World Sustainability Fund

Nigeria Introduction 120M USD Investment for Climate and SDGs



Creating The World We Need, Together



WHY

- ▶ 1. We have to solve the climate problem within 25 years.
- ▶ 2. We like to solve humanitarian problem at the same time:
 - ▶ Poverty, hunger, health, sanitation, equality, peace, ...
- 3. Because we like to live in prosperity and pass this through to the next generations



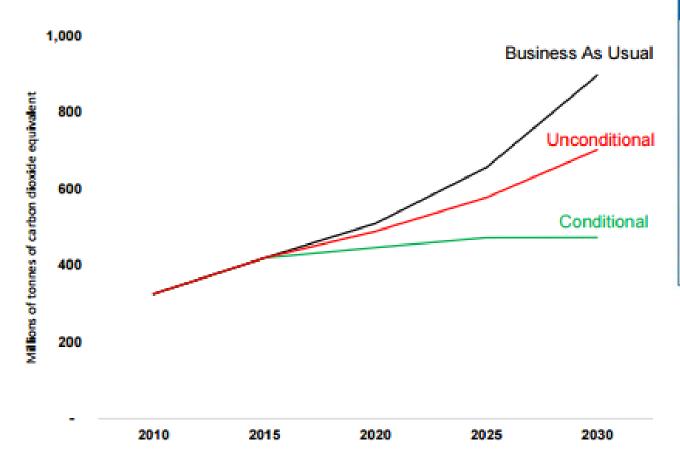
Create The World We Need Together

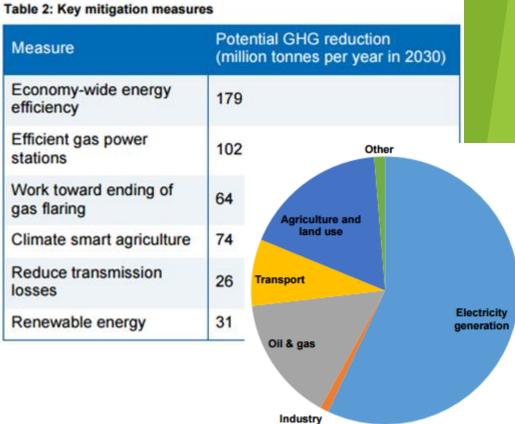
By transforming our lives, work, social structures & economics





Nigeria's climate objectives







Nigeria's production & exports

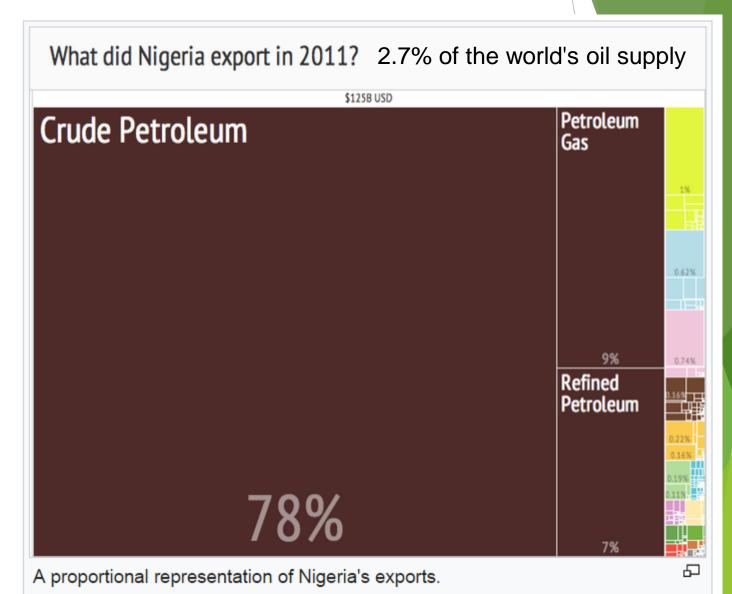
GDP in 2012/2015 was composed of the following sectors:

Agriculture 40%/18%

Services 30%/55%

Manufacturing 15%/16%

Oil 14%/ 8%



Nigeria Statistics & Sustainable Needs

Statistics:

