

Calendar Year 2013 Greenhouse Gas Emissions Inventory Report

Prepared for:

The U.S. Overseas Private Investment Corporation

Prepared by:



FINAL REPORT

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INTRODUCTION

SC&A, Inc. (SC&A) performed an independent assessment of greenhouse gas (GHG) emissions from projects supported by the U.S. Overseas Private Investment Corporation (OPIC). GHGs are atmospheric compounds that absorb and emit solar radiation in the thermal infrared range. Increases in the atmospheric concentrations of GHG have been linked to changes in the global climate with adverse impacts to human and natural systems. In response to the challenges posed by climate change, initiatives are being developed to assess and abate GHG emissions from anthropogenic sources.

OPIC annually commissions the development of a GHG inventory of projects it supports that are determined to be significant sources of carbon pollution (“significant” means more than 25,000 short tons of carbon dioxide equivalent – “CO₂e” – per year). This report, prepared by SC&A, presents the analysis undertaken to quantify significant calendar year 2013 GHG emissions from OPIC-supported projects that were active as of September 30, 2014. “Active” projects are defined as all insurance contracts in force and all guaranty and direct loans with an outstanding principal balance.

This is the second year that SC&A has prepared the annual GHG inventory report for OPIC. Previous assessments, including the 2007 baseline inventory, were performed by Pace Global.

BASELINE INVENTORY DEVELOPMENT

In order to assess the GHG emission levels associated with OPIC investment portfolio, a baseline inventory was completed in March 2009 based on project activity recorded during calendar year 2007. The list of active projects that serve as the initial input for the baseline inventory is presented in Appendix A – 2007 Active Projects.

The baseline inventory accounted for projects having a maximum Potential-to-Emit (PTE) of more than 100,000 of short tons of direct CO₂e emissions. Projects exceeding the reporting threshold pertained to the energy, oil and gas, transportation, mining, manufacturing, and construction sectors. The baseline inventory excluded direct biogenic emissions, accidental chemical releases, and project construction emissions. Also excluded were indirect emissions related to purchased electricity, heating or steam. For that reason, projects in the finance, banking, insurance, and service sectors were excluded from the GHG inventory boundary given that their carbon footprint is driven by indirect energy purchases.

The maximum PTE was estimated based on best available project information, which typically included a combination of fuel consumption data, the amount of electricity generated, generating capacity, relative project sizes, and an assumed operating capacity of 8,000 hours per year (unless otherwise noted). OPIC solicited feedback from the individual project applicants on methods, assumptions, and 2007 operational emissions data to corroborate the soundness of emission estimates.

The 2007 GHG inventory (OPIC 2007) leveraged project applicant-provided information in cases where OPIC received responses to the requests for data. For projects where applicant feedback was not received, emission estimates were developed based on a project’s maximum PTE. The inventory also incorporated a five-percent buffer to accommodate potential emissions from projects emitting less than 100,000 short tons CO₂e per year.

In the 2009 GHG inventory report (OPIC 2009), the original 2007 emissions baseline was revised up by 1,566,685 short tons CO₂e 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. The revised baseline 2007 emission baseline was 51,949,179 short tons of CO₂e.

2008-2012 INVENTORIES

For the 2008 GHG inventory (OPIC 2008), Pace Global followed the same process as during the baseline inventory development. The 2008 emission estimates were eventually revised up to account for a misallocation of Apache's GHG emissions, as discussed above. The revised 2008 GHG emissions total for projects active as of September 30, 2009 equaled 35,097,140 short tons of CO₂e.

For the 2009 GHG inventory (OPIC 2009), OPIC lowered the minimum reporting threshold to projects emitting 25,000 or more short tons of CO₂e per year. The five-percent buffer applied in 2007 and 2008 was modified to discount the contribution of projects emitting between 25,000 and 100,000 short tons of CO₂e. Total GHG emissions for projects active as of September 30, 2010 equaled 33,952,754 short tons of CO₂e.

Subsequent inventories followed the inventory architecture specified in the 2009 GHG inventory. 2010 GHG emissions for projects active as of September 30, 2011 totaled 34,543,566. 2011 GHG emissions for projects active as of September 30, 2012 amounted to 34,130,763 short tons of CO₂e, and 2012 GHG emissions for projects active as of September 30, 2013 totaled 10,013,868 short tons of CO₂e.

2013 INVENTORY SUMMARY

For the 2013 GHG inventory, SC&A reviewed OPIC financial reports to screen projects likely to meet the reporting criteria. Projects that were determined to have a maximum PTE below 25,000 short tons CO₂e in prior GHG emission assessments were excluded from the 2013 inventory boundary. Additional scrutiny was given to projects previously identified as reportable as well as new projects to OPIC's portfolio that were active as of September 30, 2014.

The outcome of the screening analysis resulted in a short list of thirteen (13) projects having a maximum PTE value equal or greater than 25,000 short tons of CO₂e per year. To provide assurance of GHG estimates, OPIC and SC&A solicited additional supporting evidence from project applicants to corroborate GHG assertions and assumption made by individual project sponsors.

SC&A adopted the same methodology used in previous GHG inventory years with one important exemption, namely the exclusion of estimated emissions for the Latin American Power III (LP III) Fund. Emissions levels for the 2013 GHG inventory were estimated at 7,427,755 short tons of CO₂e.

METHODOLOGY

INVENTORY BOUNDARY

The 2013 inventory boundary extends to direct emissions, most notably from fossil fuel combustion, associated with active projects having a maximum PTE over 25,000 short tons of CO₂e per year. “Active” projects are defined as all insurance contracts in force and all guaranty and direct loans with an outstanding principal balance at the end of OPIC’s last fiscal year (i.e., September 30, 2014). Excluded from the inventory boundary were direct biogenic emissions, refrigerant losses, chemical releases as well as indirect emissions related to purchased electricity, purchased steam or emissions from a project’s construction.

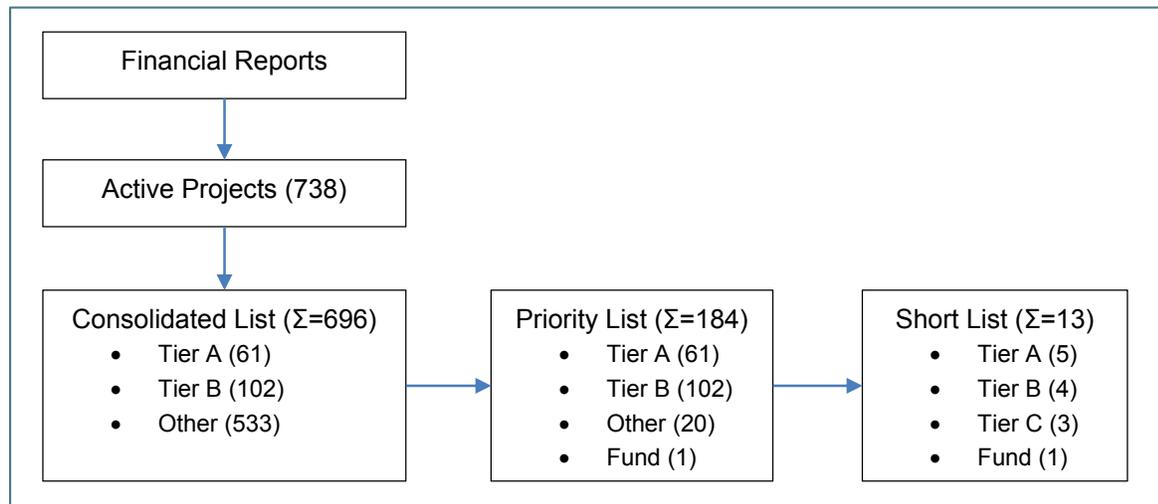
INVENTORY STRUCTURE

The reportable projects included in the 2013 GHG inventory are organized into three tiers. *Tier A* projects are fossil fuel-fired, power generation projects that emit more than 100,000 short tons of CO₂e per year. *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 of CO₂e per year. *Tier C* projects are those projects that emitted between 25,000 and 100,000 short tons of CO₂e per year. Additionally, the 2013 GHG inventory includes an approximation of GHG emissions from projects determined to be below the reporting threshold of 25,000 short tons of CO₂e denoted as *Buffer for Additional Sources*.

PROJECT SCREENING

SC&A leveraged financial and technical documentation provided by OPIC to identify the subset of projects meeting OPIC’s reporting criteria. The review and analysis of this documentation was conducted in several steps as shown in Figure 1; note that the values in parenthesis indicates the number of projects assessed in each step of the process for a given category.

Figure 1. Project Screening Process



The starting point for the 2013 GHG Inventory was a set of financial reports containing loan information for projects active as of September 30, 2014. SC&A consolidated this information and extracted the set of projects that exhibited a financial exposure greater than zero. This first step resulted in a set of 738 entries that reflects the pool of **active projects** for consideration in the current inventory cycle. The list of 2013

active projects is tabulated as an informational item under Appendix B – 2013 Active Projects. The second step consisted of developing a **consolidated list** of active projects by grouping entries that shared a common loan name and country location. The resulting 696 entries were then classified into Tier A, Tier B, or Other according to their economic sector. Entries classified as “Other” were projects in the agriculture, communications, finance, services, and tourism sectors. Third, SC&A developed a **priority list** of 184 projects by removing entries that were determined to be non-reportable in the 2012 GHG Inventory as well as excluding projects in the finance, banking, insurance, and service sectors because their emissions are the result of indirect energy purchases (e.g. purchased electricity or steam)—activities that fall outside of OPIC’s inventory scope. Finally, SC&A performed project-specific GHG assessments to ascertain which projects emitted or had a maximum PTE of at least 25,000 short tons of CO₂e. The outcome of this final step was a **short list** of 13 entries, which is presented in Table 1 along with projects that were deemed reportable in past inventories, but were no longer active for this 2013 GHG inventory. Table 1 also indicates the calendar year when a project first triggered the reporting requirements.

DEVELOPMENT OF EMISSION ESTIMATES

SC&A reviewed the quantification methodologies adopted in previous OPIC reports, and concluded that previous methodologies were consistent with OPIC’s GHG reporting policy. Therefore, SC&A utilized emission quantification methodologies from prior GHG inventories for all projects listed in Table 1 as “*Currently Active Projects Included in 2007 Baseline Inventory*”. In other cases, SC&A conferred with OPIC on suitable emission methodologies that maintained continuity with past GHG assessments and could reasonably characterize a project’s activities, scale, and complexity.

For all projects in the 2013 short list, SC&A developed project-specific requests for information detailing the activity data needed to assess annual GHG emissions. As activity data became available from project applicants, SC&A identified those projects for which activity data was incomplete. In a few instances, where data gaps persisted, SC&A resolved them by using engineering calculations (e.g., data interpolation, use of surrogate data, or use of industry average indicators) or carrying over project emissions data from previous year’s assessments.

Tier A – Power Generation Sources

SC&A and OPIC identified five (5) projects in the 2013 inventory as active Tier A. 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), and/or specific estimates of GHG emissions provided by the project applicant (where available). The preferred method relied on emission estimates derived from fuel consumption data. While actual fuel consumption data yields the most accurate emissions estimates, this information was not available for a few of the projects. When calculating emissions based on generation capacity alone, SC&A estimated emissions based on generation capacity (MW), operating capacity (8,000 hours per year), and used an emissions factor obtained from the International Finance Corporation’s Guidance Note 3 (IFC 2013). The data used in the calculations as well as the maximum PTE calculations are detailed in Appendix C – Project Emissions Calculations. A complete list of sources used to produce this analysis is included in Appendix E – Annotated Bibliography.

Table 1. Running Project Short List

Project	Country	Sector	Tier	Reporting Year	
				First	Last
<i>Current Reportable Projects</i>					
AES Jordan	Jordan	Energy – Power	Tier A	CY2007	CY2013
Contour Global – Togo	Togo	Energy – Power	Tier A	CY2011	CY2013
Gaza Private Generating PLC	Gaza	Energy – Power	Tier A	CY2007	CY2013
Grenada Electricity Services (WRB)	Grenada	Energy – Power	Tier A	CY2007	CY2013
Isagen SA	Colombia	Energy – Power	Tier A	CY2007	CY2013
Lukoil RPK Vysotsk	Russia	Energy – Oil and Gas	Tier B	CY2007	CY2013
Pannonia Ethanol	Hungary	Manufacturing	Tier B	CY2007	CY2013
Various Egypt Subsidiaries (Apache)	Egypt	Energy – Oil and Gas	Tier B	CY2007	CY2013
West African Gas Pipeline	Ghana	Energy – Oil and Gas	Tier B	CY2007	CY2013
CGLOB Astarta Zhadanivka Kyiv LLC	Ukraine	Agro-processing	Tier C	CY2007	CY2013
Joshi Technologies	Columbia	Energy – Oil and Gas	Tier C	CY2009	CY2013
Qalaa Holdings (formerly Citadel)	Egypt	Manufacturing	Tier C	CY2007	CY2013
<i>Past Reportable Projects</i>					
Latin American Power III	Latin America	Fund	Fund	CY2007	CY2012
Adapazari Elektrik Uretim	Turkey	Energy – Power	Tier A	CY2007	CY2012
AES Nigeria	Nigeria	Energy – Power	Tier A	CY2007	CY2012
Doga Enerji	Turkey	Energy – Power	Tier A	CY2007	CY2010
Gebze Elektrik Uretim	Turkey	Energy – Power	Tier A	CY2007	CY2011
Habibullah Coastal Power	Pakistan	Energy – Power	Tier A	CY2007	CY2008
Izmir Elektrik Uretim	Turkey	Energy – Power	Tier A	CY2007	CY2011
Jorf Lasfar Energy	Morocco	Energy – Power	Tier A	CY2007	CY2007
NEPC Consortium Power	Bangladesh	Energy – Power	Tier A	CY2007	CY2011
Paiton Energy	Indonesia	Energy – Power	Tier A	CY2007	CY2011
Pakistan Water & Power Development Authority	Pakistan	Energy – Power	Tier A	CY2007	CY2010
Termovalle SCA	Colombia	Energy – Power	Tier A	CY2007	CY2012
Trakya Elektrik Uretim ve Ticaret	Turkey	Energy – Power	Tier A	CY2007	CY2007
Accroven SRL	Venezuela	Energy – Oil and Gas	Tier B	CY2007	CY2008
Baku-Tblisi-Ceyhan Pipeline	Azerbaijan	Energy – Oil and Gas	Tier B	CY2007	CY2012
E.P. Interoil	Papua New Guinea	Energy – Oil and Gas	Tier B	CY2007	CY2011
Equate Petrochemical	Kuwait	Energy – Oil and Gas	Tier B	CY2007	CY2008
Foxtrot International	Cote d'Ivoire	Energy – Oil and Gas	Tier B	CY2007	CY2011
Natural Gas Liquids II	Nigeria	Energy – Oil and Gas	Tier B	CY2007	CY2008
Wilpro Energy Services (El Furrial)	Venezuela	Energy – Oil and Gas	Tier B	CY2007	CY2008
Wilpro Energy Services (Pigap)	Venezuela	Energy – Oil and Gas	Tier B	CY2007	CY2008
Dominica Electricity Services	Dominican Republic	Energy – Oil and Gas	Tier C	CY2009	CY2011
Jose Lindley	Peru	Manufacturing	Tier C	CY2009	CY2010

Source: OPIC and SC&A, Inc.

