.A.	BRAZIL	Financial Services
W3-BANCO INTERAMERICANO DE FINANZAS, S.A.	PERU	Financial Services
W3-BANCO PINE, S.A.	BRAZIL	Financial Services
W3-BANCO REFORMADOR, S.A.	GUATEMALA	Financial Services
W3-BANCO SAFRA S.A.	BRAZIL	Financial Services
W3-BANKPOZITIF KREDIT VE KALKINAM BANKASI	TURKEY	Financial Services
W3-CREDICORP BANK	PANAMA	Financial Services
W3-CREDICORP BANK, S.A.	PANAMA	Financial Services
W3-MULTIBANK, INC.	PANAMA	Financial

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
		Services
W3-SEKERBANK A.S.	TURKEY	Financial Services
W3-TURKIYE GARANTI BANKASI AS	TURKEY	Financial Services
W3-YES BANK LIMITED	INDIA	Financial Services
WANACHI GROUP HOLDINGS LTD	AFRICA REGIONAL	Communication
WBC -OPERADORA DE SERVICIOS MEGA, S.A. DE C.	MEXICO	Financial Services
WBC-AFRICAN BANKING CORPORATION TANZANIA LTD	TANZANIA	Financial Services
WBC-AIR WORKS INDIA	INDIA	Transportation
WBC-ANALISTAS DE RECURSOS GLOBALES SAPI	MEXICO	Financial Services
WBC-ARDSHININVESTBANK CJSC	ARMENIA	Financial Services
WBC-ATLANTIC GROUP LIMITED	UKRAINE	Services
WBC-BANCO CATHAY DE COSTA RICA S.A.	COSTA RICA	Financial Services
WBC-BANCO IMPROSA S.A.	COSTA RICA	Financial Services
WBC-BANCO REGIONAL DO KEVE S.A.	ANGOLA	Financial Services
WBC-BANK OF GEORGIA	GEORGIA	Financial Services
WBC-BLUE FINANCIAL SERVICES LIMITED	SOUTH AFRICA	Financial Services
WBC-COMERCIAL LAEISZ, S.A. DE C.V.	HONDURAS	Services
WBC-CREDIT-MOSCOW BANK JOINT STOCK COMPANY	RUSSIA	Financial Services
WBC-DEGRESS HOLDINGS LIMITED	UKRAINE	Services
WBC-DELTA PLASTIK ENDUSTRISI A.S.	TURKEY	Manufacturing
WBC-DELTA PLASTIK ENDUSTRISI A.S.	TURKEY	Manufacturing
WBC-DELTA PLASTIK ENDUSTRISI A.S.	TURKEY	Manufacturing
WBC-DOCUFORMAS S.A.P.I. DE C.V.	MEXICO	Financial Services
WBC-FINANCIERA DESYFIN S.A.	COSTA RICA	Financial Services
WBC-GEORGIAN LEASING COMPANY, LLC	GEORGIA	Financial Services
WBC-ICS PRIME CAPITAL SRL	MOLDOVA	Financial Services
WBC-IM OMF MICROINVEST S.R.L.	MOLDOVA	Financial Services
WBC-INDEPENDENT LEASING, LLC	RUSSIA	Financial Services
WBC-INTERFARMA TIBBI MALZEMELER SANAYI VE TI	TURKEY	Manufacturing
WBC-JSC BASISBANK	GEORGIA	Financial Services
WBC-JSC BASISBANK	GEORGIA	Financial Services
WBC-JSC BASISBANK II	GEORGIA	Financial Services
WBC-JSC POLIGRAF LAND	RUSSIA	Manufacturing
WBC-KELLEY GRAINS CORPORATION S.R.L.	MOLDOVA	Manufacturing
WBC-MARICULTURA DEL NORTE, S.DE R.L. DE C.V.	MEXICO	Agriculture
WBC-MUGANBANK OJSC	AZERBAIJAN	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
WBC-NBD BANK JOINT STOCK COMPANY	RUSSIA	Financial Services
WBC-NBD BANK JOINT STOCK COMPANY	RUSSIA	Financial Services
WBC-NUEVOS ALMACENES S.A. D/B/A/ CEMACO	GUATEMALA	Services
WBC-OJSC COMMERCIAL BANK "SDM-BANK"	RUSSIA	Financial Services
WBC-OJSC SDM-BANK (II)	RUSSIA	Financial Services
WBC-PETERSBURG SOCIAL COMMERCIAL BANK OJSC	RUSSIA	Financial Services
WBC-PREFERRED BRANDS INTERNATIONAL (III)	INDIA	Manufacturing
WBC-PREFERRED BRANDS INTERNATIONAL, LLC	INDIA	Manufacturing
WBC-PREFERRED BRANDS INTERNATIONAL, LLC	INDIA	Manufacturing
WBC-PUBLIC JOINT STOCK COMPANY MEGABANK	UKRAINE	Financial Services
WBC-RABITABANK OJSC	AZERBAIJAN	Financial Services
WBC-RABITABANK OJSC	AZERBAIJAN	Financial Services
WBC-SFC ENTEGRE ORMAN URUNLERI SANAYI VE TIC	TURKEY	Manufacturing
WBC-SOUTHERN VALLEY FRUIT & VEGETABLE, INC.	MEXICO	Agriculture
WBC-SPENCON INTERNATIONAL LIMITED	AFRICA REGIONAL	Construction
WBC-TURANBANK OJSC	AZERBAIJAN	Financial Services
WBC-VALLARTA VISION Y MISION A.C.	MEXICO	Services
WBC-ZAO AIRES	RUSSIA	Services
WBC-ZAO AIRES	RUSSIA	Services
WINNER GROUP UKRAINE, INC.	UKRAINE	Services
ZAO COMMERCIAL BANK DELTACREDIT	RUSSIA	Financial Services
ZAO EUROPLAN	RUSSIA	Financial Services
ZAO NUMOTECH-SPEKTR	RUSSIA	Manufacturing
ZAO STAR NETWORKS	RUSSIA	Communication
ZBE PARTNERS EAD	BULGARIA	Energy - Power

PROJECT	COUNTRY	SECTOR
FUNDS		
AAF SUB-FUND	AFRICA REGIONAL	Financial Services
ACCELERATOR TECHNOLOGY AND INNOVATION FUND	MIDDLE EAST REGIONAL	Financial Services
ACF INVESTMENTS B, LTD.	LATIN AMERICA REGION	Financial Services
ACF INVESTMENTS C, LTD.	LATIN AMERICA REGION	Financial Services
ACF INVESTMENTS, LTD.	LATIN AMERICA REGION	Financial Services
ACF INVESTORS, LTD.	LATIN AMERICA REGION	Financial Services
ACF INVESTORS, LTD.	LATIN AMERICA REGION	Financial Services
AFRICA TELECOM, MEDIA & TECHNOLOGY FUND LLC	AFRICA REGIONAL	Financial Services
ALSIS LATIN AMERICA FUND, L.P.	LATIN AMERICA REGION	Financial Services
ALSIS MEXICO OPPORTUNITIES FUND	MEXICO	Financial Services

PROJECT FUNDS	COUNTRY	SECTOR
AQUA PARTNERS LP	ALL OPIC COUNTRIES	Financial Services
ASIA DEVELOPMENT PARTNERS II, L.P.	ASIA REGIONAL	Financial Services
ASIA DEVELOPMENT PARTNERS III, LP	INDIA	Financial Services
CAPITAL ALLIANCE PROPERTY INVESTMENT CO., LP	NIGERIA	Financial Services
CLEARWATER CAPITAL PARTNERS INVESTMENTSII LP	ASIA REGIONAL	Financial Services
CLEARWATER CAPITAL PARTNERS IV, L.P.	ASIA REGIONAL	Financial Services
DARBY-PROBANCO HOLDINGS, L.P.	LATIN AMERICA REGION	Financial Services
ECP AFRICA FIII INVESTMENTS LLC	AFRICA REGIONAL	Financial Services
ECP AFRICA FIII INVESTMENTS LLC	AFRICA REGIONAL	Financial Services
ECP AFRICA FUND II INVESTMENTS LLC	AFRICA REGIONAL	Financial Services
ECP MENA GROWTH FII LLC	MIDDLE EAST REGIONAL	Financial Services
ETHOS PRIVATE EQUITY FUND V	AFRICA REGIONAL	Financial Services
FCP FUND	JORDAN	Financial Services
FONDO ALSIS MEXICO DE VIVIENDA DE INTERES SO	LATIN AMERICA REGION	Financial Services
HELIOS INVESTORS II AFRICA, LTD.	AFRICA REGIONAL	Financial Services
HELIOS SUB-SAHARAN AFRICA FUND I, L.P.	AFRICA REGIONAL	Financial Services
INFRACO SUB-SAHARA INFRASTRUCTURE FUND	AFRICA REGIONAL	Financial Services
LATIN POWER III INVESTMENTS, L.P.	LATIN AMERICA REGION	Financial Services
MEACP CLEAN ENERGY FUND II L.P.	ASIA REGIONAL	Financial Services
PALADIN REALTY LATIN AMERICA INVESTORS II,LP	LATIN AMERICA REGION	Financial Services
PALADIN REALTY LATIN AMERICA INVESTORS III	LATIN AMERICA REGION	Financial Services
RIYADA ENTERPRISE DEV CAPITAL GROWTH FUND	MIDDLE EAST REGIONAL	Financial Services
RUSSIA PARTNERS II "O" SERIES, L.P.	NIS REGIONAL	Financial Services
SACEF HOLDINGS	ASIA REGIONAL	Financial Services
SARONA FRONTIER MARKETS FUND II LP	ALL OPIC COUNTRIES	Financial Services
SAWHF PVE (SA)	SOUTH AFRICA	Financial Services
SIGMABLEYZER SOUTHEAST EUROPEAN FUND IV	UKRAINE	Financial Services
SIRAJ PALESTINE FUND I	WEST BANK	Financial Services
SOUTHEAST EUROPE EQUITY FUND II, L.P.	EUROPE REGIONAL	Financial Services
THE GREAT CIRCLE FUND L.P. (MISF)	ALL OPIC COUNTRIES	Financial Services
USRG EMERGING MARKETS FUND, LP	ALL OPIC COUNTRIES	Financial Services
VIRGIN GREEN FUND GLOBAL I, L.P.	ALL OPIC COUNTRIES	Financial Services

PROJECT INSURANCE	COUNTRY	SECTOR
ABI GROUP LTD	AFGHANISTAN	Manufacturing
ABI GROUP LTD	AFGHANISTAN	Manufacturing
ARC CONSTRUCTION CO LLC	AFGHANISTAN	Construction
ABI Group	AFGHANISTAN	Manufacturing
ASIA FOUNDATION	AFGHANISTAN	Services
ASIA FOUNDATION	AFGHANISTAN	Services
CHEMONICS INTERNATIONAL INC	AFGHANISTAN	Services