- Population 180 million
- Area 923.768 km²
- Language English
- Human Dev. Index 0.527
- ▶ GDP \$ 2,758 per capita
- Poverty rate 62%
- C02eq Emission 0.6
- Paris Agreement: Signed

Emissions per US\$ (real) GDP	0.873 kg CO₂e (2015) [0.491 kg CO₂e (2030)]	M. C.
GDP per capita (US\$)	2,950 (2014) 3,964 (2030; real 2015 US\$)	C02 Emission 0.6
Estimated emissions per capita	Current: around 2 tonnes CO ₂ e 2030 BAU: around 3.4 tonnes CO ₂ e 2030 Conditional: around 2 tonnes CO ₂ e	
Global Warming Potentials used	IPCC Fourth Assessment Report	
Cost Estimate Data	National Cost = \$142b; National Benefits report "Low Carbon Development Opport	
Gases covered	CO ₂ , N ₂ O, CH ₄	
Emissions as % of global total	<1% (2010)	
Historical emissions (1850-2010)	2,564.02 million tonnes	

4P Model - Circular SDGs

impact model

P1. CO₂ Emission Reduction

P3. 10% ROI CDM Technology



P2. Healthy and Sound jobs
Direct SDG impact

P4. Development Progress
Sponsoring all 17 SDGs

- 1. Planet
- 2. People
- 3. Profit
- 4. Progress



CDMs creating values for SDGs



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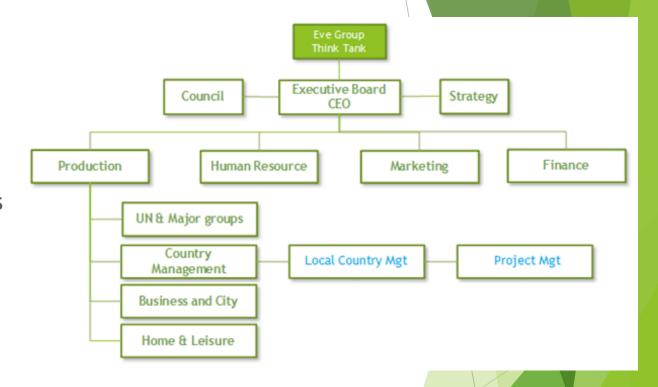
WSF What

WSF Board per June 2017

- ▶ Emile van Essen President
- Harold N. Dhalganjansing Treasury
- Nicolas Gros de Seta Marketing
- Rambha Kumari Countries Management
- <u>Daniëlle Simons</u> Legal, Humanitarian Projects

Welcome at WSF

Creating The World We Need Together





WSF - ORGANIZATION

World Sustainability Fund

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20 4 2020												
Operational Support												
Bureau	Facilities	Finance	HRM	Marketing								
CHRISTELLE +	EDU + DAVY	HAROLD +	SIBEL + LINDA	WENDIE +								
KARINA		ANOUK		KAROLINA.P?								
Emile's Office	Process Eng.	Fin. Admin.	Recuitment	Styling								
Council & Board	ICT + Info	Accr.& Funding	HR Admin.	PR - Branding								
C&T Scorecard	Offices	Oper. Finance	Job support	Website								
ECOIntention	Logistics	Asset Mgt	Education	News & MM								
Holacracy	Security	Risk & Legal	HR Events	Customer Serv.								
		Services										
Experts	Private	City&Bus	Country	UN&MG								
ZAHNAR +	COLLINS +?	JEROEN +	EMILE +	VIKTORIJA +								
RANA		MARLEEN?	LETICIA	?								
Fund for Funds	Culture	Resarch	Global C. Mgt.	UNFCCC								
DRiskR	Footprint	Markets	Countries	WBG, GEF								
Int Rescue	Education	Program	S1. C. Office	UNDP, UNEP								
CDM & SDG	Program	Projects	S2. C. Projects	UNGC NL								
Consultancy	Projects	Partners	S3. Multiplying	COM. CLUSTER								