Tier B – Oil & Gas and Other Large Sources

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. SC&A and OPIC identified four (4) projects on the 2013 short list as Tier B. These projects belonged to the oil and gas sector for which project emissions were estimated on the basis of production throughput, fuel consumption data, and/or GHG emissions data from similar facilities. 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. The data used in the calculations, as well as the estimated calculations, are detailed in Appendix C – Project Emissions Calculations.

Tier C – Smaller Sources

The initial screen for Tier C projects excluded projects already known to exceed 100,000 short tons of CO₂e and projects previously determined to be below the threshold of 25,000 short tons CO₂e. SC&A performed inventory calculations for shortlisted projects based on project descriptions and project applicant-provided data as well as published data and emissions factors. SC&A and OPIC identified three (3) Tier C projects on the 2013 short list. The data used in the calculations, as well as the estimated calculations, are detailed in Appendix C – Project Emissions Calculations.

Latin America Power III Fund

LP III is a “blind pool” fund, and the downstream investments had not been finalized when OPIC committed its investment. Therefore, OPIC allocated 2,077,500 short tons of CO₂e to the LP III Fund in the 2007 baseline inventory (which was equal to the projected potential to emit from the thermal power projects in the LP III pipeline *at that time*), and subsequent GHG reports. However, in FY 2014, LP III became fully invested without having invested in any projects that had a potential to emit more than 25,000 tons of CO₂e. Because LP III did not have any projects in its portfolio that exceeded OPIC’s GHG reporting requirements, the allocated emissions for LP III were not carried over into the FY 2014 inventory.

Buffer for Additional Sources

SC&A and OPIC incorporated a buffer into the 2013 GHG inventory to account for projects that emit less than 25,000 short tons of CO₂e. Consistent with OPIC GHG accounting procedure, the sum of Tier C emissions and the buffer for potential additional sources equals five percent of the total Tier A, B, and Fund emissions (i.e., five percent of the total emissions from OPIC projects emitting more than 100,000 short tons of CO₂e per year). In the 2013 inventory, Tier C emissions and the buffer for additional sources amounted to 2.2 and 2.8 percent respectively.

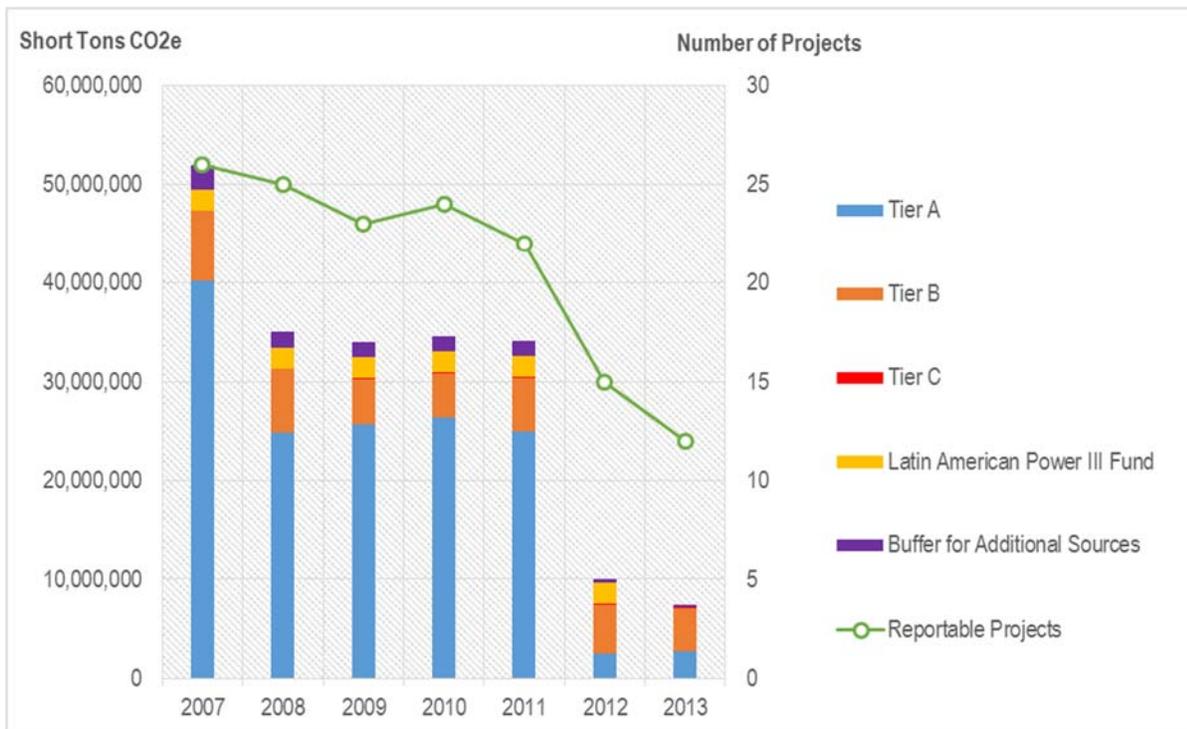
RESULTS

OPIC's CY 2013 GHG Inventory is an estimated **7,427,755** short tons CO₂e. As shown in Figure 2, there was a decrease in total project emissions of 26 percent relative to CY 2012. The reason for this decline is that during the fiscal year ending in September 30, 2014, one (1) power generation project and one (1) oil pipeline project became inactive, the projected allocation for the Latin American Power III Fund was removed, and no new projects meeting the reporting criteria emerged in the same time period. The projects that became inactive during FY 2014 are:

- Tier A, AES Nigeria
- Tier B, Baku-Tblisi-Ceyhan Pipeline

Another observation is that the carbon intensity of OPIC's investment portfolio continuous to decrease. In 2013, OPIC's carbon intensity was 0.62 million short tons CO₂e per project, which represents a 69 percent decline from the 2007 base year.

Figure 2. OPIC Portfolio GHG Emissions, Calendar Years 2007 – 2013



The technical profile of projects deemed reportable since the inception of the GHG inventory program is represented in Table 2. Emission inventory details starting with the base year and culminating with the 2013 GHG inventory are presented in Tables 3 through Table 6. Tables 3, 4 and 5 present emission from Tier A, Tier B and Tier C projects respectively. Table 6 summarizes GHG emissions of OPIC's entire portfolio including emissions associated with potentially unaccounted sources (i.e., Buffer of Additional Sources).

Table 2. Technical Profile of OPIC's Historical Portfolio

Project Name	Description	Capacity / Throughput	Fuel Type
Accroven SRL	NGL Facility	800 mmscfd	Natural Gas
Adapazari Elektrik Uretim	Combined Cycle	777 MW	Natural Gas
AES Jordan	Combined Cycle	370 MW	Natural Gas & Diesel
AES Nigeria	Engine-Based Power Generation	270 MW	Natural Gas
Baku-Tblisi-Ceyhan Pipeline	Crude Oil Pipeline	1.2 million barrels/day	Natural Gas & Diesel
CGLOB Astarta Zhadanivka Kyiv LLC	Agriculture	-	Natural Gas & Coal
Contour Global - Togo	Engine-Based Power Generation	100 MW	Fuel Oil & Natural Gas
Doga Enerji	Combined Cycle	180 MW	Natural Gas
Dominica Electric Services	Power Generation	-	Diesel
E. P. Interoil	Crude Oil Refinery	32,500 barrels/day	Crude Oil Refinery
Equate Petrochemical	Petrochemical Facility	1540 MMBtu/hr	Natural Gas
Foxtrot International	Gas Extraction & Pipeline	100 mmscfd	Natural Gas
Gaza Private Generating PLC	Combined Cycle	136.4 MW	Natural Gas
Gebze Elektrik Uretim	Combined Cycle	1554 MW	Natural Gas
Grenada Electricity Services (WRB)	Engine-Based Power Generation	18 MW	Diesel
Habibullah Coastal Power	Combined Cycle	140 MW	Natural Gas
Isagen SA	Combined Cycle	300 MW	Natural Gas
Izmir Elektrik Uretim	Combined Cycle	1554 MW	Natural Gas
Jorf Lasfar Energy	Steam Boiler	1356 MW	Coal
Jose Lindley	Manufacturing	-	Natural Gas
Joshi Technologies / Parko Services	Oil & Gas	-	Gas & Diesel
Lukoil RPK Vysotsk	Oil & Petroleum Export Terminal	6.8 million metric tons/yr	Fuel Oil
Natural Gas Liquids II Financing	NGL Facility	19.5 mmscfd	Natural Gas
NEPC Consortium Power	Engine-Based Power Generation	313,105 MMBtu	Natural Gas & Fuel Oil
Paiton Energy	Steam Boiler	1220 MW	Coal
Pakistan Water & Power Authority	Combined Cycle	150 MW	Natural Gas
Pannonia Ethanol	Ethanol Production	240 million liters	Natural Gas
Qalaa Holdings (formerly Citadel)	Manufacturing	-	Natural Gas
Termovalle SCA	Combined Cycle	205 MW	Natural Gas
Trakya Elektrik Uretim	Combined Cycle	478 MW	Natural Gas
Various Egypt Subsidiaries (Apache)	Oil & Gas Extraction & Processing	29,934,702 bbl/yr 89,910 mmscf/yr	Oil & Natural Gas
West Africa Gas Pipeline	Gas Compression & Transmission	190 mmscfd	Natural Gas
Wilpro Energy Services (El Furrial)	Gas Compression	60 MW	Natural Gas
Wilpro Energy Services (Pigap)	Gas Compression	100 MW	Natural Gas

Table 3. Tier A Historical Project Emissions (Short Tons CO₂e)

Project Name	Location	Maximum PTE [1]	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014
			CY2007 Baseline	CY2008 Emissions	CY2009 Emissions	CY2010 Emissions	CY2011 Emissions	CY2012 Emissions	CY2013 Emissions
Adapazari Elektrik Uretim	Turkey	2,706,499	2,106,754	2,106,754	2,441,657	2,426,053	2,309,241	Not Active	Not Active
AES Jordan [2]	Jordan	1,545,173	N/A	590,940	1,318,130	1,434,569	1,184,010	936,400	1,514,054
AES Nigeria	Nigeria	1,603,307	1,166,398	1,341,157	988,271	949,754	949,754	949,754	Not Active
Contour Global - Togo	Togo	587,305	Not Active	Not Active	Not Active	Below Threshold	46,561	130,773	161,830
Doga Enerji	Turkey	816,057	740,762	740,762	672,014	655,981	Not Active	Not Active	Not Active
Gaza Private Generating PLC	Gaza	481,485	293,804	303,535	325,926	228,627	405,262	Below Threshold	161,215
Gebze Elektrik Uretim	Turkey	5,412,998	4,121,923	4,121,923	4,794,979	4,833,330	4,535,511	Not Active	Not Active
Grenada Electricity Services (WRB)	Grenada	105,715	114,571	121,156	141,127	135,237	134,371	131,206	130,221
Habibullah Coastal Power	Pakistan	487,658	447,880	447,880	Not Active				
Isagen SA	Columbia	687,835	203,010	Below Threshold	300,706	305,181	305,181	305,181	775,357
Izmir Elektrik Uretim	Turkey	5,412,998	4,694,380	4,694,380	4,300,376	4,739,787	4,824,511	Not Active	Not Active
Jorf Lasfar Energy	Morocco	14,268,496	14,268,496	Not Active					
NEPC Consortium Power	Bangladesh	383,159	245,795	343,581	255,734	297,068	297,068	Not Active	Not Active
Paiton Energy	Indonesia	7,938,380	9,553,044	9,553,044	9,624,125	9,854,076	10,045,869	Not Active	Not Active
Pakistan Water & Power Authority [3]	Pakistan	522,490	522,490	522,490	283,937	283,937	Not Active	Not Active	Not Active
Termovalle SCA [4]	Colombia	714,070	Below Threshold	Below Threshold	223,983	223,983	Below Threshold	Not Active	Not Active
Trakya Elektrik Uretim	Turkey	1,818,912	1,747,956	Not Active					

[1] Maximum PTE was calculated on the basis of a projects maximum operating capacity. When maximum operating capacity could not be determined, the maximum PTE was set equal to the highest annual emission level assessed in this or prior OPIC GHG inventories.

[2] Sharp emission increase due to ramped-up energy production from 10,103,603 in CY2007 to 22,536,748 MMBtu in CY2008.

[3] CY2009 emissions are significantly lower due to fewer reported operating hours.

[4] CY2009 emissions are significantly higher due to increased reported operating hours.