PROJECT	COUNTRY	SECTOR
INSURANCE		
DEVELOPMENT ALTERNATIVES INC. (DAI)	AFGHANISTAN	Services
INTERNATIONAL HOME FINANCE & DEVELOPMENT, LLC (IHFD)	AFGHANISTAN	Services
International Rescue Committee	AFGHANISTAN	Services
INTERNATIONAL RESCUE COMMITTEE	AFGHANISTAN	Services
RELIEF INTERNATIONAL	AFGHANISTAN	Services
RELIEF INTERNATIONAL	AFGHANISTAN	Services
SAFI APPAREL CORP	AFGHANISTAN	Manufacturing
CHEMONICS INTERNATIONAL INC	ALBANIA	Services
CHEMONICS INTERNATIONAL INC	ANGOLA	Services
PLANT-TECH CONCRETE SOLUTIONS LLC	ANGOLA	Manufacturing
SEABOARD OVERSEAS LTD	ANGOLA	Manufacturing
CHEMONICS INTERNATIONAL INC	ANTIGUA/BARBUDA	Services
MARTINEZ, PHILIP C	ARGENTINA	Agriculture
CHEMONICS INTERNATIONAL INC	ARMENIA	Services
MICROVEST SHORT-DURATION FUND LP	ARMENIA	Financial Services
BTC PIPELINE PROJECT TWO THOUSAND THREE TRUST	AZERBAIJAN	Energy - Oil and Gas
CHEMONICS INTERNATIONAL INC	AZERBAIJAN	Services
DEVELOPMENT ALTERNATIVES INC. (DAI)	AZERBAIJAN	Services
MICROVEST + PLUS LP	AZERBAIJAN	Financial Services
MICROVEST + PLUS LP	AZERBAIJAN	Financial Services
MICROVEST + PLUS LP	AZERBAIJAN	Financial Services
RELIEF INTERNATIONAL	AZERBAIJAN	Services
RELIEF INTERNATIONAL	AZERBAIJAN	Services
ASIA FOUNDATION	BANGLADESH	Services
ASIA FOUNDATION	BANGLADESH	Services
CHEMONICS INTERNATIONAL INC	BANGLADESH	Services
DEVELOPMENT ALTERNATIVES INC. (DAI)	BANGLADESH	Services
RELIEF INTERNATIONAL	BANGLADESH	Services
RELIEF INTERNATIONAL	BANGLADESH	Services
STEADFAST INSURANCE CO	BENIN	Energy - Oil and Gas
CHEMONICS INTERNATIONAL INC	BOLIVIA	Services
COEUR D ALENE MINES CORP	BOLIVIA	Mining
DELPHOS INTERNATIONAL LTD	BOLIVIA	Communication
CHEMONICS INTERNATIONAL INC	BOSNIA-HERZEGOVINA	Services
CHEMONICS INTERNATIONAL INC	BOTSWANA	Services
BANK OF NEW YORK	BRAZIL	Communication
NATIONAL CITY BANK	BRAZIL	Financial Services
SAMBA INC	BRAZIL	Manufacturing

PROJECT	COUNTRY	SECTOR
INSURANCE		
CHEMONICS INTERNATIONAL INC	BURUNDI	Services
INTERNATIONAL RESCUE COMMITTEE	BURUNDI	Services
ASIA FOUNDATION	CAMBODIA	Services
ASIA FOUNDATION	CAMBODIA	Services
TERRA GLOBAL CAPITAL, LLC	CAMBODIA	Services
ACCESS AFRICA FUND L L C	CAMEROON	Financial Services
INTERNATIONAL RESCUE COMMITTEE	CENTRAL AFRICAN REPUBLIC	Services
INTERNATIONAL RESCUE COMMITTEE	CHAD	Services
MICROVEST + PLUS LP	COLOMBIA	Financial Services
MICROVEST + PLUS LP	COLOMBIA	Financial Services
MICROVEST SHORT-DURATION FUND LP	COLOMBIA	Financial Services
SECTOR RESOURCES LTD	COLOMBIA	Mining
Sector Resources, LTD	COLOMBIA	Mining
TERMOVALLE INVESTMENT CO L L C	COLOMBIA	Energy - Power
SEABOARD OVERSEAS LTD	CONGO	Manufacturing
SEABOARD OVERSEAS LTD	CONGO	Manufacturing
CHEMONICS INTERNATIONAL INC	CONGO, DEM. REPUBLIC OF	Services
INTERNATIONAL RESCUE COMMITTEE	CONGO, DEM. REPUBLIC OF	Services
International Rescue Committee	CONGO, DEM. REPUBLIC OF	Services
SEABOARD OVERSEAS LTD	CONGO, DEM. REPUBLIC OF	Manufacturing
SEABOARD OVERSEAS LTD	CONGO, DEM. REPUBLIC OF	Manufacturing
SEABOARD OVERSEAS LTD	CONGO, DEM. REPUBLIC OF	Manufacturing
INTERNATIONAL RESCUE COMMITTEE	COTE DIVOIRE	Services
MONDOIL ENTERPRISES L L C	COTE DIVOIRE	Energy - Oil and Gas
MONDOIL ENTERPRISES L L C	COTE DIVOIRE	Energy - Oil and Gas
ADRIATIC INVESTMENT MANAGEMENT L L C	CROATIA	Financial Services
CHEMONICS INTERNATIONAL INC	DJIBOUTI	Services
CHEMONICS INTERNATIONAL INC	DOMINICA	Services
DOMINICA PRIVATE POWER LTD	DOMINICA	Energy - Power
CHEMONICS INTERNATIONAL INC	DOMINICAN REPUBLIC	Services
ASIA FOUNDATION	EAST TIMOR	Services
ASIA FOUNDATION	EAST TIMOR	Services
AMERICAN HOME ASSURANCE CO	ECUADOR	Transportation
AMERICAN HOME ASSURANCE CO	ECUADOR	Transportation
CHEMONICS INTERNATIONAL INC	ECUADOR	Services
MICROVEST + PLUS LP	ECUADOR	Financial Services
MICROVEST SHORT-DURATION FUND LP	ECUADOR	Financial Services

PROJECT	COUNTRY	SECTOR
INSURANCE		
MICROVEST SHORT-DURATION FUND LP	ECUADOR	Financial Services
MICROVEST SHORT-DURATION FUND LP	ECUADOR	Financial Services
MICROVEST SHORT-DURATION FUND LP	ECUADOR	Financial Services
APACHE CORP	EGYPT	Energy - Oil and Gas
APACHE CORP	EGYPT	Energy - Oil and Gas
CHEMONICS INTERNATIONAL INC	EGYPT	Services
CITIBANK NA	EGYPT	
CHEMONICS INTERNATIONAL INC	EL SALVADOR	Services
CHEMONICS INTERNATIONAL INC	ETHIOPIA	Services
INTERNATIONAL RESCUE COMMITTEE	ETHIOPIA	Services
OVERSEAS DEVELOPMENT & INVESTMENT CO	GABON	Construction
CHEMONICS INTERNATIONAL INC	GEORGIA	Services
INTERNATIONAL RESCUE COMMITTEE	GEORGIA	Services
MICROVEST + PLUS LP	GEORGIA	Financial Services
MICROVEST + PLUS LP	GEORGIA	Financial Services
MICROVEST + PLUS LP	GEORGIA	Financial Services
MICROVEST SHORT-DURATION FUND LP	GEORGIA	Financial Services
MICROVEST SHORT-DURATION FUND LP	GEORGIA	Financial Services
MICROVEST SHORT-DURATION FUND LP	GEORGIA	Financial Services
BELSTAR CAPITAL LIMITED	GHANA	Construction
BELSTAR CAPITAL LIMITED	GHANA	Services
BELSTAR DEVELOPMENT L L C	GHANA	Services
BELSTAR DEVELOPMENT L L C	GHANA	Services
CHEMONICS INTERNATIONAL INC	GHANA	Services
G H L U S A INVESTMENT PARTNERS	GHANA	Financial Services
STEADFAST INSURANCE CO	GHANA	Energy - Oil and Gas
THREE E KUMASI INVESTMENT CO L L C	GHANA	Services
W R B ENTERPRISES INC	GRENADA	Energy - Power
CHEMONICS INTERNATIONAL INC	HAITI	Services
CONTINENTAL GRAIN CO	HAITI	Manufacturing
INTERNATIONAL RESCUE COMMITTEE	HAITI	Services
SEABOARD CORP	HAITI	Manufacturing
MEMC ELECTRONICS MATERIALS, INC.	INDIA	Energy - Power
MEMC ELECTRONICS MATERIALS, INC.	INDIA	Manufacturing
Southern Energy Partners	INDIA	Energy - Power
SOUTHERN ENERGY PARTNERS LLC	INDIA	Energy - Power
SOUTHERN ENERGY PARTNERS LLC	INDIA	Energy - Power
SOUTHERN ENERGY PARTNERS LLC	INDIA	Energy - Power
ASIA FOUNDATION	INDONESIA	Services

PROJECT	COUNTRY	SECTOR
INSURANCE		
ASIA FOUNDATION	INDONESIA	Services
CHEMONICS INTERNATIONAL INC	INDONESIA	Services
RELIEF INTERNATIONAL	INDONESIA	Services
RELIEF INTERNATIONAL	INDONESIA	Services
TUCAN PETROLEUM INDONESIA L L C	INDONESIA	Energy - Oil and Gas
INTERNATIONAL RESCUE COMMITTEE	IRAQ	Services
KHUDAIRI, AZIZ	IRAQ	Services
CHEMONICS INTERNATIONAL INC	JORDAN	Services
CITIBANK NA	JORDAN	
GENERAL ELECTRIC CAPITAL CORPORATION	JORDAN	Services
INTERNATIONAL RESCUE COMMITTEE	JORDAN	Services
RELIEF INTERNATIONAL	JORDAN	Services
RELIEF INTERNATIONAL	JORDAN	Services
CHEMONICS INTERNATIONAL INC	KAZAKHSTAN	Services
MICROVEST + PLUS LP	KAZAKHSTAN	Financial Services
MICROVEST SHORT-DURATION FUND LP	KAZAKHSTAN	Financial Services
CHEMONICS INTERNATIONAL INC	KENYA	Services
INTERNATIONAL RESCUE COMMITTEE	KENYA	Services
ASIA FOUNDATION	KOREA (SOUTH)	Services
ASIA FOUNDATION	KOREA (SOUTH)	Services
GENWORTH MORTGAGE INSURANCE CORP	KOREA (SOUTH)	Financial Services
CHEMONICS INTERNATIONAL INC	KOSOVO	Services
CHEMONICS INTERNATIONAL INC	KYRGYZ REPUBLIC	Services
AMERICAN UNIVERSITY OF BEIRUT	LEBANON	Services
CHEMONICS INTERNATIONAL INC	LEBANON	Services
INTERNATIONAL COLLEGE	LEBANON	Services
LEBANESE AMERICAN UNIVERSITY	LEBANON	Services
NATIONAL CITY BANK	LEBANON	Financial Services
RELIEF INTERNATIONAL	LEBANON	Services
RELIEF INTERNATIONAL	LEBANON	Services
SEABOARD OVERSEAS LIMITED	LESOTHO	Manufacturing
BROAD COVE ECOHOMES LIBERIA, INC	LIBERIA	Construction
INTERNATIONAL RESCUE COMMITTEE	LIBERIA	Services
Kwapla Intl Trading Co.	LIBERIA	Services
KWAPLAH INTERNATIONAL TRADING CO INC	LIBERIA	Services
R L J COMPANIES	LIBERIA	Tourism/Hotels
SEABOARD CORP	MADAGASCAR	Manufacturing
CHEMONICS INTERNATIONAL INC	MALAWI	Services
AMERICAN INTERNATIONAL SCHOOL OF BAMAKO FOUNDATION INC	MALI	Services