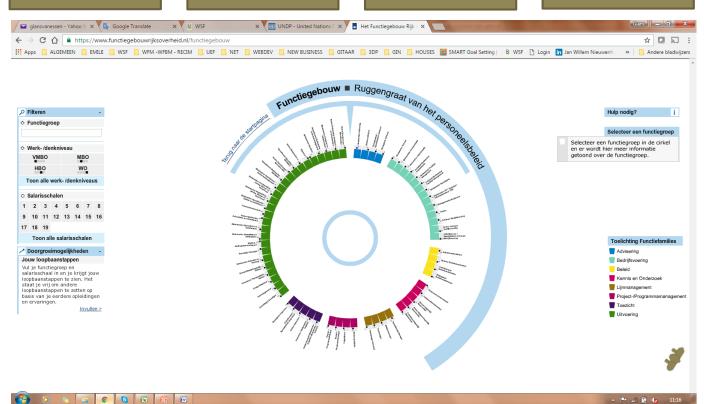
WSF - CDM & SDG ORGANIZATION

Service Levels

Personal, HOME & leisure

Labor, CITY & business Province,
COUNTRY &
region

Federation, WORLD & groups



Council, Board & Support

Asset, VIGOR & promotion Vision,
MISSION &
support

- Embassy
- Consultancy
- Management
- Policy
- Knowledge & Research
- Line Management
- Program / Project Mgt
- Supervision
- Execution



Climate and Social Economic Solutions

- 1. The United Nations arranged technological green standards CDM
- ▶ 2. And asked every country to write a green and social plan INDC
- ▶ 3. Also they asked financial institutions to support GEF & CDP
- 4. Then they delivered a global Agenda 2015-2030 SDG
- ▶ 5. And asked everyone to support, so ...

WSF supports with massive capacity building

By connecting those points

For best practice samples

In every country within three years





WSF How

WSF Country Program Nigeria

	ESTIMATE INITIAL CDM PROJECT INVESTMENT	Investment Million USD, or more	MtCO2eq Reduction / 10M USD	MW production/ 10M USD	% Return on Direct and Investment indirect Labor
1	RENEWABLE ENERGY (WIND)	10	15	8	
2	RENEWABLE ENERGY (SOLAR)	10	3	2	
3	RENEWABLE ENERGY (HYDRO)	10	32	10	
4	RENEWABLE ENERGY (BIOMASS)	0	48	9	
5	ENERGY DISTRIBUTION	20			
6	ENERGY DEMAND, own generation	20	50	10	
7	MANUFACTURING INDUSTRIES	0			Consultancy based
8	CHEM. INDUSTRIES, cement	0	138		Consultancy based
9	TRANSPORT	10	45		•
10	MINING, coal bed/mine methane	0	292	11	Consultancy based
11	FUGITIVE EMISSIONS, ALSO SECTOR 11	0	214	5	Consultancy based
12	WASTE HANDLING, Landfill gas	10	121	5	
13	AFFORESTATION	10	48/yr		
14	REFORESTATION	10	48/yr		
15	AGRICULTURE	10	24/yr		
	TOTAL	120	436	70	

Sponsor Investment 1M USD initial, till 40% of 120M USD final.

1 ENERGY INDUSTRIES, RENEWABLE	2 ENERGY DISTRIBUTION	3 ENERGY DEMIAND	4 MANUFAC- TURING INDUSTRIES	5 CHEMICAL INDUSTRIES
6construc-	7 TRANSPORT	8 MINING, PRODUCTION	9 METAL PRODUCTION	10 FUGITIVE DEMISSIONS OIL & GAS
11 FUGITIVE EMISSIONS FROM CONSUMPTION	12 SOLVENT	13 WASTE HANDLING AND DISPOSAL	AFFORES- TATION & REFORES- TATION	15 AGRICUL- TURE

CDMs creating values for SDGs



































Consultancy Services

WSF Consultancy Services is a worldwide network extra-ordinary trained, skilled, and experienced consultants, with access to universal science and diplomacies.