Table 4. Tier B Historical Project Emissions (Short Tons CO₂e)

Project Name	Location	Maximum PTE [1]	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014
			CY2007 Baseline	CY2008 Emissions	CY2009 Emissions	CY2010 Emissions	CY2011 Emissions	CY2012 Emissions	CY2013 Emissions
Accroven SRL	Venezuela	998,677	998,677	445,832	Not Active				
Baku-Tblisi-Ceyhan Pipeline	Azerbaijan	699,034	707,672	707,672	787,577	723,214	671,605	584,200	Not Active
E.P. Interoil [5]	Papua New Guinea	802,469	392,296	103,247	79,709	75,928	74,985	Not Active	Not Active
Equate Petrochemical	Kuwait	720,573	720,573	680,311	Not Active				
Foxtrot International [2]	Cote d'Ivoire	270,804	104,484	104,484	104,484	Below Threshold	27,746	Not Active	Not Active
Lukoil RPK Vysotsk [3] [5]	Russia	107,184	70,767	70,767	76,339	97,117	91,143	92,696	95,070
Natural Gas Liquids II Financing	Nigeria	390,806	244,048	244,048	Not Active				
Pannonia Ethanol	Hungary	110,543	Not Active	Not Active	Not Active	Not Active	Not Active	64,244	93,251
Various Egypt Subsidiaries Apache) [4]	Egypt	2,429,543	3,071,932	3,244,189	3,294,654	3,465,842	4,438,554	4,178,447	4,056,437
West Africa Gas Pipeline [5]	Ghana	244,728	Not Active	Not Active	244,728	91,451	86,617	86,617	86,617
Wilpro Energy Services (El Furrial)	Venezuela	289,106	289,106	289,106	Not Active				
Wilpro Energy Services (Pigap)	Venezuela	507,923	571,090	571,090	Not Active				

[1] Maximum PTE was calculated on the basis of a projects maximum operating capacity. When maximum operating capacity could not be determined, the maximum PTE was set equal to the highest annual emission level assessed in this or prior OPIC GHG inventories.

[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] In some years, 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 annually.

Table 5. Tier C Historical Project Emissions (Short Tons CO₂e)

Project Name	Location	Maximum PTE [1]	FY2010	FY2011	FY2012	FY2013	FY2014
			CY2009 Emissions	CY2010 Emissions	CY2011 Emissions	CY2012 Emissions	CY2013 Emissions
CGLOB Astarta Zhadanivka Kyiv LLC	Ukraine	38,404	Not Active	Not Active	Below Threshold	36,886	38,404
Dominica Electric Services	Dominican Republic	50,084	50,084	50,084	50,084	Not Active	Not Active
Jose Lindley	Peru	25,000	25,000	25,000	Not Active	Not Active	Not Active
Joshi Technologies / Parko Services	Colombia	73,685	30,398	57,826	43,564	52,894	73,685
Qalaal Holdings (formerly Citadel)	Egypt	46,707	Not Active	Not Active	Not Active	46,707	57,035

[1] Maximum PTE was calculated on the basis of a projects maximum operating capacity. When maximum operating capacity could not be determined, the maximum PTE was set equal to the highest annual emission level assessed in this or prior OPIC GHG inventories.

Table 6. Summary of OPIC Historical Portfolio Emissions (Short Tons CO₂e)

Inventory Item	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014
	CY2007 Baseline	CY2008 Emissions	CY2009 Emissions	CY2010 Emissions	CY2011 Emissions	CY2012 Emissions	CY2013 Emissions
Tier A	40,227,263	24,887,602	25,670,965	26,367,582	25,037,339	2,453,314	2,742,677
Tier B	7,170,645	6,460,746	4,587,491	4,453,552	5,390,650	5,006,203	4,331,375
Tier C	-	-	105,482	132,910	93,648	136,486	169,124
Tier A, B, C Subtotal	47,397,908	31,348,348	30,363,938	30,954,044	30,521,637	7,596,003	7,243,176
Latin America Power III Fund [1]	2,077,500	2,077,500	2,077,500	2,077,500	2,077,500	2,077,500	0
5% Buffer for Additional Sources [2]	2,473,770	1,671,292	-	-	-	-	-
Buffer for Additional Sources [3]	-	-	1,511,316	1,512,022	1,531,626	340,365	184,579
TOTAL:	51,949,178	35,097,140	33,952,754	34,543,566	34,130,763	10,013,868	7,427,755

[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”. In FY 2014, OPIC determined that the Fund would not invest in any power-generating projects, therefore, the allocation for the Latin American Power III Fund was removed from the 2013 inventory.

[2] The buffer was originally set as five percent of the sum of Tier A and Tier B emissions

[3] Since 2009, the buffer is set so that the sum of Tier C emissions and the buffer equal five percent of the sum of Tier A and Tier B emissions.

APPENDIX A – 2007 ACTIVE PROJECTS

This table lists projects active as of June 30, 2008 that were screened during the 2007 GHG inventory development process.

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-FORESTRAD, 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
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 VESPUICIO NORTE EXPRES	CHILE	CONS
EMERGENCY LIQUIDITY FACILITY, L.P.	LATIN AMERICA REGIONAL	FIN
AEGIS INVESTMENT COMPANY	ALL OPIIC 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

PROJECT NAME	COUNTRY	SECTOR
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
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-SOTSYALNIY GORODSKOY BANK (SOTSGORBANK)	RUSSIA	FIN
BANCO LAFISE S.A.	COSTA RICA	FIN
W-BANCO FINANCIERA COMERCIAL HONDURENA	HONDURAS	FIN

PROJECT NAME	COUNTRY	SECTOR
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
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

PROJECT NAME	COUNTRY	SECTOR
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
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
OSI 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
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

PROJECT NAME	COUNTRY	SECTOR
TAYL INVESTORS GROUP LIMITED	AFGHANISTAN	TOUR
MONGOLIAN RESORTS XXX	MONGOLIA	TOUR
MALIKA HOTEL BUKHARA, LLC	UZBEKISTAN	TOUR
DESARROLLOS DE LOS SUEÑOS, 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
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 (17hana17na)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
TEKFENBANK	TURKEY	N/A

PROJECT NAME	COUNTRY	SECTOR
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 18hana)	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 (18hana)	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
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
CAMANICA 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

PROJECT NAME	COUNTRY	SECTOR
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
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
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 SARL	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
MINOTERIE DU CONGO, S.A.	CONGO	MFR

PROJECT NAME	COUNTRY	SECTOR
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 SERVICIOS 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
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 D'IVOIRE	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

PROJECT NAME	COUNTRY	SECTOR
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 CASECNAN 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 CASECNAN WATER AND ENERGY COMPANY, INC.	PHILIPPINES	POWER
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
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	TAJKISTAN	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
RELIEF INTERNATIONAL BRANCH OFFICE	AZERBAIJAN	SVC
RELIEF INTERNATIONAL BRANCH OFFICE	SOMALIA	SVC

PROJECT NAME	COUNTRY	SECTOR
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 "OSI 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
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 ITALKYR CJSC	KYRGYZ REPUBLIC	TOUR
ARMENIA HOTEL COMPLEX CLOSED JOINT STOCK COMPANY	ARMENIA	TOUR
SEVEN HILLS INTERNATIONAL HOTEL, TOURISM & TRADE A.S.	TURKEY	TOUR

PROJECT NAME	COUNTRY	SECTOR
TAYL LIMITED	AFGHANISTAN	TOUR
JOINT VENTURE ITALKYR 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
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
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

PROJECT NAME	COUNTRY	SECTOR
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
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 BARZNI, CITIBANK	IRAQ	N/A
SAROALA 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

PROJECT NAME	COUNTRY	SECTOR
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
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, LONDON 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
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

PROJECT NAME	COUNTRY	SECTOR
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
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 – 2013 ACTIVE PROJECTS

This table lists projects active as of September 30, 2014 that were screened as part of the 2013 GHG inventory development process.

PROJECT NAME	COUNTRY NAME	SECTOR
FINANCE		
ACADEMIC MEDICAL CENTER SDN BHD	MALAYSIA	Services
ACCESS AFRICA FUND	AFRICA REGIONAL	Financial Services
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
Africa Finance Corporation	AFRICA REGIONAL	Financial Services
Aga Khan Hospital and Medical College Founda	PAKISTAN	Services
AKBANK T.A.S.	TURKEY	Financial Services
AL TAMWEEL AL SAREE LIMITED	IRAQ	Financial Services
ALISTAIR JAMES COMPANY LIMITED	TANZANIA	Transportation
Alto Maipo SpA	CHILE	Energy - Power
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
AMANECER SPA	CHILE	Energy - Power
AMERICAN EMBASSY SCHOOL OF LUSAKA	ZAMBIA	Services
AMERICAN INTERNATIONAL SCHOOL OF ABUJA	NIGERIA	Services
AMERICAN INTERNATIONAL SCHOOL OF MONROVIA IN	LIBERIA	Services
AMERICAN INTERNATIONAL SCHOOL SYSTEMS, INC.	PAKISTAN	Services
American Intl. School of Bamako	MALI	Services
American Intl. School-Kingston	JAMAICA	Services
AMERICAN UNIVERSITY IN BULGARIA	BULGARIA	Services
American University of Central Asia (Tranche	KYRGYZSTAN	Services
American University of Central Asia (Tranche	KYRGYZSTAN	Services
American Wool III	AFGHANISTAN	Agriculture
AMETHIS AFRICA FINANCE LIMITED	AFRICA REGIONAL	Financial Services
AMTECH SP.ZO.O	POLAND	Construction
ARGENTINA OLIVE RANCH	ARGENTINA	Agriculture
ARMENIA HOTEL COMPLEX - 2	ARMENIA	Tourism/Hotels
APPLIED SOLAR TECHNOLOGIES INDIA PRIVATE LTD	INDIA	Energy - Power
AUSTRALIS AQUACULTURE LLC	VIETNAM	Agriculture
AUTO SERVICE CAUCASUS LTD	GEORGIA	Services
Avantel S.A.S.	COLOMBIA	Communication
Aventura Investment Partners LLC	SENEGAL	Agriculture
Azura-Edo Power Project- Junior Loan	NIGERIA	Energy - Power
Azura-Edo Power Project- Senior Loan	NIGERIA	Energy - Power
AZURE POWER (GUJARAT) PVT LTD - SUNEDISON	INDIA	Energy - Power
AZURE POWER HARYANA PRIVATE LIMITED	INDIA	Energy - Power
AZURE POWER PUNJAB PRIVATE LIMITED	INDIA	Energy - Power
Azure Sunlight Private Limited	INDIA	Energy - Power
BAC INTERNATIONAL BANK,INC. (TRANCHE A)	PANAMA	Financial Services
BAC INTERNATIONAL BANK,INC. (TRANCHE B)	PANAMA	Financial Services
Baladi Mall (New Subsidy Reissuance)	WEST BANK	Construction

BANCA DE FINANTE SI COMERT S.A.	MOLDOVA	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 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 Mountain Renewables Wind Power Project	JAMAICA	Energy - Power
BRAC AFRICA MICROFINANCE, LTD. (CLASS B)	TANZANIA	Financial Services
BRAC International Loan Facility ("BILF")	AFRICA REGIONAL	Financial Services
BRAVO ENERGY MEXICO SRL DE CV	MEXICO	Energy - Oil and Gas
BRAZILIAN EMERALDS,INC.	BRAZIL	Mining
Bridge International Academy	KENYA	Services
BROAD COVE ECOHOMES LIBERIA, INC.	LIBERIA	Construction
BURN MANUFACTURING COMPANY	AFRICA REGIONAL	Manufacturing
C21 BRASIL DESENVOLVIMENTO IMOBILAIRO LTDA	BRAZIL	Financial Services
CAFR-AMERICAN INTERNATIONAL SCHOOL LAGOS	NIGERIA	Services
CAFR-BEL PYPYRUS 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
Caspian Impact Investments	INDIA	Financial Services
CCA2-GRUPO M HOLDING S.A.	COSTA RICA	Financial Services
CEL SOL S.A.P.I. DE CV	MEXICO	Manufacturing
CENTRO DE SERVICOS INTERNACIONAIS DE SAUDE,	ANGOLA	Services
CGLOB - Jamaica Public Service Company Limit	JAMAICA	Energy - Power
CGLOB-AIC-INVEST	KAZAKHSTAN	Financial Services
CGLOB-ASTARTA-KYIV LLC	UKRAINE	Agriculture
CGLOB-ATTIJARIWABA BANK ("ATW")	MOROCCO	Financial Services
CGLOB-BANCO DEL PAIS, S.A.	HONDURAS	Financial Services
CGLOB-CAL Bank	GHANA	Financial Services
CGLOB-CHI LIMITED	NIGERIA	Manufacturing
CGLOB-COMPANIA AZUCARERA SALVADORENA, S.A.DE	EL SALVADOR	Manufacturing
CGLOB-DIGICEL (PNG) LIMITED	PAPUA NEW GUINEA	Communication
CGLOB-Grupo Jaremar	HONDURAS	Manufacturing
CGLOB-PAKISTAN MOBIL COMMUNICATIONS LIMITED	PAKISTAN	Communication
CGLOB-POLTAVSKE HPP/KONONIVSKY ELEVATOR LL	UKRAINE	Agriculture
CGLOB-TSKB	TURKEY	Financial Services
CHF LEBANON REPLACEMENT FACILITY	LEBANON	Financial Services
CHF/L-COOPERATIVE HOUSING FOUNDATION LEBANON	LEBANON	Financial Services
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-CREDIQ, SA DE CV & CREDITZ INVERSIONES	COSTA RICA	Financial Services
CHOUS-JOINT STOCK COMPANY TBC BANK	GEORGIA	Financial Services
Cinepax Corp.	PAKISTAN	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-ACBA Credit Agricole Bank CJSC (round	ARMENIA	Financial Services
CMFI-2-BANCO FAMILIAR S.A.E.C.A.	PARAGUAY	Financial Services
CMFI-2-Banco Pichincha	ECUADOR	Financial Services
CMFI-2-BANCO PROCREDIT S.A.	ECUADOR	Financial Services
CMFI-2-BANK DANAMON INDONESIA PT TBK	INDONESIA	Financial Services
CMFI-2-BANK OF GEORGIA	GEORGIA	Financial Services
CMFI-2-FINANCIERA CREDITOS AREQUIPOS, SA	PERU	Financial Services
CMFI-2-FINANCIERA EDYFICAR, S.A.	PERU	Financial Services
CMFI-2-Fundacion Genesis Empresarial	GUATEMALA	Financial Services
CMFI-2-Janalakshmi Financial Services Privat	INDIA	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-SKS	INDIA	Financial Services
CMFI-2-Ujjivan Financial Services Private Li	INDIA	Financial Services
CMFI-2-VISION BANCO S.A.E.C.A.	PARAGUAY	Financial Services
CMFI-OPPORTUNITY MICROCREDIT ROMANIA ("OMRO")	ROMANIA	Financial Services
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
CRECERA (LATIN AMERICA EXPORT FINANCE FUND)	LATIN AMERICA REGION	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 ARRENDAMIENTO MERCANTIL S.A.P.I.	BRAZIL	Services
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 ABC Islands	ARUBA	Financial Services
CSI LEASING POLSKA SP.Z.O.O ET AL	EUROPE REGIONAL	Financial Services
DATASPACE PARTNERS, LLC	RUSSIA	Financial Services
DESARROLLOS DE LOS SUENOS, S.A.	ARGENTINA	Tourism/Hotels
DIG CAPITAL LLC	HAITI	Financial Services
DIG-SOFIHDES	HAITI	Financial Services
DISI WATER PSC	JORDAN	Services
EGYPT-AL WATANY BANK	EGYPT	Financial Services
EGYPT-COMMERCIAL INTERNATIONAL BANK	EGYPT	Financial Services
EMERGING MARKETS CONSULTING (PRIVATE) LTD.	PAKISTAN	Financial Services
ESP URJA PRIVATE LIMITED	INDIA	Energy - Power
Eye Fund	ALL OPIC COUNTRIES	Financial Services
Financiera Educativa de Mexico SA de CV SFOL	MEXICO	Financial Services
FINANCIERA TFC, S.A.	PERU	Financial Services
FINCA INTERNATIONAL	ALL OPIC COUNTRIES	Financial Services
Firefly Investments 230 (Pty) Ltd.	SOUTH AFRICA	Energy - Power
First City Monument Bank	NIGERIA	Financial Services
First Mortgage Company	ARMENIA	Financial Services
First Mortgage Company II	ARMENIA	Financial Services
FIXED RATE FUNDING & LIQUIDITY LTD (HWD SPA)	ALGERIA	Services
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
Generacion Solar SpA	CHILE	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
GILBERTO J.M.GONZALEZ/DBA/FERRETERIA MORALES	NICARAGUA	Services
GLOBAL COMMERCIAL MICROFINANCE CONSORTIUM II	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
GLOBAL PARTNERSHIPS SOCIAL INVMT FUND 5.0	LATIN AMERICA REGION	Financial Services
GLOBOKAS PERU, S.A.C.	PERU	Financial Services
GMT HOTELS, LLC	GEORGIA	Tourism/Hotels
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
Hawa Energy	PAKISTAN	Energy - Power
HEALTHPOINT SERVICES INDIA	INDIA	Services
HIGHER EDUCATION FINANCE FUND (HEFF)	LATIN AMERICA REGION	Financial Services