PROJECT	COUNTRY	SECTOR
INSURANCE		
MICROVEST SHORT-DURATION FUND LP	MEXICO	Financial Services
WADE RAIN INC	MEXICO	Services
CHEMONICS INTERNATIONAL INC	MOLDOVA	Services
DEVELOPMENT ALTERNATIVES INC. (DAI)	MOLDOVA	Services
ASIA FOUNDATION	MONGOLIA	Services
ASIA FOUNDATION	MONGOLIA	Services
CHEMONICS INTERNATIONAL INC	MONGOLIA	Services
CHEMONICS INTERNATIONAL INC	MOROCCO	Services
CHEMONICS INTERNATIONAL INC	MOZAMBIQUE	Services
ASIA FOUNDATION	NEPAL	Services
ASIA FOUNDATION	NEPAL	Services
CHEMONICS INTERNATIONAL INC	NEPAL	Services
CHEMONICS INTERNATIONAL INC	NICARAGUA	Services
ZAMORA, ROBERTO	NICARAGUA	Financial Services
CHEMONICS INTERNATIONAL INC	NIGER	Services
A E S NIGERIA HOLDINGS LTD	NIGERIA	Energy - Power
AMERICAN INTERNATIONAL SCHOOL OF ABUJA FOUNDATION INC	NIGERIA	Services
American Int'l School of Abuja	NIGERIA	
CG SOLUTIONS GLOBAL HOLDING CO	NIGERIA	Energy - Power
CG Solutions Global Holding Co	NIGERIA	Energy - Power
CG Solutions Global Holding Co	NIGERIA	Energy - Power
CG Solutions Global Holding Co	NIGERIA	Energy - Power
CG SOLUTIONS GLOBAL HOLDING CO	NIGERIA	Energy - Power
CG SOLUTIONS GLOBAL HOLDING CO	NIGERIA	Energy - Power
CHEMONICS INTERNATIONAL INC	NIGERIA	Services
ASIA FOUNDATION	PAKISTAN	Services
ASIA FOUNDATION	PAKISTAN	Services
CHEMONICS INTERNATIONAL INC	PAKISTAN	Services
CITIBANK NA	PAKISTAN	
HYPERBARIC TECHNOLOGIES INC	PAKISTAN	Services
INTERNATIONAL RESCUE COMMITTEE	PAKISTAN	Services
RELIEF INTERNATIONAL	PAKISTAN	Services
RELIEF INTERNATIONAL	PAKISTAN	Services
CHEMONICS INTERNATIONAL INC	PANAMA	Services
CHEMONICS INTERNATIONAL INC	PARAGUAY	Services
CHEMONICS INTERNATIONAL INC	PERU	Services
L F L P HOLDINGS L L C	PERU	Financial Services
L F L P HOLDINGS L L C	PERU	Services
LUCENTE FAMILY PROPERTIES LLC	PERU	Services

PROJECT	COUNTRY	SECTOR
INSURANCE		
LUCENTE FAMILY PROPERTIES LLC	PERU	Financial Services
ASIA FOUNDATION	PHILIPPINES	Services
ASIA FOUNDATION	PHILIPPINES	Services
CHEMONICS INTERNATIONAL INC	PHILIPPINES	Services
MIDAMERICAN ENERGY HOLDINGS CO	PHILIPPINES	Energy - Power
MidAmerican Energy Holdings Co	PHILIPPINES	Energy - Power
MIDAMERICAN ENERGY HOLDINGS CO INC	PHILIPPINES	Energy - Power
U S BANK NATIONAL ASSOCIATION	PHILIPPINES	Energy - Power
Asia Foundation	RISK	
Citibank NA	RISK	
Development Alternatives, Inc.	RISK	
International Rescue Committee	RISK	
Relief International	RISK	
A C D RESEARCH INC	RUSSIA	Services
A C D RESEARCH INC	RUSSIA	Services
Global Forestry Management	RUSSIA	Construction
INTERNATIONAL RESCUE COMMITTEE	RUSSIA	Services
MORGAN STANLEY INCORPORATED	RUSSIA	Financial Services
WESTERN RETAIL DEVELOPMENT L L C	RUSSIA	Services
CHEMONICS INTERNATIONAL INC	RWANDA	Services
INTERNATIONAL RESCUE COMMITTEE	RWANDA	Services
TEA IMPORTERS INC	RWANDA	Manufacturing
INTERNATIONAL RESCUE COMMITTEE	SIERRA LEONE	Services
INTERNATIONAL RESCUE COMMITTEE	SOMALIA	Services
RELIEF INTERNATIONAL	SOMALIA	Services
RELIEF INTERNATIONAL	SOMALIA	Services
CHEMONICS INTERNATIONAL INC	SOUTH AFRICA	Services
INTERNATIONAL RESCUE COMMITTEE	SOUTH SUDAN	Services
ASIA FOUNDATION	SRI LANKA	Services
ASIA FOUNDATION	SRI LANKA	Services
RELIEF INTERNATIONAL	SRI LANKA	Services
RELIEF INTERNATIONAL	SRI LANKA	Services
CHEMONICS INTERNATIONAL INC	TAJKISTAN	Services
RELIEF INTERNATIONAL	TAJKISTAN	Services
RELIEF INTERNATIONAL	TAJKISTAN	Services
CHEMONICS INTERNATIONAL INC	TANZANIA	Services
INTERNATIONAL RESCUE COMMITTEE	TANZANIA	Services
ASIA FOUNDATION	THAILAND	Services
ASIA FOUNDATION	THAILAND	Services

PROJECT	COUNTRY	SECTOR
INSURANCE		
INTERNATIONAL RESCUE COMMITTEE	THAILAND	Services
CONTOURGLOBAL TOGO L L C	TOGO	Energy - Power
STEADFAST INSURANCE CO	TOGO	Energy - Oil and Gas
BUTLER, MARK	TURKEY	Tourism/Hotels
BUTLER, TAYYIBE EREN	TURKEY	Tourism/Hotels
BUTLER, YASHA	TURKEY	Tourism/Hotels
BLANCHARD T C I LTD	TURKS & CAICOS ISLANDS	Communication
ACCESS AFRICA FUND L L C	UGANDA	Financial Services
ACCESS AFRICA FUND LLC	UGANDA	Financial Services
CHEMONICS INTERNATIONAL INC	UGANDA	Services
INTERNATIONAL RESCUE COMMITTEE	UGANDA	Services
AMSTED RAIL COMPANY INC	UKRAINE	Manufacturing
CHEMONICS INTERNATIONAL INC	UKRAINE	Services
CONTOURGLOBAL SOLUTIONS HOLDING COMPANY L L C	UKRAINE	Energy - Power
TRANSNATIONAL RESOURCE L L C	UKRAINE	Services
O & S CONSULTING	UZBEKISTAN	Tourism/Hotels
O&S CONSULTING LLC	UZBEKISTAN	Tourism/Hotels
O&S Consulting, LLC	UZBEKISTAN	Tourism/Hotels
T I S LTD	UZBEKISTAN	Services
Caterpillar Financial Services	VENEZUELA	Transportation
CATERPILLAR FINANCIAL SERVICES CORP	VENEZUELA	Transportation
CHEMONICS INTERNATIONAL INC	VIETNAM	Services
CHEMONICS INTERNATIONAL INC	WEST BANK & GAZA	Services
MORGANTI DEVELOPMENT L L C	WEST BANK & GAZA	Energy - Power
MORGANTI DEVELOPMENT L L C	WEST BANK & GAZA	Energy - Power
RELIEF INTERNATIONAL	WEST BANK & GAZA	Services
RELIEF INTERNATIONAL	WEST BANK & GAZA	Services
American Embassy Lusaka	ZAMBIA	Services
AMERICAN EMBASSY SCHOOL OF LUSAKA FOUNDATION INC	ZAMBIA	Services
CHEMONICS INTERNATIONAL INC	ZAMBIA	Services
SEABOARD OVERSEAS LIMITED	ZAMBIA	Manufacturing
INTERNATIONAL RESCUE COMMITTEE	ZIMBABWE	Services

PROJECT	COUNTRY	SECTOR
NON HONERING SOVEREIGN GUARANTEE		
HRVATSKE AUTOCESTE D.O.O.	CROATIA	Construction
ISAGEN S.A. E.S.P.	COLOMBIA	Energy - Power
ISRAEL ELECTRIC CORPORATION LTD.	ISRAEL	Energy - Oil and Gas

APPENDIX C – PROJECT EMISSIONS CALCULATIONS

This appendix contains the inputs, sources of those inputs, and calculations used to estimate the emissions for each of the projects in OPIC’s 2011 GHG Inventory. If applicant feedback was submitted in the years from 2007-2010, operational emissions estimates from those years were also included.

TIER A PROJECTS – BASED ON APPLICANT-PROVIDED FUEL CONSUMPTION DATA

AES Jordan

Maximum Potential to Emit Estimate

AES Jordan’s emissions estimate of **1,288,809 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	370 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	395 g CO ₂ /kWh	International Finance Corporation, Guidance Note 3, Annex A section A-(i)

Capacity-based maximum potential to emit = 1,288,809 short tons of CO_{2e} per year

$$370\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{395\text{gCO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

AES Jordan was under construction and not operational during 2007. Since emissions from construction would be below the 100,000 short ton threshold, this project was omitted from the 2007 inventory.

2008 Operational Emissions Estimate Based On Applicant Feedback

AES Jordan’s operational emissions estimate of **590,940 short tons of CO_{2e}** for 2008 was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Applicant
Net Energy Generated	10,103,603 MMBtu	Project Applicant
Emission Factor	53.06 kg CO ₂ /MMBtu	TCR, Table 12.1

Consumption-based emissions = 590,940 short tons of CO_{2e} per year

$$10,103,603 \text{ MMBtu} * \frac{53.06 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2009 Operational Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **1,318,130 short tons of CO_{2e}** for 2009 was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Applicant
Net Energy Generated	22,536,748 MMBtu	Project Applicant
Emission Factor	53.06 kg CO ₂ /MMBtu	TCR, Table 12.1

Consumption-based emissions = 1,318,130 short tons CO_{2e} per year

$$22,536,748 \text{ MMBtu} * \frac{53.06 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **1,434,569 short tons of CO_{2e}** for 2010 was calculated using the following information:

Data	Value	Source
Unit 1 Emissions	678,706,541 kgCO ₂	Project Applicant
Unit 2 Emissions	622,726,311 kgCO ₂	Project Applicant

Consumption-based emissions = 1,434,569 short tons of CO_{2e} per year

$$(678,706,541 \text{ kgCO}_2 + 622,726,311 \text{ kgCO}_2) * \frac{0.0011023 \text{ short tons}}{\text{Kg}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **1,184,010 short tons of CO_{2e}** for 2011 was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas & Diesel	Project Applicant
Total Natural Gas Consumption	11,618,556 MMBtu	Project Applicant
Total Diesel Consumption	6,256,271 MMBtu	Project Applicant
Emission Factor Natural Gas	53.06 kg CO ₂ /MMBtu	TCR, Table 12.1
Emissions Factor Diesel	73.15 kg CO ₂ /MMBtu	The Climate Registry, Table 12-1

Consumption-based emissions = 1,184,010 short tons CO_{2e} per year

$$11,618,556 \text{ MMBtu} * \frac{53.06 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} +$$

$$6,256,271 \text{ MMBtu} * \frac{73.15 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

Contour Global – Togo

Maximum Potential to Emit Estimate

Contour Global Togo's emissions estimate of **581,133 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Fuel Oil	Project Description
Capacity	100 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	659 g CO ₂ /kWh	International Finance Corporation, Guidance Note 3, Annex A section A-(i)

Capacity-based maximum potential to emit = 581,133 short tons of CO_{2e} per year

$$100\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{659 \text{ gCO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

Contour Global's 2011 operational emissions estimate of **46,561 short tons CO_{2e}** was calculated using the following information:

Data	Value	Source
2011 Emissions	42,239,975 kg	Project Applicant
Conversion Factor	0.0011023 short ton/kg	TCR, Appendix 3

2011 consumption-based emissions = 46,561 short tons of CO_{2e} per year

$$42,239,975 \text{ kg} * \frac{0.0011023 \text{ short ton}}{\text{kg}}$$

Grenada Electricity Services (WRB)

Maximum Potential to Emit Estimate

Grenada Electricity Services (WRB)'s emissions estimate of **104,604 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Capacity	18 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	659 g CO ₂ /kWh	International Finance Corporation, Guidance Note 3, Annex A section A-(i)

Capacity-based maximum potential to emit = 104,604 short tons of CO_{2e} per year

$$18\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{659\text{gCO}_2}{\text{kWh}} * \frac{0.0000011023\text{ short tons}}{\text{g}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

Grenada Electricity Services (WRB)'s 2007 operational emissions estimate of **114,571 short tons CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Fuel Consumption	10,821,042 gallons	Project Applicant
Heat Rate	8013 Btu/kWh	Project Applicant
Diesel LHV	70302 Btu/kg	Project Applicant
Energy Generated	117,323,661 kWh	Project Applicant
Emissions Factor	73.15 kg CO ₂ /MMBtu	The Climate Registry, Table 12-1
2007 Emissions	114,571 short tons	Project Applicant