Country, City, and Business level:

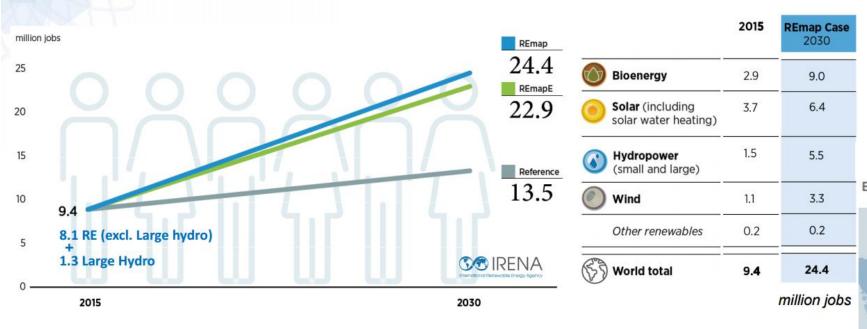
- INDC Intended Nationally Determined Contributions
 - CDM Clean Development Mechanism
 - SDG Sustainable Development Goals & Agenda
 - CSR City, Rural, Corporate & Individual Social Responsibility
- ► ICT4S Information & Communication Tech. for Sustainability CFO Carbon Footprint Offset





Renewable energy will create more jobs

The renewable energy sector could support up to 24 million jobs in 2030



Source: IRENA (2016), Renewable Energy Benefits: Measuring The Economics.

http://www.unevoc.unesco.org/wysd/ppt/WYSD16-Greening-IRENA.pdf







Rest of EU

Germany France

> North Africa

South Africa

Rest of Africa

Brazil

918



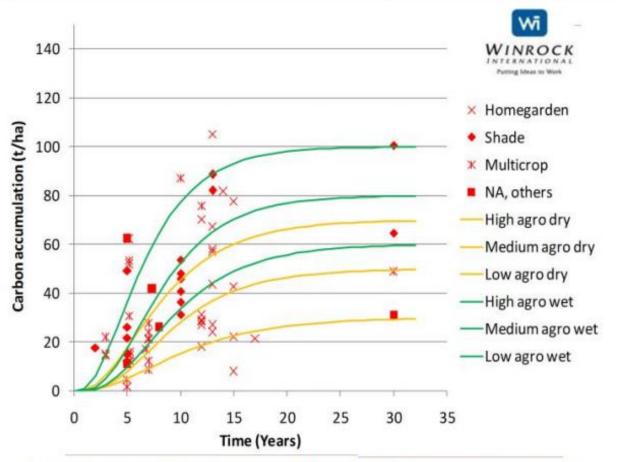
China





Agroforestry





This shows the data points of 200 research results



WSF Country Manager - Green Ambassador



Elijah Akwataghibe

Director, Business Development & IT

Nigeria | Oil & Energy

Projects

World Sustainability Fund, Insight Oil & Gas Consultants Limited Current Previous Shell Petroleum Development Company (SPDC) Ltd, Cranfield

University School of Management

Finance

Education Cranfield University - Cranfield School of Management

500+ Send a message Endorse connections Governance Management









World Sustainability Fund







NIGERIA BROCHURE



Country Sustainable Development Program Management Brochure



Nigeria Country Sustainable Development Program Manager Mr. Elljah Akwatagbibe elljah@worldsustainabilitiyfund.nl, +31 847 417 172, 8kype elljah.akwataghibe2

W8F address: Laan van Nieuw Oost-Indië 252, 2593 CD, Den Haag, The Netherlands,





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Difference and an inter-instruction (in 180 III, but you, be between

World Sustainability Fund







Solutions

WSF Nigeria Team



Elijah Akwataghibe

Director, Business Development & IT

Nigeria | Oil & Energ

Current World Sustainability Fund, Insight Oil & Gas Consultants Limited
Previous Shell Petroleum Development Company (SPDC) Ltd, Cranfield
University School of Management

Send a message

Endorse



Board

- ▶ 1. Elijah Akwataghibe President, Country Manager, Green Ambassador, SDG
- ▶ 2. David Okwor / Eric ... ? Secretary, HR, Promotion, Mission
- > 3. Adebola Adewumi ? Treasurer, Assets, Support, Vision
- ▶ 4. John Onwuteaka ? CDM Projects Leader, WSF Country & Region Delegate
- ▶ 5. Emile van Essen SDG Leader, WSF HQ Delegate, WSF Founder
- Donald Financial
- Dominic HRM
- Vivian Ori Legal,
- Iboro Private investors
- David Project management
- Babasola SDG