HUMBOLDT CURRENT (PERU)	PERU	Energy - Power
HUSK POWER SYSTEMS, INC.	INDIA	Energy - Power
IDFC	INDIA	Financial Services
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
IKH TOKHOIROL LLC	MONGOLIA	Mining
INDUSTRIAL DPR FUNDING LTD.	GUATEMALA	Financial Services
INNOVIDA HOLDINGS LLC	HAITI	Manufacturing
INTER-MAC INTERNATIONAL, INC.	HONDURAS	Financial Services
INTERNATIONAL COMMUNITY SCHOOL LIMITED	GHANA	Services
INTERNATIONAL COMMUNITY SCHOOL LIMITED	GHANA	Services
International School of Kenya Limited	KENYA	Services
INTL CO FOR ENERGY TECHNOLOGY INDUSTRIES	JORDAN	Construction
INTL CO FOR ENERGY TECHNOLOGY INDUSTRIES	JORDAN	Construction
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
Itau 2014	BRAZIL	Financial Services
Janalakshmi Financial Services Pvt. Ltd.	INDIA	Financial Services
Jhampir Power (Private) Limited	PAKISTAN	Energy - Power
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-CAPITAL BANK OF JORDAN	JORDAN	Financial Services
JORDAN-HOUSING BANK FOR TRADE AND FINANCE	JORDAN	Financial Services
JORDAN-JORDAN AHLI BANK	JORDAN	Financial Services
JORDAN-JORDAN KUWAIT BANK	JORDAN	Financial Services
JOSHI TECHNOLOGIES INTERNATIONAL INC. III	COLOMBIA	Energy - Oil and Gas
JOSHI TECHNOLOGIES INTERNATIONAL, INC.	COLOMBIA	Energy - Oil and Gas
JSC BANK OF GEORGIA	GEORGIA	Financial Services
JSC PROCREDIT BANK GEORGIA	GEORGIA	Financial Services
JSC PROCREDIT BANK GEORGIA	GEORGIA	Financial Services
JSC WENGEORGIA	GEORGIA	Services
JUBA HOTEL	SOUTH SUDAN	Tourism/Hotels
KABUL GRAND RESIDENCES LLC	AFGHANISTAN	Construction
KORET ISRAEL ECONOMIC DEVELOPMENT FUNDS	ISRAEL	Financial Services
LA FUTURA, S.A.	GUATEMALA	Agriculture
LA HIPOTECARIA EL SALVADORIAN MORTGAGE TRST	EL SALVADOR	Financial Services
LA HIPOTECARIA PANAMANIAN MORTGAGE TRUST 10	PANAMA	Financial Services
La Hipotecaria Panamanian Mortgage Trust 201	PANAMA	Financial Services
LAFISE GROUP PANAMA, INC.	PANAMA	Financial Services
LCF SPV	ALL OPIC COUNTRIES	Financial Services
LIBERIAN ENTERPRISE DEVELOPMENT FINANCE CO.	LIBERIA	Financial Services
LLC "WINNER IMPORTS UKRAINE, LTD"	UKRAINE	Services
Los Molinos	COLOMBIA	Energy - Power
MAJESTIC GROUP KOREA	KOREA (SOUTH)	Services
Master Wind Energy Limited	PAKISTAN	Energy - Power
MEDICAL CREDIT FUND	AFRICA REGIONAL	Financial Services
MEII-2- CAIRO AMMAN BANK (SME INCREASE)	WEST BANK	Financial Services

MEII-2-ARAB BANK	WEST BANK	Financial Services
MEII-2-Arab Bank 2	WEST BANK	Financial Services
MEII-2-Bank of Jordan	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-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-QUDS BANK FOR DEVELOPMENT & INVEST	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-CAIRO AMMAN BANK	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
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
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
Moquegua FV S.A.C.	PERU	Energy - Power
MTANGA FARMS LIMITED	TANZANIA	Manufacturing
NCB2-TURK EKONOMI BANKASI A.S. PURPOSE B	TURKEY	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-TRANSCAPITAL BANK JSC	RUSSIA	Financial Services
Negev Energy	ISRAEL	Energy - Power
NEW YORK PIZZA CO. LTD.	RUSSIA	Services
NEXTGEN SOLAWAZI LIMITED	TANZANIA	Energy - Power
NF Rus Ltd.	RUSSIA	Services
NU STRATA LOGISTICS	LIBERIA	Services
NUMOTECH, INC.	RUSSIA	Manufacturing
ORPOWER 4 GEOTHERMAL	KENYA	Energy - Power
PACIFIC COLLECTION COMPANY/TRIBAL LOOM	AFGHANISTAN	Manufacturing
PALESTINIAN POLITICAL RISK INSURANCE PROJECT	WEST BANK	Financial Services
PAMIGA Finance S.A.	AFRICA REGIONAL	Financial Services
PANNONIA ETHANOL ZTR	HUNGARY	Manufacturing
PARKO SERVICES S.A.	COLOMBIA	Energy - Oil and Gas
PARKO SERVICES S.A.	COLOMBIA	Energy - Oil and Gas
Parque Solar Fotovoltaico Luz Del Norte, SpA	CHILE	Energy - Power
PARTNERS FOR SUSTAINABLE DEV'MENT -NETKETABI	WEST BANK	Financial Services
PATRIA CREDIT INSTITUTIE FINANCIARA NEBAN SA	ROMANIA	Financial Services
PJ WESTERN RETAIL INVESTMENTS LTD I	RUSSIA	Services
PJ WESTERN RETAIL INVESTMENTS LTD II	RUSSIA	Services
PLAZA LOGISTICA S.R.L.	ARGENTINA	Construction
PLAZA LOGISTICA S.R.L. II	ARGENTINA	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. 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
PV Salvador	CHILE	Energy - Power
PREFABRICADOS Y MODULARES DE MONTERREY(PYMM)	MEXICO	Construction
QUANTUMID TECHNOLOGIES (INDIA) PVT. LTD.	INDIA	Services
REFORMA BLN-BACKED I	MEXICO	Financial Services
RLJ LIBERIA, LLC	LIBERIA	Construction
RMA FINANCIAL SERVICES (CAMBODIA) PLC	CAMBODIA	Services
ROOT CAPITAL II	ALL OPIC COUNTRIES	Financial Services
RPK-VYSOTSK "LUKOIL-II"	RUSSIA	Energy - Oil and Gas
SAFI APPAREL CORPORATION	AFGHANISTAN	Manufacturing
SAFI APPAREL CORPORATON	AFGHANISTAN	Manufacturing
Salvatierra Desarrollos Urbanos SA de CV	MEXICO	Financial Services
SAN ANDRES SPA	CHILE	Energy - Power
Sante GMT 4	GEORGIA	Manufacturing
Sante GMT Products - 2	GEORGIA	Manufacturing
SANTE GMT PRODUCTS, LLC	GEORGIA	Manufacturing
Sapphire Wind Power	PAKISTAN	Energy - Power
SCHULTZE MONGOLIA DEBT FACILITY LIMITED	MONGOLIA	Financial Services
SEAF SME DEBT FACILITY LLC (SUNSHINE EXPORT)	PERU	Agriculture
SEAF-FBT AD (JIMMY'S)	BULGARIA	Services
SEAF-Food Service	GEORGIA	Services
SEKER MORTGAGE FINANSMAN A.S.	TURKEY	Financial Services
SME FINANCE COMPANY	AFRICA REGIONAL	Financial Services
SHARED INTEREST, INC.	SOUTH AFRICA	Financial Services
SIMPA Networks	INDIA	Services
SLID INDUSTRIES, LTD.	GHANA	Manufacturing
SOCIEDAD CONCESIONARIA VESPUCCIO NORTE EXPRES	CHILE	Construction
SOM OTELCILIK VE TURIZM TICARET A.S.	TURKEY	Tourism/Hotels
SOUTH AFRICA FINANCING ENTERPRISE	SOUTH AFRICA	Construction
SSJD BIOENERGY	PAKISTAN	Services
ST. MARCHE SUPERMERCADOS (BRAZIL)	BRAZIL	Services
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	Manufacturing
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	Services
SUMMIT ASSOCIATES, LTD.	AFGHANISTAN	Services
SUMMIT HOTELS LIMITED/SUMMIT GLOBAL GROUP	IRAQ	Tourism/Hotels
SunEdison Jordan	JORDAN	Energy - Power
SUSTAINABLE ENERGY SERVICES AFGHANISTAN	AFGHANISTAN	Energy - Power
TACNA SOLAR S.A.C. AND PANAMERICANA SOLAR	PERU	Energy - Power
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
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-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 (2nd Tranche)	CAMBODIA	Financial Services
THE ATLANTIC	IRAQ	Construction
THE COOPERATIVE HOUSING FOUNDATION LEBANON	LEBANON	Financial Services
The Fifties	BRAZIL	Services
TIB Diversified Payment Rights Finance Compa	TURKEY	Financial Services
TPL PROPERTIES (PVT) LIMITED	PAKISTAN	Construction
TPL TRAKKER	PAKISTAN	Services
Treetops Capital Agribusiness Facility LLC	ROMANIA	Financial Services
Tres Mesas	MEXICO	Energy - Power
Tres Mesas - 2	MEXICO	Energy - Power
TURKIYE GARANTI BANKASI A.S.	TURKEY	Financial Services
UMBRALCAPITAL, S.A.P.I. DE C.V.	MEXICO	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
VERIDA CREDIT IFN S.A. II	ROMANIA	Financial Services
VITAS INSTITUTIE FINANCIARA NEBANCARA S. A.	ROMANIA	Financial Services
Vivalia	MEXICO	Financial Services
W3-BANCO FINANCIERA COMERCIAL HONDURENA, S.A	HONDURAS	Financial Services
W3-BANCO SAFRA S.A.	BRAZIL	Financial Services
W3-CREDICORP BANK	PANAMA	Financial Services
W3-MULTIBANK, INC.	PANAMA	Financial Services
W3-TURKIYE GARANTI BANKASI AS	TURKEY	Financial Services
W3-YES BANK LIMITED	INDIA	Financial Services
W4-FirstRand Bank	SOUTH AFRICA	Financial Services
W4-PT BANK DANAMON INDONESIA TBK	INDONESIA	Financial Services
WANACHI GROUP HOLDINGS LTD	AFRICA REGIONAL	Communication
WBC-AFRICAN BANKING CORPORATION TANZANIA LTD	TANZANIA	Financial Services
WBC-African Banking Corporation Zambia Ltd.	ZAMBIA	Financial Services
WBC-ANALISTAS DE RECURSOS GLOBALES SAPI	MEXICO	Financial Services
WBC-ARDSHININVESTBANK CJSC	ARMENIA	Financial Services
WBC-ARDSHININVESTBANK CJSC 2	ARMENIA	Financial Services
WBC-Arendadora y Comercializadora Lingo SA	MEXICO	Financial Services
WBC-ATLANTIC GROUP LIMITED	UKRAINE	Services
WBC-ATLANTIC GROUP LIMITED ("AGL")	UKRAINE	Services
WBC-BANCO CATHAY DE COSTA RICA S.A.	COSTA RICA	Financial Services
WBC-Banco Improsa	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-COMERCIAL LAEISZ, S.A. DE C.V.	HONDURAS	Services
WBC-Credit Moscow Bank	RUSSIA	Financial Services
WBC-CREDIT-MOSCOW BANK JOINT STOCK COMPANY	RUSSIA	Financial Services
WBC-DEGRESS HOLDINGS LIMITED	UKRAINE	Services
WBC-DOCUFORMAS S.A.P.I. DE C.V.	MEXICO	Financial Services
WBC-FINANCIERA DESYFIN S.A.	COSTA RICA	Financial Services
WBC-Georgia Leasing	GEORGIA	Financial Services
WBC-GEORGIAN LEASING COMPANY	GEORGIA	Financial Services
WBC-Grama Vidiyal Microfinance	INDIA	Financial Services
WBC-GRAMA VIDYAL MICROFINANCE (SUBDEBT)	INDIA	Financial Services
WBC-ICS PRIME CAPITAL SRL	MOLDOVA	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-KELLEY GRAINS CORPORATION S.R.L.	MOLDOVA	Manufacturing
WBC-Kineret SA	COSTA RICA	Financial Services
WBC-MUGANBANK OJSC	AZERBAIJAN	Financial Services
WBC-MUGANBANK OJSC	AZERBAIJAN	Financial Services
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-OPERADORA DE SERVICIOS MEGA, S.A. DE C.	MEXICO	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-Satin Creditcare Network Limited (Seni	INDIA	Financial Services
WBC-Satin Creditcare Network Limited (Subo	INDIA	Financial Services
WBC-SERVICIOS Y FINANCIAMIENTO AGRICOLA S.A. DE C.V.SOFOM E.N.R.	MEXICO	Financial Services
WBC-TuranBank II	AZERBAIJAN	Financial Services
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
WFUSBF - BRAZILIEROS VENTURE, LLC (WISENBAKER2)	BRAZIL	Manufacturing
WFUSBF - AIDS Healthcare Foundation	AFRICA REGIONAL	Services
WFUSBF - Tebagas Holdings, BV	MOROCCO	Agriculture
ZAO COMMERCIAL BANK DELTACREDIT	RUSSIA	Financial Services
ZAO NUMOTECH-SPEKTR	RUSSIA	Manufacturing
ZAO STAR NETWORKS	RUSSIA	Communication
ZBE PARTNERS EAD	BULGARIA	Energy - Power
Zimbabwe Mortgage Company	ZIMBABWE	Financial Services