Consumption-based emissions = 114,571 of short tons CO_{2e} per year

2008 Operational Emissions Estimate Based On Applicant Feedback

Grenada Electricity Services (WRB)s 2008 operational emissions estimate of **121,156 short tons CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Fuel Consumption	11,436,588 gallons	Project Applicant
Heat Rate	8006 Btu/kWh	Project Applicant
Diesel LHV	40306 Btu/kg	Project Applicant
Energy Generated	187,689,464 kWh	Project Applicant
Emissions Factor	73.15 kg CO ₂ /MMBtu	The Climate Registry, Table 12-1
2008 Emissions	121,156 short tons	Project Applicant

Consumption based emissions = 121,156 short tons CO_{2e} per year

2009 Operational Emissions Estimate Based On Applicant Feedback

Grenada Electricity Services (WRB)'s 2009 operational emissions estimate of **141,127 short tons CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Operating Hours	8,760	Project Description
Fuel Consumption	11,905,997 US gallons	Project Applicant
Heat Rate	8,458 kJ/kWh or 8,016 BTU/kWh	Project Applicant
Diesel LHV	42,400 kJ/kg or 40,188 BTU/kg	Project Applicant
Energy Generated	194,279,333 kWh	Project Applicant
Emissions Factor	659 grams CO ₂	The Climate Registry, Table 12-1

Consumption-based emissions = 141,127 short tons of CO_{2e} per year

$$\frac{659 \text{ gCO}_2}{\text{Yr}} * 194,279,333 \text{ kWh} * \frac{0.0000011023 \text{ short tons}}{\text{kg}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

Grenada Electricity Services (WRB)'s 2010 operational emissions estimate of **135,237 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Emissions (Fuel input based)	135,237 short tons CO ₂	Project Applicant

Consumption-based emissions = 135,237 short tons CO_{2e} per year

2011 Operational Emissions Estimate Based On Applicant Feedback

Grenada Electricity Services (WRB)'s 2009 operational emissions estimate of **134,371 short tons CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Fuel Consumption	12,075,555 US gallons	Project Applicant
Emissions Factor	73.15 kg CO ₂ /MMBtu	The Climate Registry, Table 12-1
Conversion Factor	42 gal/bbl	The Climate Registry, Appendix C
Conversion Factor	5.796 MMBtu/bbl	The Climate Registry, Table 12.1
Conversion Factor	907.18 kg/short ton	The Climate Registry, Appendix C

Consumption-based emissions = 134,371 short tons of CO_{2e} per year

$$12,075,555 * \frac{1 \text{ Bbl}}{42 \text{ gal}} * \frac{5.796 \text{ MMBtu}}{1 \text{ bbl diesel}} * \frac{73.15 \text{ kg CO}_2}{\text{MMBtu}} * \frac{\text{short tons}}{907.18 \text{ kg}}$$

Paiton Energy

Maximum Potential to Emit Estimate

Paiton Energy's emissions estimate of **7,938,380 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Coal	Project Description
Capacity	1,200 MW	Project Description
Consumption	4,300,000 short tons/yr	Project Description
Coal Type	Sub-Bituminous	IEA, Coal in Indonesia in 2006
Heat Content Coal	17.25 MMBtu/short ton	The Climate Registry, Table 12.1
Emission Factor	97.09 kg CO ₂ /MMBtu	The Climate Registry, Table 12.1

Consumption-based maximum potential to emit = 7,938,380 short tons of CO_{2e} per year

$$4,300,000 \frac{\text{short tons}}{\text{yr}} * 17.25 \frac{\text{MMBtu}}{\text{short ton}} * 97.09 \frac{\text{kgCO}_2}{\text{MMBtu}} * 0.0011023 \frac{\text{short tons}}{\text{kg}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

Paiton Energy's 2007 operational emissions estimate of **9,553,044 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Coal	Project Description
Capacity	1,200 MW	Project Description
Consumption	4,694,238,000 kg	Project Applicant
Coal Type	Sub-Bituminous	IEA, Coal in Indonesia in 2006
Heat Content Coal	17.25 MMBtu/short ton	The Climate Registry, Table 12.1
Emission Factor	97.09 kg CO ₂ /MMBtu	The Climate Registry, Table 12.1

Consumption-based emissions = 9,553,044 short tons of CO_{2e} per year

$$4,694,238,000 \text{ kg} * \frac{\text{short ton}}{907.18 \text{ kg}} * 17.25 \frac{\text{MMBtu}}{\text{short ton}} * 97.09 \frac{\text{kg CO}_2}{\text{MMBtu}} * \frac{\text{short ton}}{907.18 \text{ kg}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

The applicant provided 2010 data rather than data for 2008. As a result, the 2008 estimate defaulted to 2007 data.

2009 Operational Emissions Estimate Based On Applicant Feedback

Paiton Energy's 2009 operational emissions estimate of **9,624,125 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Coal	Project Description
Capacity	1,220 MW	Project Description
Consumption	4,505,417,000 kg	Project Applicant
Coal Type	Sub-Bituminous	IEA, Coal in Indonesia in 2006
Heat Content Coal	5,077 kcal/kg	The Climate Registry, Table 12.1
Moisture as Received	0.255	2009 yearly average
Ash as Received	0.023	2009 yearly average
C(ultimate analysis)	0.732	2009 yearly average
CO2 Molecular Weight	44	EPA
C Atomic Weight	12	EPA

Consumption-based emissions = 9,624,125 short tons of CO_{2e} per year

$$(4,505,417,000 \text{ kg} * 44/12 * 0.732 * (1-(0.255+0.023))) * \frac{0.0011023 \text{ short ton}}{\text{Kg}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

Paiton Energy's 2010 operational emissions estimate of **9,854,076 short tons of CO_{2e}** was provided as follows:

Data	Value	Source
2010 Emissions	9,854,076 short tons	Project Applicant

2011 Operational Emissions Estimate Based On Applicant Feedback

Paiton Energy's 2011 operational emissions estimate of **10,045,869 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2011 Emissions	10,045,869 short tons	Project Applicant

Consumption-based emissions = 10,045,869 short tons of CO_{2e} per year

TIER A PROJECTS – BASED ON CAPACITY / HEAT CONTENT (CONSUMPTION DATA NOT AVAILABLE)

Adapazari Elektrik Uretim

Maximum Potential to Emit Estimate

Adapazari Elektrik Uretim's emissions estimate of **2,706,499 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	777 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	395 g CO ₂ /kWh	International Finance Corporation, Guidance Note 3, Annex A section A-(i)

Capacity-based maximum potential to emit = 2,706,499 short tons of CO_{2e} per year

$$777\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{395\text{gCO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

Adapazari Elektrik Uretim's 2007 operational emissions estimate of **2,106,754 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	777 MW	Project Description
2008 Emissions	1,911,247.2 metric tonnes	Project Applicant

For the purpose of this baseline calculation, Pace Global assumed the 2007 operating year was similar to the 2008 operating year, for which emissions data was provided; therefore, 2007 operational emissions = 2,106,754 short tons of CO_{2e} per year.

$$1,911,247.2 \text{ metric tonnes} * \frac{\text{short ton}}{0.9072 \text{ metric tonnes}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

Applicant feedback provided for 2007 was also applicable to 2008. As a result, there was no change in the emissions estimate.

2009 Operational Emissions Estimate Based On Applicant Feedback

Adapazari Elektrik Uretim's 2009 operational emissions estimate of **2,441,657 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	777 MW	Project Description
2008 Emissions	2,215,071 metric tonnes	Project Applicant

Capacity-based emissions = 2,441,657 short tons of CO_{2e}

$$2,215,071 \text{ metric tonnes} * \frac{\text{short ton}}{0.9072 \text{ metric tonnes}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

Adapazari Elektrik Uretim's 2010 operational emissions estimate of **2,426,053 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	777 MW	Project Description
2010 Emissions	2,200,915 metric tonnes	Project Applicant

Capacity-based emissions = 2,426,053 short tons of CO_{2e}

$$2,200,915 \text{ metric tonnes} * \frac{\text{short ton}}{0.9072 \text{ metric tonnes}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

Adapazari Elektrik Uretim's 2011 operational emissions estimate of **2,309,241 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	777 MW	Project Description
2011 Emissions	2,094,943 metric tonnes	Project Applicant

Capacity-based emissions = 2,309,241 short tons of CO_{2e}

$$2,094,943 \text{ metric tonnes} * \frac{\text{short ton}}{0.9072 \text{ metric tonnes}}$$

AES Nigeria Barge

Maximum Potential to Emit Estimate

AES Nigeria Barge's emissions estimate of **1,603,307 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Consumption	80 Mcf/day	Project Description
Heat Content Natural Gas	1,029 Btu/scf	The Climate Registry, Table 12.1
Emission Factor	53.06kg CO ₂ /MMBtu	The Climate Registry, Table 12.1

Consumption-based maximum potential to emit = 1,603,307 short tons of CO_{2e} per year

$$\frac{80 \text{Mcf}}{\text{day}} * \frac{333 \text{days}}{\text{yr}} * \frac{1029 \text{Btu}}{\text{scf}} * \frac{53.06 \text{ kgCO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

AES Nigeria Barge's 2007 operational emissions estimate of **1,166,398 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Consumption	58.165 Mcf/day	Project Applicant
Emission Factor	53.06kg CO ₂ /MMBtu	The Climate Registry, Table 12.1

Consumption-based emissions = 1,166,398 short tons of CO_{2e} per year

$$\frac{58.165 \text{Mcf}}{\text{day}} * \frac{333 \text{days}}{\text{yr}} * \frac{1029 \text{Btu}}{\text{scf}} * \frac{53.06 \text{ kgCO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

AES Nigeria Barge's 2008 operational emissions estimate of **1,341,157 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Consumption	66.92 Mcf/day	Project Applicant
Emission Factor	53.06kg CO ₂ /MMBtu	The Climate Registry, Table 12.1

Consumption-based emissions = 1,341,157 short tons of CO_{2e} per year

$$\frac{66.92 \text{Mcf}}{\text{day}} * \frac{333 \text{days}}{\text{yr}} * \frac{1029 \text{Btu}}{\text{scf}} * \frac{53.06 \text{ kgCO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2009 Operational Emissions Estimate Based On Applicant Feedback

AES Nigeria Barge's 2009 operational emissions estimate of **988,271 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Total Heat Input	16,896,970 MMBtu	Project Applicant
Emission Factor	53.06kg CO ₂ /MMBtu	The Climate Registry, Table 12.1

Capacity-based emissions = 988,271 short tons of CO_{2e} per year

$$16,896,970 \text{ MMBtu} * \frac{53.06 \text{ kgCO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

AES Nigeria Barge's 2010 operational emissions estimate of **949,754 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Emissions	861,617 metric tonnes CO ₂	Project Applicant

Capacity-based emissions = 949,754 short tons of CO_{2e} per year

$$861,617 \text{ metric tonnes CO}_2 * \frac{1 \text{ short ton}}{0.9072 \text{ metric tonnes}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

AES Nigeria Barge's 2011 operational emissions estimate of **949,754 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	270 MW	Project Description
Emissions	861,617 metric tonnes CO ₂	Project Applicant

Capacity-based emissions = 949,754 short tons of CO_{2e} per year

$$861,617 \text{ metric tonnes CO}_2 * \frac{1 \text{ short ton}}{0.9072 \text{ metric tonnes}}$$

Gaza Private Generating PLC

Maximum Potential to Emit Estimate

Gaza Private Generating PLC's emissions estimate of **487,658 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	140 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	395 g CO ₂ /kWh	International Finance Corporation, Guidance Note 3, Annex A section A-(i)

Capacity-based maximum potential to emit = 487,658 short tons of CO_{2e} per year

$$140 \text{ MW} * \frac{1000 \text{ kW}}{\text{MW}} * \frac{8000 \text{ hr}}{\text{yr}} * \frac{395 \text{ g CO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

Gaza Private Generating PLC's 2007 operational emissions estimate of **293,804 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	136.4 MW	Project Applicant
2007 Emissions	266,539 metric tonnes	Project Applicant