WSF Nigeria Projects Consortium

- Government
- Management (WSF Team)
- Technology Owners
- Sponsors-Investors
- Sample Project Owners
- Project Locations Owners
- Local Project Staff

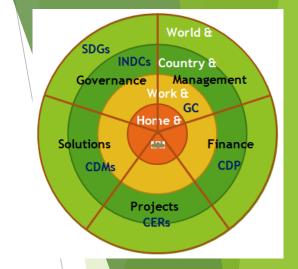
- Commitment Letter, Start support
- Managing the capacity building, mgt
- Delivering science, technology, support
- Sponsor-Invest first 1M USD and up to 40%
- Experience, staff, education, logistics
- Location, local gov/soc/bus. network
- Mgt, Production, Sales, Education, ...

Suppliers, Logistics, Production support

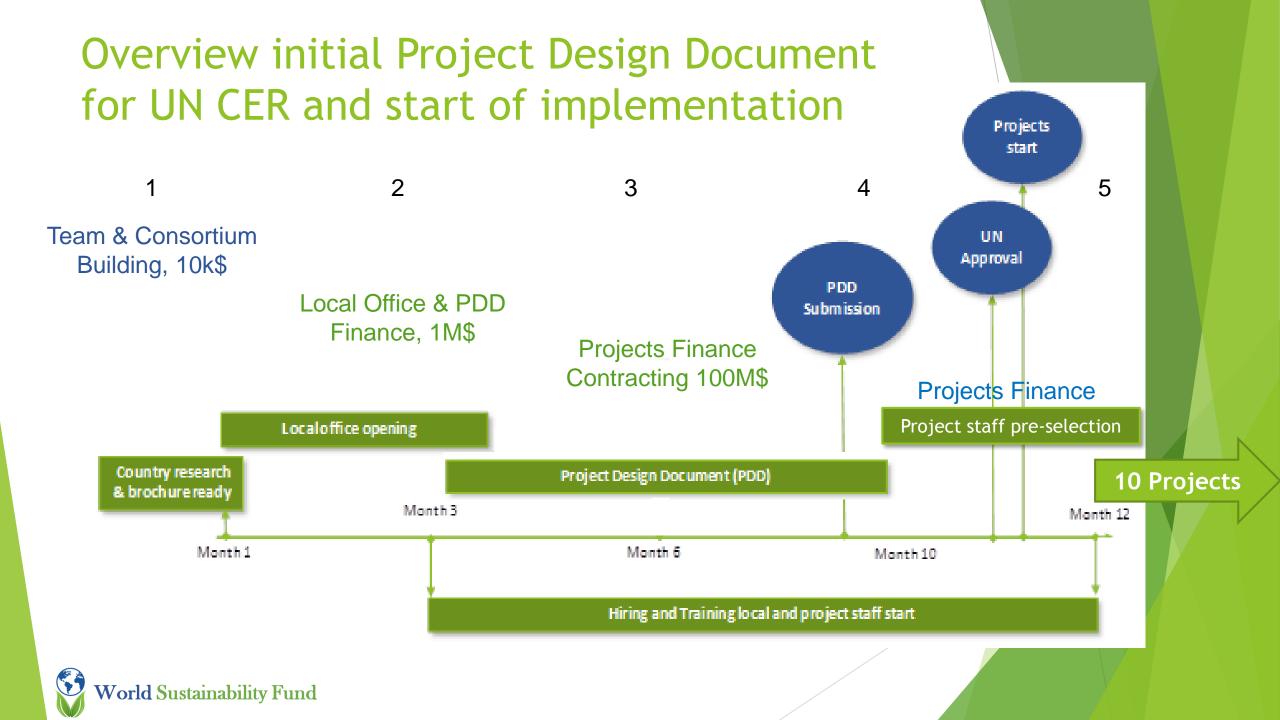
▶ Product Sales, Logistics, After-Sales support