PROJECT NAME	COUNTRY NAME	SECTOR
FUNDS		
AAF SUB-FUND	AFRICA REGIONAL	Financial Services
ACCESSION MEZZANINE CAPITAL III, L.P.	EUROPE 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
AFRICA TELECOM, MEDIA & TECHNOLOGY FUND LLC	AFRICA REGIONAL	Financial Services
AL SIS MEXICO OPPORTUNITIES FUND	MEXICO	Financial Services
ASIA DEVELOPMENT PARTNERS III, LP	INDIA	Financial Services
CAPITAL ALLIANCE PROPERTY INVESTMENT CO., LP	NIGERIA	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
LATIN IDEA MEXICO VENTURE CAPITAL FUND III	MEXICO	Financial Services
LATIN POWER III INVESTMENTS, L.P.	LATIN AMERICA REGION	Financial Services
MAGHREB PRIVATE EQUITY III, LLC	AFRICA REGIONAL	Financial Services
MEKONG RENEWABLE RESOURCES FUND	VIETNAM	Financial Services
Paladin Latin America Investors IV LP	LATIN AMERICA REGION	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
Paladin Realty Latin America Investors IV, L	LATIN AMERICA REGION	Financial Services
Pembani Remgro Infrastructure Fund	AFRICA 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
SILVERLANDS FUND	AFRICA REGIONAL	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

PROJECT NAME	COUNTRY NAME	SECTOR
INSURANCE		
A B I GROUP LTD	AFGHANISTAN	MANUFACTURING
A B I GROUP LTD	AFGHANISTAN	MANUFACTURING
A R C CONSTRUCTION CO L L C	AFGHANISTAN	CONSTRUCTION
ABI GROUP	AFGHANISTAN	MANUFACTURING
ASIA FOUNDATION	AFGHANISTAN	SERVICES
ASIA FOUNDATION	AFGHANISTAN	SERVICES
CHEMONICS INTERNATIONAL INC	AFGHANISTAN	SERVICES
DEVELOPMENT ALTERNATIVES INC. (DAI)	AFGHANISTAN	SERVICES
INTERNATIONAL RESCUE COMMITTEE	AFGHANISTAN	SERVICES
CHEMONICS INTERNATIONAL INC	ALBANIA	SERVICES
CHEMONICS INTERNATIONAL INC	ANGOLA	SERVICES
SEABOARD OVERSEAS LTD	ANGOLA	MANUFACTURING
CHEMONICS INTERNATIONAL INC	ANTIGUA/BARBUDA	SERVICES
MARTINEZ, PHILIP C	ARGENTINA	AGRICULTURE
CHEMONICS INTERNATIONAL INC	ARMENIA	SERVICES
CHEMONICS INTERNATIONAL INC	AZERBAIJAN	SERVICES
MICROVEST + PLUS LP	AZERBAIJAN	FINANCIAL SERVICES
MICROVEST SHORT-DURATION FUND LP	AZERBAIJAN	FINANCIAL SERVICES
MICROVEST SHORT-DURATION FUND LP	AZERBAIJAN	FINANCIAL SERVICES
ASIA FOUNDATION	BANGLADESH	SERVICES
ASIA FOUNDATION	BANGLADESH	SERVICES
CHEMONICS INTERNATIONAL INC	BANGLADESH	SERVICES
DEVELOPMENT ALTERNATIVES INC. (DAI)	BANGLADESH	SERVICES
STEADFAST INSURANCE CO	BENIN	ENERGY - OIL AND GAS
CHEMONICS INTERNATIONAL INC	BOLIVIA	SERVICES
DELPHOS INTERNATIONAL LTD	BOLIVIA	COMMUNICATION
CHEMONICS INTERNATIONAL INC	BOSNIA-HERZEGOVINA	SERVICES
CHEMONICS INTERNATIONAL INC	BOTSWANA	SERVICES



ASSURANT INC	BRAZIL	FINANCIAL SERVICES
BANK OF NEW YORK	BRAZIL	COMMUNICATION
NATIONAL CITY BANK	BRAZIL	FINANCIAL SERVICES
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 LLC	CAMEROON	FINANCIAL SERVICES
INTERNATIONAL RESCUE COMMITTEE	CENTRAL AFRICAN REPUBLIC	SERVICES
INTERNATIONAL RESCUE COMMITTEE	CENTRAL AFRICAN REPUBLIC	SERVICES
INTERNATIONAL RESCUE COMMITTEE	CHAD	SERVICES
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
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
ADRIATIC INVESTMENT MANAGEMENT L L C	CROATIA	FINANCIAL SERVICES
CHEMONICS INTERNATIONAL INC	DJIBOUTI	SERVICES
CHEMONICS INTERNATIONAL INC	DOMINICA	SERVICES
CHEMONICS INTERNATIONAL INC	DOMINICAN REPUBLIC	SERVICES
ASIA FOUNDATION	FAST TIMOR	SERVICES
ASIA FOUNDATION	FAST TIMOR	SERVICES
AIG INSURANCE COMPANY OF CANADA	ECUADOR	TRANSPORTATION
AIG INSURANCE COMPANY OF CANADA	ECUADOR	TRANSPORTATION
CHEMONICS INTERNATIONAL INC	ECUADOR	SERVICES
MICROVEST + PLUS LP	ECUADOR	FINANCIAL SERVICES
MICROVEST SHORT DURATION FUND LP	ECUADOR	FINANCIAL SERVICES
MICROVEST SHORT DURATION FUND LP	ECUADOR	FINANCIAL SERVICES
MICROVEST SHORT DURATION FUND LP	ECUADOR	FINANCIAL SERVICES
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	FINANCIAL SERVICES
CHEMONICS INTERNATIONAL INC	EL SALVADOR	SERVICES
CHEMONICS INTERNATIONAL INC	ETHIOPIA	SERVICES
INTERNATIONAL RESCUE COMMITTEE	ETHIOPIA	SERVICES
CHEMONICS INTERNATIONAL INC	GEORGIA	SERVICES
MICROVEST SHORT-DURATION FUND LP	GEORGIA	FINANCIAL SERVICES
MICROVEST SHORT-DURATION FUND LP	GEORGIA	FINANCIAL SERVICES
ACCESS AFRICA FUND LLC	GHANA	FINANCIAL SERVICES
ACCESS AFRICA FUND LLC	GHANA	FINANCIAL SERVICES
BELSTAR CAPITAL LIMITED	GHANA	SERVICES
BELSTAR CAPITAL LIMITED	GHANA	CONSTRUCTION
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
CITIBANK N A	HUNGARY	FINANCIAL SERVICES
MEMC ELECTRONICS MATERIALS, INC.	INDIA	MANUFACTURING
MEMC ELECTRONICS MATERIALS, INC.	INDIA	ENERGY - POWER
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
ASIA FOUNDATION	INDONESIA	SERVICES
CHEMONICS INTERNATIONAL INC	INDONESIA	SERVICES
INTERNATIONAL RESCUE COMMITTEE	IRAQ	SERVICES
LINDSAY INTERNATIONAL SALES & SERVICE LLC	IRAQ	SERVICES
LINDSAY INTERNATIONAL SALES & SERVICE LLC	IRAQ	SERVICES
AES CORPORATION	JORDAN	MANUFACTURING
CHEMONICS INTERNATIONAL INC	JORDAN	SERVICES
CITIBANK NA	JORDAN	FINANCIAL SERVICES
GENERAL ELECTRIC CAPITAL CORPORATION	JORDAN	SERVICES
INTERNATIONAL RESCUE COMMITTEE	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
GOOGLE INC	KENYA	MANUFACTURING
INTERNATIONAL RESCUE COMMITTEE	KENYA	SERVICES
WESTROCK COFFEE HOLDINGS LLC	KENYA	AGRICULTURE
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
INTERNATIONAL RESCUE COMMITTEE	LEBANON	SERVICES
LEBANESE AMERICAN UNIVERSITY	LEBANON	SERVICES
NATIONAL CITY BANK	LEBANON	FINANCIAL 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	MALI	SERVICES
AMERICAN INTERNATIONAL SCHOOL OF BAMAKO FOUNDATION INC	MALI	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
MICROVEST SHORT DURATION FUND LP	NICARAGUA	FINANCIAL SERVICES
ZAMORA, ROBERTO	NICARAGUA	FINANCIAL SERVICES
CHEMONICS INTERNATIONAL INC	NIGER	SERVICES
AMERICAN INTERNATIONAL SCHOOL OF ABUJA FOUNDATION INC	NIGERIA	SERVICES
AMERICAN INT'L SCHOOL OF ABUJA	NIGERIA	SERVICES
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	FINANCIAL SERVICES
INTERNATIONAL RESCUE COMMITTEE	PAKISTAN	SERVICES
CHEMONICS INTERNATIONAL INC	PANAMA	SERVICES
CHEMONICS INTERNATIONAL INC	PARAGUAY	SERVICES
CHEMONICS INTERNATIONAL INC	PERU	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	SERVICES
CHEMONICS INTERNATIONAL INC	RISK	SERVICES
CITIBANK NA	RISK	FINANCIAL SERVICES
CITIBANK NA	RISK	FINANCIAL SERVICES
DEVELOPMENT ALTERNATIVES, INC.	RISK	SERVICES
INTERNATIONAL RESCUE COMMITTEE	RISK	SERVICES
CITIBANK N A	ROMANIA	FINANCIAL SERVICES
A C D RESEARCH INC	RUSSIA	SERVICES
A C D RESEARCH INC	RUSSIA	SERVICES
INTERNATIONAL RESCUE COMMITTEE	RUSSIA	SERVICES
MICROVEST + PLUS LP	RUSSIA	FINANCIAL SERVICES
MICROVEST SHORT DURATION FUND LP	RUSSIA	FINANCIAL 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
WESTROCK COFFEE HOLDINGS LLC	RWANDA	AGRICULTURE
WESTROCK COFFEE HOLDINGS LLC	RWANDA	AGRICULTURE
WESTROCK COFFEE HOLDINGS LLC	RWANDA	AGRICULTURE
WESTROCK COFFEE HOLDINGS LLC	RWANDA	AGRICULTURE
INTERNATIONAL RESCUE COMMITTEE	SIERRA LEONE	SERVICES
INTERNATIONAL RESCUE COMMITTEE	SOMALIA	SERVICES
CHEMONICS INTERNATIONAL INC	SOUTH AFRICA	SERVICES

SUN EDISON INC	SOUTH AFRICA	ENERGY - POWER
INTERNATIONAL RESCUE COMMITTEE	SOUTH SUDAN	SERVICES
ASIA FOUNDATION	SRI LANKA	SERVICES
ASIA FOUNDATION	SRI LANKA	SERVICES
CHEMONICS INTERNATIONAL INC	TAJIKISTAN	SERVICES
MICROVEST + PLUS LP	TAJIKISTAN	FINANCIAL SERVICES
MICROVEST + PLUS LP	TAJIKISTAN	FINANCIAL SERVICES
MICROVEST SHORT DURATION FUND LP	TAJIKISTAN	FINANCIAL SERVICES
MICROVEST SHORT DURATION FUND LP	TAJIKISTAN	FINANCIAL SERVICES
CHEMONICS INTERNATIONAL INC	TANZANIA	SERVICES
INTERNATIONAL RESCUE COMMITTEE	TANZANIA	SERVICES
WESTROCK COFFEE HOLDINGS LLC	TANZANIA	AGRICULTURE
ASIA FOUNDATION	THAILAND	SERVICES
ASIA FOUNDATION	THAILAND	SERVICES
INTERNATIONAL RESCUE COMMITTEE	THAILAND	SERVICES
CONTOURGLOBAL TOGO L L C	TOGO	ENERGY - POWER
STEADFAST INSURANCE CO	TOGO	ENERGY - OIL AND GAS
CITIBANK N A	TURKEY	FINANCIAL SERVICES
INTERNATIONAL RESCUE COMMITTEE	TURKEY	SERVICES
CHEMONICS INTERNATIONAL INC	UGANDA	SERVICES
INTERNATIONAL RESCUE COMMITTEE	UGANDA	SERVICES
WESTROCK COFFEE HOLDINGS LLC	UGANDA	AGRICULTURE
AMSTED RAIL COMPANY INC	UKRAINE	MANUFACTURING
CHEMONICS INTERNATIONAL INC	UKRAINE	SERVICES
CITIBANK N A	UKRAINE	FINANCIAL 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
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
INTERNATIONAL RESCUE COMMITTEE	YEMEN	SERVICES
ACCESS AFRICA FUND LLC	ZAMBIA	FINANCIAL SERVICES
ACCESS AFRICA FUND LLC	ZAMBIA	FINANCIAL SERVICES
ACCESS AFRICA FUND LLC	ZAMBIA	FINANCIAL 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
SILVERSTREET PRIVATE EQUITY STRATEGIES SOPARFI SARL	ZAMBIA	AGRICULTURE
INTERNATIONAL RESCUE COMMITTEE	ZIMBABWE	SERVICES

PROJECT NAME	COUNTRY NAME	SECTOR
NON HONORING 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, data sources, and calculations used to estimate the emissions for each of the projects in OPIC’s 2013 GHG Inventory. If applicant feedback was submitted in the years from 2007-2012, operational emissions estimates from those years are also presented in this Appendix C.