Capacity-based emissions = 293,804 short tons of CO_{2e} per year

$$266,539 \text{ metric tonnes} * \frac{\text{short ton}}{0.9072 \text{ metric tonnes}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

Gaza Private Generating PLC's 2008 operational emissions estimate of **303,535 short tons CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	136.4 MW	Project Applicant
2008 Emissions	275,367 metric tonnes	Project Applicant

Capacity-based emissions = 303,535 short tons of CO_{2e} per year

$$275,367 \text{ metric tonnes} * \frac{\text{short ton}}{0.9072 \text{ metric tonnes}}$$

2009 Operational Emissions Estimate Based On Applicant Feedback

Gaza Private Generating PLC's operational emissions estimate of **325,926 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	LFO No.2	Project Description
Capacity	80 MW (2009 Capacity)	Project Applicant
2009 Emissions	295,680 metric tonnes	Project Applicant

Capacity-based emissions = 325,926 short tons of CO_{2e} per year

$$295,680 \text{ metric tonnes} * \frac{\text{short ton}}{0.9072 \text{ metric tonnes}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

Gaza Private Generating PLC's operational emissions estimate of **228,627 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	LFO No.2	Project Description
Capacity	80 MW (2009 Capacity)	Project Applicant
2010 Emissions	207,410 metric tonnes	Project Applicant

Capacity-based emissions = 228,627 short tons of CO_{2e} per year

$$207,410 \text{ metric tonnes} * \frac{\text{short ton}}{0.9072 \text{ metric tonnes}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

Gaza Private Generating PLC's operational emissions estimate of **405,262 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	LFO No.2	Project Description
Capacity	80 MW (2009 Capacity)	Project Applicant
2011 Emissions	367,654 metric tonnes	Project Applicant

Capacity-based emissions = 405,262 short tons of CO_{2e} per year

$$367,654 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

Gebze Elektrik Uretim

Maximum Potential to Emit Estimate

Gebze Elektrik Uretim's emissions estimate of **5,412,998 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	1554 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	395 g CO ₂ /kWh	International Finance Corporation, Guidance Note 3, Annex A section A-(i)

Capacity-based maximum potential to emit = 5,412,998 short tons of CO_{2e} per year

$$1554 \text{ MW} * \frac{1000 \text{ kW}}{\text{MW}} * \frac{8000 \text{ hr}}{\text{yr}} * \frac{395 \text{ g CO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

Gebze Elektrik Uretim's 2007 operational emissions estimate of **4,121,923 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	1554 MW	Project Description
2008 Emissions	3,739,408.4 metric tonnes	Project Applicant

For the purpose of this baseline calculation, we assumed the 2007 operating year was similar to the 2008 operating year, for which emissions information was provided; therefore, 2007 operational emissions = 4,121,923 short tons of CO_{2e} per year.

$$3,739,408.4 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

Per Applicant feedback, emissions and operational factors for 2008 were the same as those for 2007.

2009 Operational Emissions Estimate Based On Applicant Feedback

Gebze Elektrik Uretim's 2009 operational emissions estimate of **4,794,979 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	1554 MW	Project Description
2009 Emissions	4,350,005 metric tonnes	Project Applicant

Capacity-based emissions = 4,794,979 short tons of CO_{2e} per year

$$4,350,005 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

Gebze Elektrik Uretim's 2010 operational emissions estimate of **4,833,330 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	1554 MW	Project Description
2010 Emissions	4,535,512 metric tonnes	Project Applicant

Capacity-based emissions = 4,833,330 short tons of CO_{2e} per year

$$4,384,797 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

Gebze Elektrik Uretim's 2011 operational emissions estimate of **4,535,511 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	1554 MW	Project Description
2010 Emissions	4,114,616 metric tonnes	Project Applicant

Capacity-based emissions = 4,535,511 short tons of CO_{2e} per year

$$4,114,616 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

Isagen SA

Maximum Potential to Emit Estimate

Isagen SA's emissions estimate of **696,654 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	200 MW + 100 MW from steam turbine	Project Description
Emission Factor for Emissions Estimate from Capacity	395 g CO ₂ /kWh	International Finance Corporation, Guidance Note 3, Annex A section A-(i)

Capacity-based maximum potential to emit = 696,654 short tons of CO_{2e} per year

$$200\text{MW} * \frac{1000\text{kWh}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{395\text{gCO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

Isagen SA's 2007 operational emissions estimate of **203,010 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	300 MW	Project Description
2007 Emissions	184,171 metric tonnes	Project Applicant

Capacity-based emissions = 203,010 short tons of CO_{2e} per year

$$184,171 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

Per Applicant feedback, emissions were below the 100,000 short tons CO_{2e} threshold and, thus, were not included in the 2008 inventory.

2009 Operational Emissions Estimate Based On Applicant Feedback

Isagen SA's 2009 operational emissions estimate of **300,706 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	300 MW	Project Description
2009 Emissions	272,800 metric tonnes	Project Applicant

Capacity-based emissions = 300,706 short tons of CO_{2e} per year

$$272,800 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

Isagen SA's 2010 operational emissions estimate of **305,181 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	300 MW	Project Description
2010 Emissions	276,860 metric tonnes	Project Applicant

Capacity-based emissions = 305,181 short tons of CO_{2e} per year

$$276,860 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

No additional data was available. The 2011 emissions estimate defaulted to the 2010 emissions estimate.

Izmir Elektrik Uretim

Maximum Potential to Emit Estimate

Izmir Elektrik Uretim's emissions estimate of **5,412,998 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	1554 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	395 g CO ₂ /kWh	International Finance Corporation, Guidance Note 3, Annex A section A-(i)

Capacity-based maximum potential to emit = 5,412,998 short tons of CO_{2e} per year

$$1554\text{MW} * \frac{1000\text{kWh}}{\text{MWh}} * \frac{8000\text{hr}}{\text{yr}} * \frac{395\text{gCO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

Izmir Elektrik Uretim's 2007 operational emissions estimate of **4,694,380 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	1554 MW	Project Description
2008 Emissions	4,258,741.3 metric tonnes	Project Applicant

For the purpose of this baseline calculation, we assumed the 2007 operating year was similar to the 2008 operating year, for which emissions information was provided; therefore, 2007 operational emissions = 4,694,380 short tons of CO_{2e} per year.

$$4,258,741.3 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

Per Applicant feedback, emissions and operational factors were the same as those for 2007.

2009 Operational Emissions Estimate Based On Applicant Feedback

Izmir Elektrik Uretim's 2009 operational emissions of **4,300,376 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	1554 MW	Project Description
2009 Emissions	3,901,301 metric tonnes	Project Applicant

Capacity-based emissions = 4,300,376 short tons of CO_{2e} per year

$$3,901,301 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

Izmir Elektrik Uretim's 2010 operational emissions estimate of **4,739,787 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	1554 MW	Project Description
2010 Emissions	4,299,935 metric tonnes	Project Applicant

Capacity-based emissions = 4,739,787 short tons of CO_{2e} per year

$$4,299,935 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

Izmir Elektrik Uretim's 2011 operational emissions estimate of **4,824,511 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	1554 MW	Project Description
2011 Emissions	4,376,796 metric tonnes	Project Applicant

Capacity-based emissions = 4,824,511 short tons of CO_{2e} per year

$$4,376,796 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

NEPC Consortium Power

Maximum Potential to Emit Estimate

NEPC Consortium Power's emissions estimate of **383,159 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	110 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	395 g CO ₂ /kWh	International Finance Corporation, Guidance Note 3, Annex A section A-(i)

Capacity-based maximum potential to emit = 383,159 short tons of CO_{2e} per year

$$110\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{395\text{gCO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

NEPC Consortium Power's 2007 operational emissions of **245,795 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	110 MW with average dispatch of 70.565 MW	Project Applicant
2007 Emissions	222,985 metric tonnes	Project Applicant

Capacity-based emissions = 245,795 short tons of CO_{2e} per year

$$222,985 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

NEPC Consortium Power's 2008 operational emissions estimate of **343,581 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas & HFO	Project Applicant
Heat Content (HFO)	363,184 MMBtu / yr	Project Applicant
Heat Content (NatGas)	5,335,005 MMBtu / yr	Project Applicant

Capacity-based emissions = 343,581 short tons of CO_{2e} per year

$$363,184 \text{ MMBtu} * \frac{78.80 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} + 5,335,005 \text{ MMBtu} * \frac{53.06 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2009 Operational Emissions Estimate Based On Applicant Feedback

NEPC Consortium Power's 2009 operational emissions estimate of **255,734 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas & HFO	Project Applicant
Heat Content (HFO)	313,105 MMBtu / yr	Project Applicant
Heat Content (NatGas)	3,907,428 MMBtu / yr	Project Applicant

Capacity-based emissions = 255,734 short tons of CO_{2e} per year

$$313,105 \text{ MMBtu} * \frac{78.80 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} + 3,907,428 \text{ MMBtu} * \frac{53.06 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

NEPC Consortium Power's 2010 operational emissions estimate of **297,068 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas & HFO	Project Applicant
Heat Content (HFO)	2,344,716 MMBtu / yr	Project Applicant
Heat Content (NatGas)	1,596,952 MMBtu / yr	Project Applicant

Capacity-based emissions = 297,068 short tons of CO_{2e} per year

$$2,344,716 \text{ MMBtu} * \frac{78.80 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} + 1,596,952 \text{ MMBtu} * \frac{53.06 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

No additional data was available. The 2011 emissions estimate defaulted to the 2010 emissions estimate.

Termovalle SCA

Maximum Potential to Emit Estimate

Termovalle SCA's emissions estimate of **714,070 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	205 MW	Project Description
Emission Factor for Emissions Estimate from Capacity	395 g CO ₂ /kWh	International Finance Corporation, Guidance Note 3, Annex A section A-(i)

Capacity-based maximum potential to emit = 714,070 short tons of CO_{2e} per year

$$205 \text{ MW} * \frac{1000 \text{ kW}}{\text{MW}} * \frac{8000 \text{ hr}}{\text{yr}} * \frac{395 \text{ g CO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

Per Applicant feedback, emissions were below the 100,000 short tons of CO_{2e} threshold. Thus, they were not included in the 2007 inventory.

2008 Operational Emissions Estimate Based On Applicant Feedback

Per Applicant feedback, emissions were below the 100,000 short tons CO_{2e} threshold. Thus, they were not included in the 2008 inventory.

2009 Operational Emissions Estimate Based On Applicant Feedback

Termovalle SCA's 2009 operational emissions estimate of **223,983 short tons of CO_{2e}** was calculated using the following information:

TIER B PROJECTS

Baku-Tblisi-Ceyhan Pipeline

Maximum Potential to Emit Estimate

The Baku-Tblisi-Ceyhan Pipeline (Baku)'s emissions estimate of **699,034 short tons of CO_{2e}** was calculated for emissions related to the combustion of natural gas and diesel in the transportation of crude oil through the pipeline. We assumed that the 180 Btu per short ton of crude oil transport per mile energy requirement was evenly split between natural gas and diesel. Baku's emission estimate is based on the following information:

Data	Value	Source
Fuel Type used for Transport	Natural Gas (gas) and Diesel (dual fuel)	Project Description
Pipeline Throughput	1 million barrels crude oil	Project Description
Pipeline Length	1,760 km	Project Description
Conversion Factors	1.6093 km/mile 7.3 lbs/gal (density of crude)	EPA AP 42, p.A-7
Energy Required for Pipeline Transport (Crude)	180 Btu/short tons crude oil per mile (for ~40in. diameter pipeline)	Trans Alaska Pipeline EIS, p. 4.9-2
Emissions Factors	53.06 kg CO ₂ /MMBtu (natural gas) 73.15 kg CO ₂ /MMBtu (diesel)	The Climate Registry, Table 12.1

Maximum potential to emit = 699,034 short tons of CO_{2e} per year

$$\frac{1000000 \text{ Bbl}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{7.3 \text{ lbs}}{\text{gal}} * \frac{42 \text{ gal}}{\text{Bbl}} * \frac{\text{short ton}}{2000 \text{ lbs}} = 51,048,900 \text{ short tons of crude/yr}$$

$$\frac{51048900 \text{ short tons crude}}{\text{yr}} * 1760 \text{ km} * \frac{\text{mile}}{1.6093 \text{ km}} * \frac{180 \text{ Btu}}{\text{short ton-mile}} * \frac{\text{MMBtu}}{1000000 \text{ Btu}} = 10,049,271 \text{ MMBtu/yr}$$

$$\frac{10049271 \text{ MMBtu}}{\text{yr}} * \frac{73.15 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} * 0.5 = 405,153 \text{ short tons of CO}_2/\text{yr from diesel}$$

$$\frac{10049271 \text{ MMBtu}}{\text{yr}} * \frac{53.06 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} * 0.5 = 293,881 \text{ short tons of CO}_2/\text{yr from gas}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

The Baku-Tblisi-Ceyhan Pipeline's 2007 operational emissions estimate of **707,672 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2008 Emissions	642,000 metric tonnes	Project Applicant

For the purpose of this baseline calculation, we assumed that the 2007 operating year was similar to the 2008 operating year, for which emissions information was provided; therefore, 2007 operational emissions = 707,672 short tons of CO_{2e} per year.

$$642,000 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

Per Applicant feedback, there were no differences in emissions and operational factors for 2007 and 2008.

2009 Operational Emissions Estimate Based On Applicant Feedback

The Baku-Tblisi-Ceyhan Pipeline's 2009 operational emissions estimate of **787,577 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2009 Emissions	714,490 metric tonnes	Project Applicant

For the purpose of this calculation, Pace Global assumed the 2009 operating year was similar to the 2007-2008 operating year, for which emissions information was provided. 2009 operational emissions = 787,577 short tons of CO_{2e} per year.

$$714,490 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

The Baku-Tblisi-Ceyhan Pipeline's 2010 operational emissions estimate of **723,214 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2010 Emissions	656,100 metric tonnes	Project Applicant

For the purpose of this calculation, we assumed the 2010 operating year was similar to the 2008-2009 operating year, for which emissions information was provided. 2010 operational emissions = 723,214 short tons of CO_{2e} per year.

$$656,100 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

The Baku-Tblisi-Ceyhan Pipeline's 2011 operational emissions estimate of **671,605 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2011 Emissions	609,280 metric tonnes	Project Applicant

For the purpose of this calculation, we assumed the 2011 operating year was similar to the 2008-2010 operating year, for which emissions information was provided. 2011 operational emissions = 671,605 short tons of CO_{2e} per year.

$$609,280 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

E.P. Interoil

Maximum Potential to Emit Estimate

E.P. Interoil's emissions estimate of **802,469 short tons of CO_{2e}** was calculated using an example from API for a refinery with a throughput of 250,000 barrels crude oil per day for an annual emissions of 5,600,000 metric tonnes CO₂. E.P. Interoil is approximately 13 percent of the size of the example. Below is the information used in the estimate.

Data	Value	Source
Fuel Type	Crude Oil	Project Description
Throughput Volumes	32,500 barrels crude oil per day	Project Description
"Emissions Factors"	5,600,000 metric tonnes CO ₂ per year for a facility with throughput of 250,000 barrels crude oil per day	API Compendium, Table 7-25
Multiplication Factor	0.13	Factor applied to account for approximate size discrepancy between E.P. Interoil and example

Maximum potential to emit = 802,469 short tons of CO_{2e} per year

$$\frac{5,600,000 \text{ metric tonnes CO}_2}{\text{yr}} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}} * 0.13$$

2007 Operational Emissions Estimate Based On Applicant Feedback

E.P. Interoil's 2007 operational emissions of **392,296 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2007 Average Throughput	15,888 BPCD	Project Applicant
2007 Emissions	355,891 metric tonnes	Project Applicant

2007 Operational Emissions = 392,296 short tons of CO_{2e} per year

$$355,891 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

E.P. Interoil's 2008 operational emissions estimate of **103,247 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2008 Annual MMBtu	15,888 MMBtu	Project Applicant
2008 Emissions	103,247 short tonnes	Project Applicant

2008 Operational Emissions = 103,247 short tons of CO_{2e} per year

2009 Operational Emissions Estimate Based On Applicant Feedback

E.P. Interoil's 2009 operational emissions estimate of **79,709 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2009 Emissions	72,312 metric tonnes	Project Applicant

2009 Operational Emissions = 79,709 short tons of CO_{2e} per year

$$72,312 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

2010 Operational Emissions Estimate Based On Applicant Feedback

E.P. Interoil's 2010 operational emissions estimate of **75,928 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2010 Emissions	8610 kg/hr	Project Applicant

2010 Operational Emissions = 75,928 short tons of CO_{2e} per year

$$8610 \frac{\text{kg}}{\text{hr}} * \frac{8,000 \text{ hours}}{\text{yr}} * \frac{\text{MT}}{1,000 \text{ kg}} * \frac{\text{short tons}}{0.973 \text{ metric tonnes}}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

E.P. Interoil's 2011 operational emissions estimate of **74,985 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2011 Emissions	68,026 metric tonnes	Project Applicant

2011 Operational Emissions = 74,985 short tons of CO_{2e} per year

$$68,026 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

Foxtrot International

Maximum Potential to Emit Estimate

Foxtrot International's emissions estimate of **270,804 short tons of CO_{2e}** was calculated accounting for both combustion emissions from the compression and transmission of natural gas as well as fugitive

emissions using the following information. Additionally, an estimate of platform emissions was provided in the project description and incorporated into the emissions total.

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Pipeline Throughput	100 MMscfd	Project Description
Platform Emissions	142,000 short tons CO _{2e}	Project Description
Emissions Factors	3439 lbs CO ₂ per MMscfd from combustion 4297 lbs CO ₂ per MMscfd from fugitive	U.S. EIA and EPA GHG Inventory, Tables 3-34 & 3-36

Maximum potential to emit = 270,804 short tons of CO_{2e} per year

$$\frac{100 \text{ MMscf}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{3439 \text{ lbs CO}_2}{\text{MMscf}} * \frac{\text{short tons}}{2000 \text{ lbs}} = 57,259 \text{ short tons of CO}_2/\text{yr (combustion)}$$

$$\frac{100 \text{ MMscf}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{4297 \text{ lbs CO}_2}{\text{MMscf}} * \frac{\text{short tons}}{2000 \text{ lbs}} = 71,545 \text{ short tons of CO}_2/\text{yr (fugitive)}$$

142,000 short tons of CO₂ = 142,000 short tons of CO₂/yr (platform – given data)

2007 Operational Emissions Estimate Based On Applicant Feedback

Foxtrot International's 2007 operational emissions estimate of **104,484 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
2008 Consumption	1530 MMscf/yr from flaring, power generation, and re-boiler offshore; 206 MMscf/yr from onshore heaters	Project Applicant
Emissions Factor	0.0546 kg CO ₂ /scf	The Climate Registry, Table 12.1

For the purpose of this baseline calculation, we assumed that the 2007 operating year was similar to the 2008 operating year, for which emissions information was provided; therefore, 2007 operational emissions = 104,484 short tons of CO_{2e} per year

$$\frac{1736 \text{ MMscf}}{\text{yr}} * \frac{1000000 \text{ scf}}{\text{MMscf}} * \frac{0.0546 \text{ kg CO}_2}{\text{scf}} * \frac{\text{short tons}}{907.18 \text{ kg}}$$

2008 Operational Emissions Estimate Based On Applicant Feedback

Per Applicant feedback, emissions and operational factors did not change from 2007 to 2008.

2009 Operational Emissions Estimate Based On Applicant Feedback

Per Applicant feedback, emissions and operational factors did not change from 2007 to 2009.

2010 Operational Emissions Estimate Based On Applicant Feedback

Foxtrot International's emissions were not included in the 2010 GHG inventory because project emissions were below the 25,000 short tons of CO_{2e} threshold. Foxtrot International's 2010 operational emissions estimate of 17,514 short tons of CO_{2e} was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
2010 Offshore Emissions	85 MMscf/yr from flaring, power generation, and re-boiler offshore; 206 MMscf/yr from onshore heaters (excluding transport emissions)	Project Applicant
2010 Onshore Emissions	178 MMscf/yr	
Emissions Factor	0.0546 kg CO ₂ /scf	The Climate Registry, Table 12.1

2010 Operational Emissions = 17,514 short tons of CO_{2e} per year

$$\frac{85 \text{ MMscf}}{\text{yr}} * \frac{1,000,000 \text{ scf}}{\text{MMscf}} * \frac{0.0546 \text{ kg CO}_2}{\text{scf}} * \frac{\text{short tons}}{907.18 \text{ kg}} = 5,116 \text{ short tons of CO}_2$$

$$\frac{206 \text{ MMscf}}{\text{yr}} * \frac{1,000,000 \text{ scf}}{\text{MMscf}} * \frac{0.0546 \text{ kg CO}_2}{\text{scf}} * \frac{\text{short tons}}{907.18 \text{ kg}} = 12,398 \text{ short tons of CO}_2$$

2011 Operational Emissions Estimate Based On Applicant Feedback

Foxtrot International's 2011 operational emissions estimate of **27,746 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
2011 Offshore Emissions	255 MMscf/yr from flaring, power generation, and re-boiler offshore;	Project Applicant
2010 Onshore Emissions	206 MMscf/yr	Project Applicant
Emissions Factor	0.0546 kg CO ₂ /scf	The Climate Registry, Table 12.1

2011 Operational Emissions = 27,746 short tons of CO_{2e} per year

$$\frac{255 \text{ MMscf}}{\text{yr}} * \frac{1,000,000 \text{ scf}}{\text{MMscf}} * \frac{0.0546 \text{ kg CO}_2}{\text{scf}} * \frac{\text{short tons}}{907.18 \text{ kg}} = 15,348 \text{ short tons of CO}_2$$

$$\frac{206 \text{ MMscf}}{\text{yr}} * \frac{1,000,000 \text{ scf}}{\text{MMscf}} * \frac{0.0546 \text{ kg CO}_2}{\text{scf}} * \frac{\text{short tons}}{907.18 \text{ kg}} = 12,398 \text{ short tons of CO}_2$$

Lukoil RPK-Vysotsk

Maximum Potential to Emit Estimate

Lukoil RPK-Vysotsk's emissions were calculated using throughput from various years along with standard emission conversion factors.

Data	Value	Source
2009 Throughput	13,893,533 Tons	Project Description
2007 Throughput	9,173,100 Tons	Project Description
2007 Emissions	70,767 short tons	Project Description

$\frac{13,893,533 \text{ tons}}{9,173,100 \text{ tons}} * 70,767 \text{ short tons of CO}_{2e}$

Total emissions estimate = **107,184 short tons CO_{2e}** per year

2007 GHG Emissions Estimate

2006 data was the most recent data available. The 2007 project emissions estimate was calculated using throughput volumes. OPIC estimated the project's emissions were **70,767 short tons of CO_{2e}** for 2007. Lukoil's emissions estimate was calculated using the following information:

Data	Value	Source
Fuel Type	Petroleum Products	Project Description
2006 Emissions	64,200 metric tonnes	Project Description

Total emissions estimate = 76,339 short tons of CO_{2e} per year

$\frac{64,200 \text{ metric tonnes}}{0.9072}$

2008 GHG Emissions Estimate

Per Applicant feedback, emissions and operational factors did not change from 2007 to 2008.