TIER A PROJECTS

AES Jordan

Maximum Potential-to-Emit Estimate

AES Jordan’s emissions estimate of **1,545,173 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Description
Capacity	370 MW	Project Description
Emission Factor @ 70% Load	390 g CO ₂ /kWh	IFC 2012
Load Adjustment Factor	85/70	Engineering adjustment to align maximum PTE with operational data supplied by project sponsor for inventory years 2009 through 2012.

Capacity-based maximum Potential-to-Emit = 1,545,173 short tons of CO₂e per year =

$$370\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{85}{70} * \frac{390\text{ g CO}_2}{\text{kWh}} * \frac{0.0000011023\text{ short tons}}{\text{g}}$$

2007 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 Emissions Estimate Based On Applicant Feedback

AES Jordan’s operational emissions estimate of **590,940 short tons of CO₂e** for 2008 was calculated using the following information:

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

Emissions = 590,940 short tons of CO₂e 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 Emissions Estimate Based On Applicant Feedback

AES Jordan’s operational emissions estimate of **1,318,130 short tons of CO₂e** for 2009 was calculated using the following information:

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

Emissions = 1,318,130 short tons CO₂e 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 Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **1,434,569 short tons of CO₂e** for 2010 was calculated using the following information:

Data	Value	Source
Unit 1 Emissions	678,706,541 kg CO ₂	Project Sponsor
Unit 2 Emissions	622,726,311 kg CO ₂	Project Sponsor

Emissions = 1,434,569 short tons of CO₂e per year =

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

2011 Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **1,184,010 short tons of CO₂e** for 2011 was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas & Diesel	Project Sponsor
Total Natural Gas Consumption	11,618,556 MMBtu	Project Sponsor
Total Diesel Consumption	6,256,271 MMBtu	Project Sponsor
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

Emissions = 1,184,010 short tons CO₂e per year =

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

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

2012 Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **936,400 short tons of CO₂e** for 2012 was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas & Diesel	Project Sponsor
Total Natural Gas Consumption	5,069,853 MMBtu	Project Sponsor
Total Diesel Consumption	7,851,448 MMBtu	Project Sponsor
Emission Factor Natural Gas	53.02 kg CO ₂ /MMBtu	TCR 2013
Emissions Factor Diesel	73.96 kg CO ₂ /MMBtu	TCR 2013

Emissions = 971,212 short tons CO₂e per year =

$$5,069,853 \text{ MMBtu} * \frac{53.02 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} +$$

$$7,851,448 \text{ MMBtu} * \frac{73.96 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2013 Emissions Estimate Based On Applicant Feedback

AES Jordan's operational emissions estimate of **1,514,054 short tons of CO₂e** for 2013 was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas & Diesel	Project Sponsor
Natural Gas Consumption (Lower Heating Value)	12,225,755 MMBtu	Project Sponsor
Diesel Consumption (Lower Heating Value)	8,284,456 MMBtu	Project Sponsor
Natural Gas - Conversion Factor to Higher Heating Value	1.108	GREET
Diesel - Conversion Factor to Higher Heating Value	1.070	GREET
Emission Factor Natural Gas	53.02 kg CO ₂ /MMBtu	TCR 2014
Emissions Factor Diesel	73.96 kg CO ₂ /MMBtu	TCR 2014

Emissions = 1,514,054 short tons CO₂e per year =

$$12,225,755 \text{ MMBtu} * \frac{53.02 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} * 1.108 +$$

$$8,284,456 \text{ MMBtu} * \frac{73.96 \text{ kg CO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} * 1.070$$

Contour Global – Togo

Maximum Potential-to-Emit Estimate

Contour Global Togo's emissions estimate of **587,305 short tons of CO₂e** 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	666 g CO ₂ /kWh	IFC 2012

Capacity-based maximum Potential-to-Emit = 587,305 short tons of CO₂e per year =

$$100\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{666\text{ gCO}_2}{\text{kWh}} * \frac{0.0000011023\text{ short tons}}{\text{g}}$$

2011 Emissions Estimate

Contour Global's 2011 operational emissions estimate of **46,561 short tons CO₂e** was calculated using the following information:

Data	Value	Source
2011 Emissions	42,239,975 kg	Project Sponsor
Conversion Factor	0.0011023 short ton/kg	TCR 2008

Emissions = 46,561 short tons of CO₂e per year =

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

2012 Emissions Estimate

Contour Global's 2012 operational emissions estimate of **130,772 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Natural Gas Consumption	591.37 mmscf	Project Sponsor
Natural Gas Calorific Value	1,028 MMBtu/mmscf	TCR 2013
Natural Gas Emission Factor	52.02 kg CO ₂ /MMBtu	TCR 2013
Heavy Fuel Oil (HFO) Consumption	25.42 Gg	Project Sponsor
HFO Net Calorific Value	40.4 TJ/Gg	IPCC 2006. Vol. 2, Chap. 1
HFO Emission Factor	77,400 kg CO ₂ /TJ	IPCC 2006. Vol. 2, Chap. 1
Light Fuel Oil (LFO) Consumption	0.87 Gg	Project Sponsor
LFO Net Calorific Value	43.0 TJ/Gg	IPCC 2006. Vol. 2, Chap. 1
LFO Emissions Factor	74,100 kg CO ₂ /TJ	IPCC 2006. Vol. 2, Chap. 1
Conversion Factor	0.0011023 short ton/kg	

Emissions = 130,772 short tons of CO₂e per year =

$$591.37\text{ mmscf} * 1,028\text{ MMBtu/mmscf} * 52.02\text{ kg CO}_2/\text{MMBtu} * 0.0011023\text{ short ton/kg} +$$

$$25.42\text{ Gg} * 40.4\text{ TJ/Gg} * 77,400\text{ kg CO}_2/\text{TJ} * 0.0011023\text{ short ton/kg} +$$

$$0.87\text{ Gg} * 43.0\text{ TJ/Gg} * 74,100\text{ kg CO}_2/\text{TJ} * 0.0011023\text{ short ton/kg}$$



2013 Emissions Estimate

Contour Global's 2013 operational emissions estimate of **161,830 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Natural Gas Consumption	16,370,416 m ³	Project Sponsor
Natural Gas Higher Heating Value	1,028 MMBtu/mmscf	TCR 2014
Natural Gas Emission Factor	53.02 kg CO ₂ /MMBtu	TCR 2014
Heavy Fuel Oil (HFO) Consumption	34,190,245 kg	Project Sponsor
HFO Gross Calorific Value	43 TJ/Gg	National Physical Laboratory, 2015
HFO Emission Factor	77,400 kg CO ₂ /TJ	IPCC 2006. Vol. 2, Chap. 1
Light Fuel Oil (LFO) Consumption	463,096 kg	Project Sponsor
LFO Gross Calorific Value	44 TJ/Gg	National Physical Laboratory, 2015
LFO Emissions Factor	74,100 kg CO ₂ /TJ	IPCC 2006. Vol. 2, Chap. 1
Conversion Factor	0.0011023 short ton/kg	

Emissions = 161,830 short tons of CO₂e per year =

$$16,370,416 \text{ m}^3 * 34.314 \text{ ft}^3/\text{m}^3 * \frac{1 \text{ mmscf}}{1,000,000 \text{ scf}} * 1,028 \text{ Btu/ scf} * 53.02 \text{ kg CO}_2/\text{MMBtu} * 0.0011023$$

short ton/kg +

$$34,190,245 \text{ kg} * \frac{1 \text{ Gg}}{1,000,000 \text{ kg}} * 43 \text{ TJ/Gg} * 77,400 \text{ kg CO}_2/\text{TJ} * 0.0011023 \text{ short ton/kg} +$$

$$463,096 \text{ kg} * \frac{1 \text{ Gg}}{1,000,000 \text{ kg}} * 44 \text{ TJ/Gg} * 74,100 \text{ kg CO}_2/\text{TJ} * 0.0011023 \text{ short ton/kg}$$

Gaza Private Generating PLC

Maximum Potential-to-Emit Estimate

Gaza Private Generating PLC's emissions estimate of **481,485 short tons of CO₂e** 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	390 g CO ₂ /kWh	IFC 2012

Capacity-based maximum Potential-to-Emit = 481,485 short tons of CO₂e per year =

$$140\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{390 \text{ gCO}_2}{\text{kWh}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

2007 Emissions Estimate

Gaza Private Generating PLC's 2007 operational emissions estimate of **293,804 short tons of CO₂e** was calculated using the following information:

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

Emissions = 293,804 short tons of CO₂e per year =

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

2008 Emissions Estimate

Gaza Private Generating PLC's 2008 operational emissions estimate of **303,535 short tons CO₂e** was calculated using the following information:

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

Emissions = 303,535 short tons of CO₂e per year =

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

2009 Emissions Estimate

Gaza Private Generating PLC's operational emissions estimate of **325,926 short tons of CO₂e** was calculated using the following information:

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

Emissions = 325,926 short tons of CO₂e per year =

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

2010 Emissions Estimate

Gaza Private Generating PLC's operational emissions estimate of **228,627 short tons of CO₂e** was calculated using the following information:

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

Emissions = 228,627 short tons of CO₂e per year =

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

2011 Emissions Estimate

Gaza Private Generating PLC's operational emissions estimate of **405,262 short tons of CO₂e** was calculated using the following information:

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

Emissions = 405,262 short tons of CO₂e per year =

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

2012 Emissions Estimate

Gaza Private Generating PLC's operational emissions estimate of **192 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Natural Gas	Project Sponsor
Natural Gas Consumption	99,093 m ³	Project Sponsor
Natural Gas Emission Factor	0.05 kg CO ₂ /sfc	TCR 2013
Unit Conversion	35.31 scf/ m ³	
Unit Conversion	0.001 metric tons/kg	
Unit Conversion	1.1 short ton/metric ton	

Emissions = 192 short tons of CO₂e per year =

$$99,093 \text{ m}^3 * 35.31 \text{ scf/ m}^3 * 0.05 \text{ kg CO}_2/\text{sfc} * 0.001 \text{ metric tons/kg} * 1.1 \text{ short ton/metric ton}$$

2013 Emissions Estimate

According to Amnesty International news, the Gaza power plant ran at a capacity of 60 MW approximately 12 hours per day up until November 1, 2013, at which point the plant completely shut down. The curtailment in operating days is reflected in the 2013 emissions estimate for Gaza Private Generating PLC.

Data	Value	Source
Fuel Type	Diesel	Project Sponsor
Capacity	60 MW	Project Sponsor
Hours of operation	12 hours/day	Amnesty International News, 2013
Days of year in operation	305	Amnesty International News, 2013
Diesel emission factor	666	IFC, 2012
Unit Conversion	0.0011023 short tons/kg	

Emissions = 161,215 short tons of CO₂e per year =

60 MW * 12 hours/day * 305 days of operation * 666 * 0.0011023

Grenada Electricity Services (WRB)

Maximum Potential-to-Emit Estimate

Grenada Electricity Services (WRB)'s emissions estimate of **105,715 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Capacity	18 MW	Project Description
Diesel Oil Emission Factor	666 g CO ₂ /kWh	IFC 2012

Capacity-based maximum Potential-to-Emit = 105,715 short tons of CO₂e per year =

$$18\text{MW} * \frac{1000\text{kW}}{\text{MW}} * \frac{8000\text{hr}}{\text{yr}} * \frac{666\text{gCO}_2}{\text{kWh}} * \frac{0.0000011023\text{ short tons}}{\text{g}}$$

2007 Emissions Estimate

Grenada Electricity Services (WRB)'s 2007 operational emissions estimate of **114,571 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Fuel Consumption	10,821,042 gallons	Project Sponsor
Heat Rate	8013 Btu/kWh	Project Sponsor
Diesel LHV	70302 Btu/kg	Project Sponsor
Energy Generated	117,323,661 kWh	Project Sponsor
Emissions Factor	73.15 kg CO ₂ /MMBtu	TCR 2008, Table 12-1
2007 Emissions	114,571 short tons	Project Applicant

Emissions = 114,571 of short tons CO₂e per year

2008 Emissions Estimate

Grenada Electricity Services (WRB)'s 2008 operational emissions estimate of **121,156 short tons CO₂e** was calculated using the following information:

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

Emissions = 121,156 short tons CO₂e per year



2009 Emissions Estimate

Grenada Electricity Services (WRB)'s 2009 operational emissions estimate of **141,127 short tons CO₂e** 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 Sponsor
Heat Rate	8,458 kJ/kWh or 8,016 BTU/kWh	Project Sponsor
Diesel LHV	42,400 kJ/kg or 40,188 BTU/kg	Project Sponsor
Energy Generated	194,279,333 kWh	Project Sponsor
Emissions Factor	659 grams CO ₂ /kWh	IFC 2006

Emissions = 141,127 short tons of CO₂e per year =

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

2010 Emissions Estimate

Grenada Electricity Services (WRB)'s 2010 operational emissions estimate of **135,237 short tons of CO₂e** was calculated using the following information:

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

Emissions = 135,237 short tons CO₂e per year

2011 Emissions Estimate

Grenada Electricity Services (WRB)'s 2011 operational emissions estimate of **134,371 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Diesel (Fuel Oil)	Project Description
Fuel Consumption	12,075,555 US gallons	Project Sponsor
Emissions Factor	73.15 kg CO ₂ /MMBtu	TCR 2008
Conversion Factor	42 gal/bbl	TCR 2008
Conversion Factor	5.796 MMBtu/bbl	TCR 2008
Conversion Factor	907.18 kg/short ton	

Emissions = 134,371 short tons of CO₂e per year =

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

2012 Emissions Estimate

Grenada Electricity Services (WRB)'s 2012 operational emissions estimate of **131,510 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Diesel Fuel Consumption	11,685,192 gal	Project Sponsor
Emissions Factor	10.21 kg CO ₂ /gal	TCR 2013
Conversion Factor	0.0011023 short ton/kg	

Emissions = 131,510 short tons of CO₂e per year =

11,685,192 gal * 10.21 kg CO₂/gal * 0.0011023 short ton/kg

2013 Emissions Estimate

Grenada Electricity Services (WRB)'s 2013 operational emissions estimate of **130,221 short tons CO₂e** was calculated using the following information:

Data	Value	Source
Diesel Fuel Consumption	11,570,637 gal	Project Sponsor
Emissions Factor	10.21 kg CO ₂ /gal	TCR 2014
Conversion Factor	0.0011023 short ton/kg	

Emissions = 130,221 short tons of CO₂e per year =

11,570,637 gal * 10.21 kg CO₂/gal * 0.0011023 short ton/kg

Isagen SA

Maximum Potential-to-Emit Estimate

Isagen SA's emissions estimate of **687,835 short tons of CO₂e** 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
Natural Gas Emission Factor	390 g CO ₂ /kWh	IFC 2012

Capacity-based maximum Potential-to-Emit = 687,835 short tons of CO₂e per year

200MW * $\frac{1000\text{kW}}{\text{MW}}$ * $\frac{8000\text{hr}}{\text{yr}}$ * $\frac{390 \text{ gCO}_2}{\text{kWh}}$ * $\frac{0.0000011023 \text{ short tons}}{\text{g}}$

2007 Emissions Estimate

Isagen SA's 2007 operational emissions estimate of **203,010 short tons of CO₂e** 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 tons	Project Sponsor

Emissions = 203,010 short tons of CO₂e per year



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

2008 Emissions Estimate

Per Applicant feedback, emissions were below the 100,000 short tons CO₂e threshold and, thus, were not included in the 2008 inventory.

2009 Emissions Estimate

Isagen SA's 2009 operational emissions estimate of **300,706 short tons of CO₂e** 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 tons	Project Sponsor

Emissions = 300,706 short tons of CO₂e per year

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

2010 Emissions Estimate

Isagen SA's 2010 operational emissions estimate of **305,181 short tons of CO₂e** 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 tons	Project Sponsor

Emissions = 305,181 short tons of CO₂e per year

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

2011 Emissions Estimate

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

2012 Emissions Estimate

No additional data was available. The 2012 emissions estimate defaulted to the 2010 emissions estimate.

2013 Emissions Estimate

Isagen SA's 2013 operational emissions estimate of **775,357 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Natural Gas Consumption	13,179,287 MMBtu	Project Sponsor
Emissions Factor (Natural Gas)	53.02 kg CO2/MMBtu	TCR, 2014
Jet Fuel Consumption	267,083 Gallons	Project Sponsor
Conversion Factor (Jet Fuel)	0.135 MMBtu/gallon	Project Sponsor
Emissions Factor (Jet Fuel)	72.22 kg CO2/MMBtu	TCR, 2014
Diesel Consumption	198,811 Gallons	Project Sponsor
Conversion Factor (Diesel, low sulfur)	0.138 MMBtu/gallon	Project Sponsor
Emissions Factor (Diesel, low sulfur)	73.96 kg CO2/MMBtu	TCR, 2014

Emissions = 775,357 short tons CO_{2e} per year =

$$\frac{13,179,289 \text{ MMBtu} * 53.02 \text{ kg CO}_2/\text{MMBtu}}{1,000 \text{ metric tons/kg}} + \frac{267,083 \text{ gallons} * 0.135 \text{ MMBtu/gallon} * 72.22 \text{ kg CO}_2/\text{MMBtu}}{1,000 \text{ metric tons/kg}}$$

$$+ \frac{198,811 \text{ gallons} * 0.1388 \text{ MMBtu/gallon} * 73.96 \text{ kg CO}_2/\text{MMBtu}}{1,000 \text{ metric tons/kg}}$$

TIER B PROJECTS

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

Emissions = **107,184 short tons CO₂e** per year =

13,893,533 tons * 70,767 short tons of CO₂e
 9,173,100 tons

2007 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 CO₂e** 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 tons	Project Description

Emissions = 76,339 short tons of CO₂e per year =

64,200 metric tons
 0.9072

2008 Emissions Estimate

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

2009 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 CO₂e** 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



Emissions = 76,339 short tons of CO₂e per year =

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

2010 Emissions Estimate

Lukoil's 2010 operational emissions estimate of **97,117 short tons of CO₂e** was calculated using the following information:

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

Emissions = 97,117 short tons of CO₂e per year =

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

2011 Emissions Estimate

Lukoil's 2010 operational emissions estimate of **91,143 short tons of CO₂e** was calculated using the following information:

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

Emissions = 91,143 short tons of CO₂e per year =

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

2012 Emissions Estimate

Lukoil's 2012 operational emissions estimate of **92,696 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Type IV High-Ash Fuel Oil-100	Project Description
Fuel Consumption	26,605,163 kg	Project Description
Net Heat Content	40,837 kJ/kg	Project Description
Emission Factor	77,400 kg CO ₂ /TJ	2006 IPCC, Vol.2, Chap. 1
Conversion Factor	0.001102 kg/short ton	
Conversion Factor	10 ⁻⁹ TJ/kJ	

Emissions = 92,696 short tons of CO₂e per year =

$$26,605,163 \text{ kg} * 40,837 \text{ kJ/kg} * 10^{-9} \text{ TJ/kJ} * 77,400 \text{ kg CO}_2/\text{TJ} * 0.001102 \text{ kg/short ton}$$

2013 Emissions Estimate



Lukoil's 2013 operational emissions estimate of **95,070 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Fuel Type	Type IV High-Ash Fuel Oil-100	Project Description
Fuel Consumption	25,255 metric tons fuel oil	Project Description
Lower Heating Value	41,254 kJ/kg	Project Description
Conversion to Higher Heating Value	1.070	GREET
Emission Factor	77,400 kg CO ₂ /TJ	2006 IPCC, Vol.2, Chap. 1
Conversion Factor	0.001102 kg/short ton	
Conversion Factor	10 ⁻⁹ TJ/kJ	

Emissions = 95,070 short tons of CO₂e per year =

25,255 metric tons * 1,000 kg/metric ton * 41,254 kJ/kg * 1.070 * 10⁻⁹ TJ/kJ * 77,400 kg CO₂/TJ * 0.001102 kg/short ton

Pannonia Ethanol

Maximum Potential-to-Emit Estimate

Pannonia's emissions were calculated using the following information:

Data	Value	Source
Natural Gas Throughput	7,000 m ³ /hr	Project Description
Natural Gas Emission Factor	0.05 kg CO ₂ /scf	TCR 2013
Operating Assumption	8,000 hr/yr	
Conversion Factor	35.31 scf/m ³	
Conversion Factor	0.001102 short tons/kg	

Emissions = 110,543 short tons of CO₂e per year =

7,000 m³/hr * 8,000 hr/yr * 35.31 scf/m³ * 0.05 kg CO₂/scf * 0.001102 short tons/kg

2012 Emissions Estimate

Pannonia's 2012 operational emissions estimate was based on the project sponsors certified 2012 Environmental and Social Compliance Report:

Data	Value	Source
Emissions	58,282 metric tons CO ₂ e	Project Sponsor
Conversion Factor	1,102 short tons/metric ton	

Emissions = 64,244 short tons of CO₂e per year =



58,282 metric tons CO_{2e} * 1,102 short tons/metric ton

2013 Emissions Estimate

Pannonia’s 2013 operational emissions estimate was based on the project sponsors certified 2013 Environmental and Social Compliance Report:

Data	Value	Source
Emissions	84,597 metric tons CO _{2e}	Project Sponsor
Conversion Factor	1.102 short tons/metric ton	

Emissions = 93,251 short tons of CO_{2e} per year =

84,597 metric tons CO_{2e} * 1.1023 short tons/metric ton

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 tons 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 tons CO ₂ per year for a facility that produces 6100 barrels oil per day and 30 mmscf natural gas per day	API 2004, Table 7-4
Multiplication Factor	10	Factor applied to account for approximate size discrepancy between Apache and example
Operating Capacity Adjustment	49%	Project Sponsor

Maximum Potential-to-Emit = 2,429,543 short tons of CO_{2e} per year =

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

2007 Emissions Estimate

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 tons	Project Sponsor
Operating Capacity Adjustment	49%	Project Sponsor

Emissions = 3,071,932 short tons of CO₂e per year =

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

2008 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2008 operational emissions estimate of **3,244,189 short tons of CO₂e** was calculated using the following information:

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

Emissions = 3,244,189 short tons of CO₂e per year =

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

2009 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2009 operational emissions of **3,294,654 short tons of CO₂e** was calculated using the following information:

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

Emissions = 3,294,654 short tons of CO₂e per year =

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

2010 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2010 operational emissions estimate of **3,465,842 short tons of CO₂e** was calculated using the following information:



Data	Value	Source
2010 Emissions	1,540,664 metric tons	Project Sponsor
Operating Capacity	49%	Project Sponsor

Emissions = 3,465,842 short tons of CO₂e per year

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

2011 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2011 operational emissions estimate of **4,438,554 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2010 Emissions	4,026,656 metric tons	Project Sponsor

Emissions = 4,438,554 short tons of CO₂e per year

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

2012 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2012 operational emissions estimate of **4,178,447 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2012 Emissions	3,790,687 metric tons	Project Sponsor

Emissions = 4,178,447 short tons of CO₂e per year =

$$3,790,687 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

2013 Emissions Estimate

Various Egypt Subsidiaries (Apache)'s 2013 operational emissions estimate of **4,056,437 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
2013 Emissions	3,680,000 metric tons	Project Sponsor

Emissions = 4,056,437 short tons of CO₂e per year =

$$3,680,000 \text{ metric tons} * \frac{\text{short tons}}{0.9072 \text{ metric tons}}$$

West African Gas Pipeline

Maximum Potential-to-Emit Estimate

The West African Gas Pipeline's emissions calculation of **244,728 short tons of CO₂e** 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	EIA 2008; EPA 2008, Tables 3-34 & 3-36

Total-emissions estimate = 244,728 short tons of CO₂e per year =

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

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

2007 Emissions Estimate

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 Emissions Estimate

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 Emissions Estimate

No additional data was available. 2009 data defaulted to the maximum potential-to-emit.

2010 Emissions Estimate

West African Gas Pipeline's 2010 operational emissions estimate of **91,451 short tons of CO₂e** 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	EIA 2008; EPA 2008, Tables 3-34 & 3-36

Emissions = 91,451 short tons of CO₂e per year =

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



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

2011 Emissions Estimate

West African Gas Pipeline's 2011 operational emissions estimate is **86,617 short tons of CO₂e**. 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.

2012 Emissions Estimate

West African Gas Pipeline's 2012 operational emissions estimate is **86,617 short tons of CO₂e**. 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, which represent the same emission levels asserted by the Project Applicant for the 2011 GHG Inventory. The level of emissions claimed in 2012 represent 35 percent of the project's maximum potential-to-emit.

2013 Emissions Estimate

No additional data was available for 2013, therefore emissions estimate defaulted to the 2012 emissions estimate of **86,617 short tons of CO₂e**.



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 CO₂e per year

2011 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 CO₂e based on the following information:

Data	Value	Source
Fuel Type	Natural Gas and Coal	Project Description
Capacity	5.4 MW (Natural Gas)	Project Description
Natural Gas Emission Factor	395 g CO ₂ /kWh	IFC 2006
Conversion Factor	0.0000011023 short tons/g	TCR 2008
2011 Fuel Consumption	1,518 short tons Coal	Project Description
Emissions Factor	97.09 kg CO ₂ /MMBtu Coal	TCR 2008, Table 12.1
Conversion Factor	17.25 MMBtu/short ton Coal	TCR 2008, Table 12.1

Emissions = 21,612 short tons of CO₂e per year =

$$5.4 \text{ MW} * \frac{8,000 \text{ hr}}{\text{yr}} * \frac{395 \text{ gCO}_2}{\text{kWh}} * \frac{1000 \text{ kW}}{\text{MW}} * \frac{0.0000011023 \text{ short tons}}{\text{g}}$$

$$+ 1,518 \text{ short tons coal} * \frac{17.25 \text{ MMBtu}}{\text{short ton coal}} * \frac{97.09 \text{ kgCO}_2}{\text{MMBtu}} * \frac{0.0011023 \text{ short tons}}{\text{kg}}$$

2012 Emissions Estimate

CGLOB Astarta Zhadanivka Kyiv LLC's 2012 operational emissions estimate of **36,886 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Natural Gas Consumption	11,840 thousand m ³	Project Sponsor
Natural Gas Emissions Factor	0.05 kg CO ₂ /scf	TCR 2013
Coal Consumption	1,448 metric tons	Project Sponsor
Coal Emissions Factor	2098.89 kg CO ₂ /short ton	TCR 2013
Limestone Consumption	20,931 metric tons	Project Sponsor
CO ₂ / CaCO ₃ Molecular Weight Ratio	0.44	
Conversion Factor	35,310 scf/thousand m ³	
Conversion Factor	0.0011023 short tons/kg	
Conversion Factor	0.9072 metric tons/short ton	

Emissions = 36,886 short tons of CO₂e per year =

$$11,840 \text{ thousand m}^3 * 35,310 \text{ scf/thousand m}^3 * 0.05 \text{ kg CO}_2/\text{scf} * 0.0011023 \text{ short tons/kg} +$$

$$1,448 \text{ metric tons coal} * \frac{\text{short ton}}{0.9072 \text{ metric tons}} * \frac{2,098.89 \text{ kg CO}_2}{\text{short ton coal}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} +$$

$$20,931 \text{ metric tons limestone} * \frac{\text{short ton}}{0.9072 \text{ metric tons}} * \frac{0.44 \text{ CO}_2}{\text{CaCO}_3}$$

2013 Emissions Estimate

CGLOB Astarta Zhadanivka Kyiv LLC's 2013 operational emissions estimate of **38,404 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Natural Gas Consumption	12,406 thousand m ³	Project Sponsor
Natural Gas Emissions Factor	0.05 kg CO ₂ /scf	TCR 2014
Coal Consumption	1,432 metric tons	Project Sponsor
Coal Emissions Factor	2098.89 kg CO ₂ /short ton	TCR 2014
Limestone Consumption	21,873 metric tons	Project Sponsor
CO ₂ / CaCO ₃ Molecular Weight Ratio	0.44	
Conversion Factor	35,310 scf/thousand m ³	
Conversion Factor	0.0011023 short tons/kg	
Conversion Factor	0.9072 metric tons/short ton	

Emissions = 38,404 short tons of CO₂e per year =

$$12,406 \text{ thousand m}^3 * 35,310 \text{ scf/thousand m}^3 * 0.05 \text{ kg CO}_2/\text{scf} * 0.0011023 \text{ short tons/kg} +$$

$$1,432 \text{ metric tons coal} * \frac{\text{short ton}}{0.9072 \text{ metric tons}} * \frac{2,098.89 \text{ kg CO}_2}{\text{short ton coal}} * \frac{0.0011023 \text{ short tons}}{\text{kg}} +$$

$$21,873 \text{ metric tons limestone} * \frac{\text{short ton}}{0.9072 \text{ metric tons}} * \frac{0.44 \text{ CO}_2}{\text{CaCO}_3}$$



Joshi Technologies / Parko Services

2009 Emissions Estimate

Joshi Technologies / Parko's 2009 project emissions estimate of **30,398 short tons of CO₂e** 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 CO₂e 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 Emissions Estimate

Joshi Technologies / Parko's 2010 project emissions estimate of **57,826 short tons of CO₂e** was calculated using the following information:

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

Emissions = 57,826 short tons of CO₂e per year =

$$4,010 \text{ short tons CO}_2 + 9,789 \text{ short tons CO}_2 + 25,927 \text{ short tons CO}_2 + 18,100 \text{ short tons CO}_2$$

2011 Emissions Estimate

Joshi Technologies / Parko's 2011 project emissions estimate of **43,564 short tons of CO₂e** was calculated using the following information:

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

Emissions = 43,564 short tons of CO₂e per year =

$$4,918 \text{ short tons CO}_2 + 11,169 \text{ short tons CO}_2 + 22,611 \text{ short tons CO}_2 + 4,866 \text{ short tons CO}_2$$



2012 Emissions Estimate

Joshi Technologies / Parko's 2012 project emissions estimate of **52,894 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Natural Gas Combustion in Dehydration Process	203 mmscf	Project Sponsor
Natural Gas Combustion in Power Generation	124 mmscf	Project Sponsor
Natural Gas High Heat Value	1,028 MMBtu/mmscf	TCR 2013
Natural Gas Emission Factor	53.02 kg CO ₂ /MMBtu	TCR 2013
Natural Gas Flared	468*10 ⁶ scf	Project Sponsor
Natural Gas Flared Emission Factor	2*10 ⁻⁶ Gg CO ₂ /m ³	API 2009, Table 4-11
Diesel Combustion in Drilling Rigs	225,000 gal	Project Sponsor
Diesel Combustion in Workover Rigs	103,680 gal	Project Sponsor
Diesel Combustion in Vehicle Fleet	29,646 gal	Project Sponsor
Diesel Emission Factor	10.21 kg CO ₂ /gal	TCR 2013
Conversion Factor	0.0283 m ³ /scf	
Conversion Factor	1,102 short ton/Gg	
Conversion Factor	0.001102 short ton/kg	

Emissions = 52,894 short tons of CO₂e per year =

$$(203 + 124 \text{ mmscf}) * 1,028 \text{ MMBtu/mmscf} * 53.02 \text{ kg CO}_2/\text{MMBtu} * 0.001102 \text{ short ton/kg} +$$

$$468 * 10^6 \text{ scf} * 0.0283 \text{ m}^3/\text{scf} * 2 * 10^{-6} \text{ Gg CO}_2/\text{m}^3 * 1,102 \text{ short ton/Gg} +$$

$$(225,000 + 103,680 + 29,646 \text{ gal}) * 10.21 \text{ kg CO}_2/\text{gal} * 0.001102 \text{ short ton/kg}$$

2013 Emissions Estimate

Joshi Technologies / Parko's 2013 project emissions estimate of **73,685 short tons of CO₂e** was calculated using the following information:

Data	Value	Source
Natural Gas Combustion in Dehydration Process	368 mmscf	Project Sponsor
Natural Gas Combustion in Power Generation	137 mmscf	Project Sponsor
Natural Gas High Heat Value	1,004 MMBtu/mmscf	Project Sponsor
Natural Gas Emission Factor	52.91 kg CO ₂ /MMBtu	TCR 2014
Natural Gas Flared	645*10 ⁶ scf	Project Sponsor
Natural Gas Flared Emission Factor	2*10 ⁻⁶ Gg CO ₂ /m ³	API 2009, Table 4-11
Diesel Combustion in Drilling Rigs	265,159 gal	Project Sponsor
Diesel Combustion in Workover Rigs	55,325 gal	Project Sponsor
Diesel Combustion in Vehicle Fleet	21,629 gal	Project Sponsor
Diesel Emission Factor	10.21 kg CO ₂ /gal	TCR 2014
Conversion Factor	0.0283 m ³ /scf	
Conversion Factor	1,102 short ton/Gg	
Conversion Factor	0.0011023 short ton/kg	



Emissions = 73,685 short tons of CO₂e per year =

$(368 + 137 \text{ mmscf}) * 1,028 \text{ MMBtu/mmscf} * 52.91 \text{ kg CO}_2/\text{MMBtu} * 0.0011023 \text{ short ton/kg} +$

$645 * 10^6 \text{ scf} * 0.0283 \text{ m}^3/\text{scf} * 2 * 10^{-6} \text{ Gg CO}_2/\text{m}^3 * 1,102 \text{ short ton/Gg} +$

$(265,159 + 55,325 + 21,629 \text{ gal}) * 10.21 \text{ kg CO}_2/\text{gal} * 0.0011023 \text{ short ton/kg}$

Qalaa Holdings (formerly Citadel)

2012 Emissions Estimate

Citadel is a private equity firm that invests in multiple platforms. In 2012, the Glenview Investment Holdings platform had an estimated carbon footprint estimate of **46,609 short tons of CO₂e** that were calculated using the following information:

Data	Value	Source
Natural Gas Consumption	24 million m ³	Project Description
Conversion Factor	100,000 m ³ / million m ³	
Conversion Factor	35.31 scf/ m ³	
Natural Gas Emission Factor	0.05 kg CO ₂ / scf	TCR 2013
Conversion Factor	0.001 metric tons/ kg	
Conversion Factor	1.1 short tons/ metric ton	

Total emissions estimate = 46,609 short tons of CO₂e per year =

$(24 \text{ million m}^3 * 100,000 \text{ m}^3/\text{million m}^3 * 35.31 \text{ scf}/\text{m}^3 * 0.05 \text{ kg CO}_2/\text{scf} *$

$0.001 \text{ metric tons}/\text{kg} * 1.1 \text{ short tons}/\text{metric ton})$

2013 Emissions Estimate

In 2013, Citadel changed its name to Qalaa Holdings, a private equity firm that invests in multiple platforms. In 2013, three platforms contributed to Qalaa Holdings total emissions including Glenview Investment Holdings, United Company for Foundries, and ASEC Company for Mining. The 2013 emissions estimate of **57,035 short tons of CO₂e** were calculated using the following below.

Data	Value	Source
Natural Gas Consumption (Glenview Investment Holdings)	24 million m ³	Project Description
Natural Gas Consumption (other platforms)	5.307 million m ³	Project Sponsor
Conversion Factor	100,000 m ³ / million m ³	
Conversion Factor	35.31 scf/ m ³	
Natural Gas Emission Factor	0.05 kg CO ₂ / scf	TCR 2014
Conversion Factor	0.001 metric tons/ kg	
Conversion Factor	1.1 short tons/ metric ton	

Total emissions estimate = 57,035 short tons of CO₂e per year =

$[(24 \text{ million m}^3 + 5.307 \text{ million m}^3) * 100,000 \text{ m}^3 / \text{million m}^3 * 35.31 \text{ scf} / \text{m}^3 * 0.05 \text{ kg CO}_2 / \text{scf} * 0.001 \text{ metric tons} / \text{kg} * 1.1 \text{ short tons} / \text{metric ton}]$

APPENDIX D – COMMON CONVERSIONS

Listed below are common emission and conversions factors used in the development of emission estimates.

UNIT CONVERSION		
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
1,000,000	Btu per MMBtu	TCR 2008
0.001	metric tons per kg	TCR 2008
0.0011023	short tons per kg	TCR 2008
1,000,000	scf per Mcf	TCR 2008
0.02832	m3 per scf	TCR 2008
0.9072	metric tons per short ton	TCR 2008
0.000001	metric tons per g	TCR 2008
0.0000011023	short tons per g	TCR 2008
907.18	kg per short ton	TCR 2008
2.2046	lbs per kg	TCR 2008
2,204.62	lbs per metric tonne	TCR 2008
2,000	lbs per short ton	TCR 2008
42	gallons per barrel	TCR 2008

HEAT CONTENT		
Value	Unit of Measure	Source
43	TJ/Gg HFO Gross Calorific Value	National Physical Laboratory, 2015
44	TJ/Gg LFO Gross Calorific Value	National Physical Laboratory, 2015
5.796	MMBtu per barrel diesel (fuel oil #2)	TCR 2013
24.93	MMBtu per short ton coal (bituminous)	TCR 2013
17.25	MMBtu per short ton coal (sub-bituminous)	TCR 2013
5.796	MMBtu per barrel crude oil	TCR 2013
5.80	MMBtu per barrel diesel (fuel oil #2)	TCR 2014
5.80	MMBtu per barrel crude oil	TCR 2014
1,028	Btu per scf natural gas	TCR 2013
		TCR 2014

EMISSION FACTORS FOR ELECTRICITY GENERATION		
Value	Unit of Measure	Source
901	g CO ₂ per kWh generated using coal	IFC 2012
666	g CO ₂ per kWh generated using oil	IFC 2012
390	g CO ₂ per kWh generated using natural gas	IFC 2012

EMISSION FACTORS FOR FUEL COMBUSTION		
Value	Unit of Measure	Source
53.02	kg CO ₂ per MMBtu natural gas	TCR 2013
		TCR 2014
52.91	kg CO ₂ per MMBtu natural gas (Btu/scf 1,000-1,025)	TCR 2014
73.96	kg CO ₂ per MMBtu diesel (fuel oil #2)	TCR 2013
		TCR 2014
93.40	kg CO ₂ per MMBtu coal (bituminous)	TCR 2013
97.02	kg CO ₂ per MMBtu coal (sub-bituminous)	TCR 2013
74.49	kg CO ₂ per MMBtu crude oil	TCR 2013
0.05	kg CO ₂ per scf natural gas	TCR 2013
		TCR 2014
75.10	kg CO ₂ per MMBtu Residual Fuel Oil (#6)	TCR 2013
2098.89	kg CO ₂ per short ton coal (mixed industrial sector)	TCR 2013
		TCR 2014

EMISSION FACTORS FOR INDUSTRIAL PROCESSES		
Value	Unit of Measure	Source
0.44	Short tons CO ₂ per short ton limestone processed	IPCC 2006

APPENDIX E – ANNOTATED BIBLIOGRAPHY

Amnesty International 2013. "Amnesty International: News." *Israel/OPT: Gaza Power Crisis Has Compounded Blockade's Assault on Human Dignity*. 1 Dec. 2013. Accessed February 2015.
<<http://www.amnesty.org/en/news/israelopt-gaza-power-crisis-has-compounded-blockade-s-assault-human-dignity-2013-11-29>>.

API 2004 (American Petroleum Institute). *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.

API 2009 (American Petroleum Institute). *Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Gas Industry*. August 2009.

EIA 2008. 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 2013. 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.

EPA 1985. 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.

EPA 2008. 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 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 was calculated to be 3,439 lbs of CO₂ per MMscd.

GREET. The Greenhouse Gases, Regulated Emissions, and Energy Use In Transportation Model, GREET 1.8d.1, developed by Argonne National Laboratory, Argonne, IL, released August 26, 2010.

Herrington, E.F.G. "Calorific Values of Solid, Liquid and Gaseous Fuels 3.11.4." *National Physical Laboratory*. 1 Jan. 2015. Web. 1 Feb. 2015.

http://www.kayelaby.npl.co.uk/chemistry/3_11/3_11_4.htm.

IEA 2008a. 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 Piton Energy as each coal type has a different emissions factor and heat-content value.

IEA 2008b. 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.

IFC 2008. 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 tons of CO₂e 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.

IFC 2012. International Finance Corporation (IFC). *Guidance Note 3: Resource Efficiency and Pollution Prevention*. January 1, 2012.

IPCC 2006. 2006 IPCC Guidelines for National Greenhouse Gas Inventories, Prepared by the National Greenhouse Gas Inventories Programme, Eggleston H.S., Buendia L., Miwa K., Ngara T. and Tanabe K. (eds). Published: IGES, Japan.

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 Furril) 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.

OPIC 2007. Overseas Private Investment Corporation (OPIC). *2007 Greenhouse Gas Emissions Inventory Report*. March 2009.

< <http://www.opic.gov/doing-business-us/OPIC-policies/greenhouse-gas-accounting-reports>>

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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.

TAPSEIS. Trans-Alaska Pipeline System Environmental Impact Statement (TAPSEI). *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.

TCR 2008. The Climate Registry (TCR). *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).

TCR 2013. The Climate Registry (TCR). *2013 Climate Registry Default Emissions Factors*. January 2013. Accessed March 2014.

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