2009 GHG Emissions Estimate

2006 data was the most recent data available. 2009 project emissions were calculated using throughput volumes. OPIC estimated the project's emissions were **76,339 short tons of CO_{2e}** for 2009. Lukoil's emissions estimate was calculated using the following information:

Data	Value	Source
Fuel Type	Petroleum Products	Project Description
Throughput Volumes	(2006) 9,173,100 tons (2009) 13,893,533 tons	Project Description
2006 Emissions	50,402 short tons	Project Description

Total emissions estimate = 76,339 short tons of CO_{2e} per year

$$\frac{(13,893,533 * 50,402)}{9,173,100}$$

9,173,100

2010 GHG Emissions Estimate

Lukoil's 2010 operational emissions estimate of **97,117 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Petroleum Products	Project Description
Fuel Consumption	25,736 tonnes petroleum	Project Description

Total emissions estimate = 97,117 short tons of CO_{2e} per year

$$\frac{(25,736 \text{ tonnes petroleum} * 6.91 \text{ Bbl} * 6.287 \text{ MMBtu} * 78.8 \text{ kg CO}_2)}{907.18 \text{ kg/short ton}}$$

907.18 kg/short ton

2011 GHG Emissions Estimate

Lukoil's 2010 operational emissions estimate of **91,143 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Petroleum Products	Project Description
Fuel Consumption	24,153 tonnes petroleum	Project Description

2011 operational emissions estimate = 91,143 short tons of CO_{2e} per year

$$\frac{(24,153 \text{ tonnes petroleum} * 6.91 \text{ Bbl} * 6.287 \text{ MMBtu} * 78.8 \text{ kg CO}_2)}{907.18 \text{ kg/short tons}}$$

907.18 kg/short tons

Various Egypt Subsidiaries (Apache)

Maximum Potential to Emit Estimate

Various Egypt Subsidiaries (Apache)'s emissions estimate of **2,429,543 short tons of CO_{2e}** was calculated using an example from API for a similar oil and gas extraction and processing facility. The API example produced 6100 barrels of oil per day and 30 MMscf natural gas per day for annual emissions of 108,000 metric tonnes of CO₂, approximately one-tenth the amount of Apache's. Apache's emissions estimate was calculated using the following information:

Data	Value	Source
Fuel Type	Oil and Natural Gas	Project Description
Production Volumes	29,934,702 barrels oil per year 89,910 MMscf natural gas per year	Project Description
"Emissions Factors"	108,000 metric tonnes CO ₂ per year for a facility that produces 6100 barrels oil per day and 30 MMscf natural gas per day	API Compendium, Table 7-4
Multiplication Factor	10	Factor applied to account for approximate size discrepancy between Apache and example
Operating Capacity Adjustment	49%	Project Applicant

Maximum potential to emit = 2,429,543 short tons of CO_{2e} per year

$$\frac{108,000 \text{ metric tonnes CO}_2}{\text{yr}} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}} * 10 * (1/.49)$$

2007 Operational Emissions Estimate Based On Applicant Feedback

Various Egypt Subsidiaries (Apache)'s 2007 operational emissions estimate of **3,071,932 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2007 Emissions	1,365,560 metric tonnes	Project Applicant
Operating Capacity Adjustment	49%	Project Applicant

2007 Operational Emissions = 3,071,932 short tons of CO_{2e} per year

$$1,365,560 \text{ metric tonnes} * \frac{\text{short ton}}{0.9072 \text{ metric tonnes}} * (1/.49)$$

2008 Operational Emissions Estimate Based On Applicant Feedback

Various Egypt Subsidiaries (Apache)'s 2008 operational emissions estimate of **3,244,189 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2008 Emissions	1,365,560 metric tonnes	Project Applicant
Operating Capacity Adjustment	49%	Project Applicant

2008 Operational Emissions = 3,244,189 short tons of CO_{2e} per year

$$1,365,560 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}} * (1/.49)$$

2009 GHG Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2009 operational emissions of **3,294,654 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2009 Emissions	1,464,566 metric tonnes	Project Applicant
Operating Capacity Adjustment	49%	Project Applicant

2009 Operational Emissions = 3,294,654 short tons of CO_{2e} per year

$$1,464,566 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}} * (1/.49)$$

2010 GHG Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2010 operational emissions estimate of **3,465,842 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2010 Emissions	1,540,664 metric tonnes	Project Applicant
Operating Capacity	49%	Project Applicant

2010 Operational Emissions = 3,465,842 short tons of CO_{2e} per year

$$1,540,664 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}} * (1/.49)$$

2011 GHG Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2011 operational emissions estimate of **4,438,554 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
2011 Emissions	4,026,656 metric tonnes	Project Applicant

2011 Operational Emissions = 4,438,554 short tons of CO_{2e} per year

$$4,026,656 \text{ metric tonnes} * \frac{\text{short tons}}{0.9072 \text{ metric tonnes}}$$

West African Gas Pipeline

Maximum Potential to Emit Estimate

The West African Gas Pipeline's emissions calculation of **244,728 short tons of CO_{2e}** accounts for both combustion emissions from the compression and transmission of natural gas as well as fugitive emissions using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Pipeline Throughput	190 MMscfd	Project Description
Emissions Factors	3439 lbs CO ₂ per MMscfd from combustion 4297 lbs CO ₂ per MMscfd from fugitive	U.S. EIA and EPA GHG Inventory, Tables 3-34 & 3-36

Total-emissions estimate = 244,728 short tons of CO_{2e} per year

$$\frac{190 \text{ MMscf}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{3439 \text{ lbs CO}_2}{\text{MMscf}} * \frac{\text{short tons}}{2000 \text{ lbs}} = 108,792 \text{ short tons of CO}_2/\text{yr (combustion)}$$

$$\frac{190 \text{ MMscf}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{4297 \text{ lbs CO}_2}{\text{MMscf}} * \frac{\text{short tons}}{2000 \text{ lbs}} = 135,936 \text{ short tons of CO}_2/\text{yr (fugitive)}$$

2007 Operational Emissions Estimate Based On Applicant Feedback

The West African Gas Pipeline was under construction and not operational during 2007. Since emissions from construction would have been below the 100,000 short ton threshold, this project was omitted from the 2007 inventory.

2008 Operational Emissions Estimate Based On Applicant Feedback

The West African Gas Pipeline was not operational during 2008. Since emissions would have been below the 100,000 short ton threshold, this project was omitted from the 2008 inventory.

2009 Operational Emissions Estimate Based On Applicant Feedback

No additional data was available. 2009 data defaulted to the Maximum Potential to Emit.

2010 Operational Emissions Estimate Based On Applicant Feedback

West African Gas Pipeline's 2010 operational emissions estimate of **91,451 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Pipeline Throughput	190 MMscfd	Project Description
Emissions Factors	3,439 lbs CO ₂ per MMscfd from combustion 4,297 lbs CO ₂ per MMscfd from fugitive	U.S. EIA and EPA GHG Inventory, Tables 3-34 & 3-36

2010 operational emissions estimate = 91,451 short tons of CO_{2e} per year

$$\frac{71 \text{ MMscf}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{3,439 \text{ lbs CO}_2}{\text{MMscf}} * \frac{\text{short tons}}{2000 \text{ lbs}} = 40,654 \text{ short tons of CO}_2/\text{yr (combustion)}$$

$$\frac{71 \text{ MMscf}}{\text{day}} * \frac{333 \text{ day}}{\text{yr}} * \frac{4,297 \text{ lbs CO}_2}{\text{MMscf}} * \frac{\text{short tons}}{2000 \text{ lbs}} = 50,797 \text{ short tons of CO}_2/\text{yr (fugitive)}$$

2011 Operational Emissions Estimate Based On Applicant Feedback

West African Gas Pipeline's 2011 operational emissions estimate for 2011 is **86,617 short tons of CO_{2e}**. According to applicant feedback, there were 38,505 short tons of emissions associated with combustion emissions and 48,112 short tons of emissions associated with fugitive emissions.

TIER C PROJECTS

Tier C projects were not included in the 2007 and 2008 inventories. Emissions calculations for these projects have been included in all inventories from 2009 to the present.

CGLOB Astarta Zhadanivka Kyiv LLC

Maximum Potential to Emit Estimate

CGLOB Astarta Zhadanivka Kyiv LLC's emissions were calculated using the following information:

Data	Value	Source
Total Direct Emissions	25,000 short tons	Project Description

Total emissions estimate = 25,000 short tons of CO_{2e} per year

2011 Operational Emissions Estimate

CGLOB Astarta Zhadanivka Kyiv LLC's 2011 operational emissions estimate was found to be below the threshold of 25,000 short tons of CO_{2e} based on the following information:

Data	Value	Source
Fuel Type	Natural Gas and Coal	Project Description
Capacity	5.4 MW (Natural Gas)	Project Description
Emission Factor for Emissions Estimate from Capacity	395 g CO ₂ /kWh using Natural Gas	International Finance Corporation, Guidance Note 3, Annex A section A-(i)
Conversion Factor	0.0000011023 short tons/g	TCR, Appendix C
2011 Fuel Consumption	1,518 short tons Coal	Project Description
Emissions Factor	97.09 kgCO ₂ /MMBtu Coal	TCR, Table 12.1
Conversion Factor	17.25 MMBtu/short ton Coal	TCR, Table 12.1

2011 consumption-based emissions = 21,612 short tons of CO_{2e} per year

$$\begin{aligned}
 &5.4 \text{ MW} * \frac{8,000 \text{ hr}}{\text{yr}} * \frac{395 \text{ g CO}_2}{\text{kWh}} * \frac{1000 \text{ kW}}{\text{MW}} * \frac{0.0000011023 \text{ short tons}}{\text{g}} \\
 &+ \\
 &1,518 \text{ short tons coal} * \frac{17.25 \text{ MMBtu}}{\text{short ton coal}} * \frac{97.09 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}
 \end{aligned}$$

Citadel – Glass Works

Maximum Potential to Emit Estimate

Citadel – Glass Work's emissions were calculated using the following information:

Data	Value	Source
Total Direct Emissions	25,000 short tons	Project Applicant

Total emissions estimate = 25,000 short tons of CO_{2e} per year

2011 Operational Emissions Estimate Based On Applicant Feedback

Not active in 2011

Dominica

2011 Operational Emissions Estimate Based On Applicant Feedback

Dominica's 2011 operational emissions estimate of **50,084 short tons CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Fuel Consumption	4,500,863 U.S. gallons	Project Applicant
Emissions Factor	73.15 kg CO ₂ /MMBtu	The Climate Registry, Table 12-1
Conversion Factor	42 gal/Bbl	The Climate Registry, Appendix C
Conversion Factor	5.796 MMBtu/Bbl	The Climate Registry, Table 12.1
Conversion Factor	907.18 kg/short tons	The Climate Registry, Appendix C

2011 consumption-based emissions = 50,084 short tons of CO_{2e} per year

$$4,500,863 * 1 \text{ bbl} * 5.796 \text{ MMBtu} * 73.15 \text{ kg CO}_2 * \text{short tons} \\ 42 \text{ gal} \quad 1 \text{ Bbl diesel} \quad \text{MMBtu} \quad 907.18 \text{ kg}$$

The Dominica project was and continues to be in a state of flux but has been added to the list of active projects since Tier C projects were accounted for in 2009, based on the 2011 applicant reported emissions.

Joshi Technologies / Parko Services

2009 GHG Emissions Estimate

Joshi Technologies / Parko's 2009 project emissions estimate of **30,398 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Consumption	20,000,000 mil cu. meters	Project Description

Consumption-based emissions = 30,398 short tons of CO_{2e} per year

$$20 \text{ MMm}^3 * \frac{35.3 \text{ ft}^3}{\text{M}^3} * \left(\frac{1027 \text{ Btu}}{\text{ft}^3} * \frac{1 \text{ MMBtu}}{1,000,000 \text{ Btu}} \right) * \frac{53.06 \text{ kgCO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ tons}}{\text{kg}}$$

2010 GHG Emissions Estimate

Joshi Technologies / Parko's 2010 project emissions estimate of **57,826 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Internal Combustion Emissions (gas)	4,010 short tons CO ₂	Project Applicant
External Combustion Emissions (gas)	9,789 short tons CO ₂	Project Applicant
Flared Gas Emissions	25,927 short tons CO ₂	Project Applicant
Internal Combustion Emissions (diesel)	18,100 short tons CO ₂	Project Applicant

Consumption-based emissions = 57,826 short tons of CO_{2e} per year

4,010 short tons CO₂ + 9,789 short tons CO₂ + 25,927 short tons CO₂ + 18,100 short tons CO₂

2011 GHG Emissions Estimate

Joshi Technologies / Parko's 2011 project emissions estimate of **43,564 short tons of CO_{2e}** was calculated using the following information:

Data	Value	Source
Internal Combustion Emissions (gas)	4,918 short tons CO ₂	Project Applicant
External Combustion Emissions (gas)	11,169 short tons CO ₂	Project Applicant
Flared Gas Emissions	22,611 short tons CO ₂	Project Applicant
Internal Combustion Emissions (diesel)	4,866 short tons CO ₂	Project Applicant

Consumption-based emissions = 43,564 short tons of CO_{2e} per year

4,918 short tons CO₂ + 11,169 short tons CO₂ + 22,611 short tons CO₂ + 4,866 short tons CO₂

APPENDIX D – CONVERSIONS AND SOURCES

Below are additional emission factors, conversions, and other factors used in the emission estimates and sources.

Value	Unit of Measure	Source
8,000	Hours per Year	Conservative Operating Assumption – EIA Form 923 data, 2007
333	Days per Year	Calculated from Hours per Year
1,000	kWh per MWh	The Climate Registry, Appendix C
1,000,000	Btu per MMBtu	The Climate Registry, Appendix C
251.98	Btu per cal	Perry's Chemical Engineering Hand Book, Table 1-7
0.001	metric tonnes per kg	The Climate Registry, Appendix C
0.0011023	Short tons per kg	The Climate Registry, Appendix C
1,000,000	scf per Mcf	The Climate Registry, Appendix C
0.02832	m3 per scf	The Climate Registry, Appendix C
0.9072	metric tonnes per short ton	The Climate Registry, Appendix C
0.000001	metric tonnes per g	The Climate Registry, Appendix C
0.0000011023	short tons per g	The Climate Registry, Appendix C
907.18	kg per short ton	The Climate Registry, Appendix C
2.2046	lbs per kg	The Climate Registry, Appendix C
2,204.62	lbs per metric tonne	The Climate Registry, Appendix C
2,000	lbs per short ton	The Climate Registry, Appendix C
42	gallons per barrel	The Climate Registry, Appendix C
53.02	kg CO ₂ per MMBtu natural gas	<i>2013 Climate Registry Default Emissions Factors</i>
73.15	kg CO ₂ per MMBtu diesel (fuel oil)	<i>2013 Climate Registry Default Emissions Factors</i>
93.40	kg CO ₂ per MMBtu coal (bituminous)	<i>2013 Climate Registry Default Emissions Factors</i>
97.02	kg CO ₂ per MMBtu coal (sub-bituminous)	<i>2013 Climate Registry Default Emissions Factors</i>
74.49	kg CO ₂ per MMBtu crude oil	<i>2013 Climate Registry Default Emissions Factors</i>
0.0545	kg CO ₂ per scf natural gas	EPA Emissions Factors
75.10	kg CO ₂ per MMBtu Residual Fuel Oil (#6)	<i>2013 Climate Registry Default Emissions Factors</i>
1,028	Btu per scf natural gas	<i>2013 Climate Registry Default Emissions Factors</i>
5.796	MMBtu per barrel diesel (fuel oil)	<i>2013 Climate Registry Default Emissions Factors</i>
24.93	MMBtu per short ton coal (bituminous)	<i>2013 Climate Registry Default Emissions Factors</i>

Value	Unit of Measure	Source
17.25	MMBtu per short ton coal (sub-bituminous)	<i>2013 Climate Registry Default Emissions Factors</i>
5.796	MMBtu per barrel crude oil	<i>2013 Climate Registry Default Emissions Factors</i>
893	g CO ₂ per kWh generated using coal	IFC Guidance Note 3, Annex A section A-(ii)
659	g CO ₂ per kWh generated using oil	IFC Guidance Note 3, Annex A section A-(ii)
395	g CO ₂ per kWh generated using natural gas	IFC Guidance Note 3, Annex A section A-(ii)

APPENDIX E – ANNOTATED BIBLIOGRAPHY

American Petroleum Institute (API). *Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Gas Industry*. February 2004. Accessed January 2008.

<http://www.api.org/ehs/climate/new/upload/2004_COMPENDIUM.pdf>

Examples from API were used for those projects in Tier B [Accroven SRL, Various Egypt Subsidiaries (Apache), EP Interoil, RPK-Vysotsk (Lukoil II)] for which there were no consumption volumes or other data to base an emissions estimate on. The size of operations for these examples was compared to the size of the projects in Tier B, resulting in a multiplication factor which was applied to the API example's emissions estimate to arrive at an approximate estimate for the Tier B project. Additionally, a methane-fugitive emissions factor for compression, sourced from the API Compendium of Greenhouse Gas Emissions, Table 6-5, was used for the Wilpro Energy Services projects.

California Energy Commission, Electric Power Research Institute. *Implementing Advanced Control and Power Technologies to Improve Energy Efficiency and Reduce Operating Costs for U.S. Petroleum Refining and Petrochemical Manufacturing*. CEC-500-2006-055. April 2006. Accessed January 2008.

No information was provided in the project description for the Equate Petrochemical project indicating its size or energy consumption. Data pertaining to the average size of petrochemical facilities in the Middle East, (~850,000 tpy), was sourced from the Oil and Gas Journal. Data pertaining to specific energy requirements and generation sources expected from a petrochemical facility of this size was sourced from the CEC report. This data enabled the qualified estimation of emissions from this project.

The Climate Registry. *General Reporting Protocol Version 1.1*. May 2008. Accessed January 2008.

<<http://www.theclimateregistry.org/downloads/GRP.pdf>>

The Climate Registry is the broadest-reaching registry in North America with participation from all Canadian provinces, six Mexican states, and 40 U.S. states. The Climate Registry's General Reporting Protocol is based on the WRI/WBCSD GHG Protocol, the "gold" standard in GHG Accounting and Reporting. Emission, heat content, and conversion factors from this document were used in the analysis (Table 12.1 and Appendix C).

The Climate Registry. General Reporting Protocol. [2013 Climate Registry Default Emissions Factors](#). January 2013. Accessed January 2013.

<<http://www.theclimateregistry.org/resources/protocols/general-reporting-protocol/>>

Energy Information Administration (EIA) *U.S. Natural Gas Consumption by End Use*. 2003-2007. Accessed January 2008.

<http://tonto.eia.doe.gov/dnav/ng/ng_cons_sum_dcunus_a.htm>

Emissions from natural pipeline transport are very segment specific, varying by pipeline infrastructure, compression energy source, and segment distance. In order to define the related emissions for representative pipeline hauls in the absence of system specifications, Pace Global assumed pipeline-fuel consumption and both combustion and non-combustion CO_{2e} emissions, based on EIA natural gas consumption data and data from the U.S. GHG Inventory released by EPA in 2008. This data yielded an average fugitive-emission-loss rate of 1.7 percent (per unit volume), and fugitive emissions factor of 4,297 lbs of CO₂ per MMscfd. The emissions associated with combustion required to move natural gas were calculated to be 3,439 lbs of CO₂ per MMscd.

EIA. Voluntary Reporting of Greenhouse Gas Coefficients. [Voluntary Reporting of Greenhouse Gases Program \(Voluntary Reporting of Greenhouse Gases Program Fuel Carbon Dioxide Emission Coefficients\)](#). January 2013. Accessed January 2013.

International Energy Agency. *Coal in Indonesia in 2006*, accessed January 2008.
<http://www.iea.org/Textbase/stats/coaldata.asp?COUNTRY_CODE=ID>

The coal profile for Indonesia in 2006 specifies the type of coal consumed and what it was combusted for. The table provided by IEA describes the volume of coal used in electricity plants as being 100 percent sub-bituminous. This information was necessary to calculate the emissions for Paiton Energy as each coal type has a different emissions factor and heat-content value.

International Energy Agency. *Coal in Morocco in 2006*. Accessed January 2008.
<http://www.iea.org/Textbase/stats/coaldata.asp?COUNTRY_CODE=MA>

The coal profile for Morocco in 2006 specifies the type of coal consumed and what it was combusted for. The table provided by IEA describes the volume of coal used in electricity plants as being 100 percent bituminous. This information was necessary to calculate the emissions for Jorf Lasfar Energy as each coal type has a different emissions factor and heat-content value.

International Finance Corporation (IFC). *Guidance Note 3: Pollution Prevention and Abatement*. July 31, 2007. Accessed January 2008.
<<http://www.ifc.org/ifcext/sustainability.nsf/Content/GuidanceNotes>>

This guidance note by the IFC provides suggested GHG emissions estimation methodologies for the energy and industrial sectors. The table in Annex A provides the capacity for electric-generating technologies (oil = 25MW, coal = 18MW, gas = 41MW) that would emit 100,000 metric tonnes of CO_{2e} per year. The table also provides the emissions factor that was applied to the electric generation projects for which no throughput or consumption volumes were available.

Nye Thermodynamics Corporation. *Gas Turbine Specifications by Manufacturer*. [Nuovo Pignone turbine specifications](#). Accessed January 2008.
<<http://www.gas-turbines.com/specs/manuf.htm>>

The project descriptions for Wilpro Energy Services (Pigap) and Wilpro Energy Services (El Furrial) indicate that the compression is driven by Nuovo Pignone Gas Turbines. Pace estimated energy requirements from compression levels depicted for each project and consulted specifications of the appropriately sized Nuovo Pignone gas turbines. Efficiency and other

specifications of these turbines were collected from the Nye Thermodynamics Corporation website documenting gas turbine specifications by manufacturer.

Oil and Gas Journal. "Special Report: Worldwide Ethylene Capacity Increases 2 Million TPY in 2007," Volume 106, July 28, 2008.

No information was provided in the project description for the Equate Petrochemical project indicating its size or energy consumption. The average size of petrochemical facilities in the Middle East, of ~850,000 tpy, was sourced from the *Oil and Gas Journal*. Specific energy requirements and generation sources expected from a petrochemical facility of this size were sourced from the CEC report. This data enabled the qualified estimation of emissions from this project.

Trans Alaska Pipeline Environmental Impact Statement Document, Energy Requirements for Conservation Potential. February 15, 2001. Accessed January 2008.

<http://tapseis.anl.gov/documents/docs/Section_4_9_May2.pdf>

Energy-demand factors for crude-pipeline transport were sourced from documents associated with the Environmental Impact Statement for the Trans Alaska Gas pipeline in order to calculate GHG emissions for the Baku-Tblisi-Ceyhan Pipeline.

United States Environmental Protection Agency (EPA). *AP 42: Compilation of Air Pollutant Emission Factors, Volume 1 Stationary Point and Area Sources*. [Appendix A: Miscellaneous Data & Conversion Factors](#). September 1985. Accessed January 2008.

<<http://www.epa.gov/ttn/chief/ap42/>>

Conversion factors not provided by The Climate Registry were obtained from U.S. EPA's AP 42 document, specifically for the density of natural gas and crude oil and the conversion of kilometers to miles.

United States Environmental Protection Agency (EPA). *Inventory of U.S. GHG Emissions and Sinks, 1990-2006*. Tables 3-34 and 3-36. Accessed January 2008.

<http://www.epa.gov/climatechange/emissions/downloads/08_CR.pdf>

Emissions from natural-gas-pipeline transport are very segment specific, and vary according to pipeline infrastructure, compression-energy source, and segment distance. In order to define the related emissions for representative pipeline hauls in the absence of system specifications, Pace Global assumed pipeline-fuel consumption and both combustion and non-combustion CO₂e emissions based on EIA natural gas consumption data and data from the U.S. GHG Inventory, released by EPA in 2008. This data yielded an average fugitive emission loss rate of 1.7 percent (per unit volume), and fugitive emissions factor of 4,297 lbs of CO₂ per MMscfd. The emissions associated with combustion required to move natural gas was calculated to be 3,439 lbs of CO₂ per MMscfd.