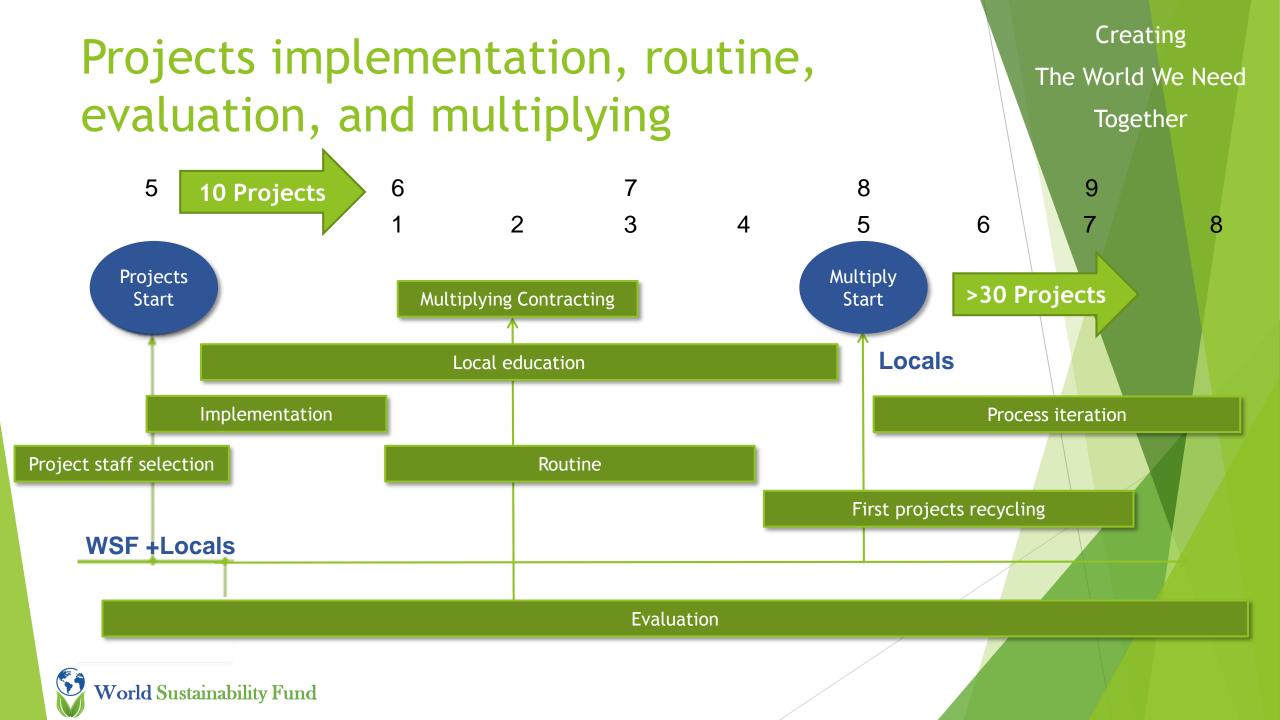
Sources:

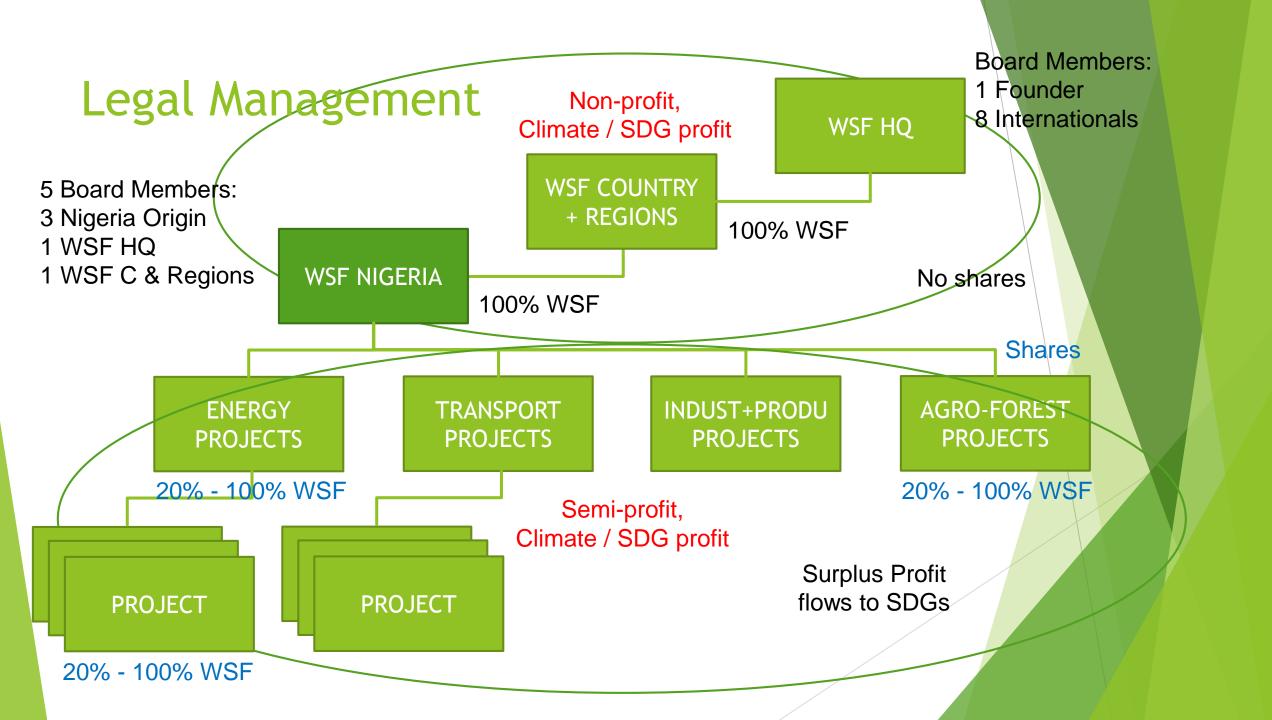
- Gov., Uni., NGOs, Multimedia
- Own network relations
- UNDP, UNEP, UNGC, UNFCCC, CDM Pipeline, ...
- LinkedIn (over 600 CDM Nigeria links)











Sponsor-Investment Participation (SIP) offer on Country Program or Project level

Up to 80% of Shares for SIP

20% of shares for SIP 1

20% of shares for SIP 2

20% of shares for SIP 3

20% of shares for SIP 4

20% of shares for WSF

Investing up to 40% of Funds only

Pre-Dev. WSF

10% \$ SIP 1

10% \$ SIP 2 10% \$ SIP 3

10% \$ SIP 4

60% to 100% \$, U.N. related loan institutions

Initial investment 1% only

Pre-Dev. Funds

1% PDD Funds

100% of Funds

Payback 100% and interest up to 10%, Surplus to SDGs



GEF - Process for Funding, see .ppt

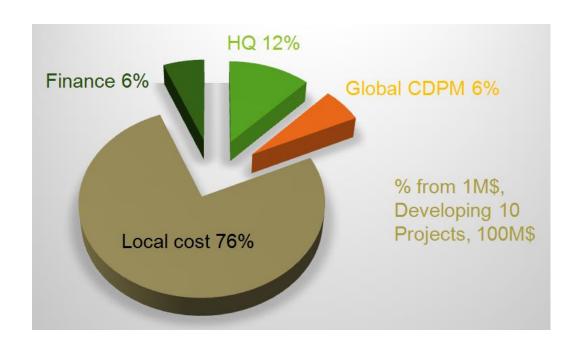
GEF WHAT: Program, Enabling Activity, Projects (Full-zised >\$2M, Medium-zised <\$2M)

GEF HOW: GEF WHY: Environmental Development

- 1. We Check 2. We inform OFP 3. OFP decides 4. OFP fill template & send to GEF
 - 1. Funding Check: Eligiblity Check (Country GEF or WB ratification, Country Needs (INDC), GEF area (CDM sectors), Only for the agreed incremental costs, must involve the public in project design and implementation)- Public_Involvement_Policy-2012.pdf.
 - 2. We inform OFP
 - 3. The Operational Focal Point (OFP) decides which GEF Partner Agencies would be best suited to support WSF (the "organization which develop and implement the project idea").
 - 4. OFP will fill the Template Form which is both appointing WSF as well as the source of funds and the GEF Agencies <u>templates</u>, <u>Endorsement Template</u>.

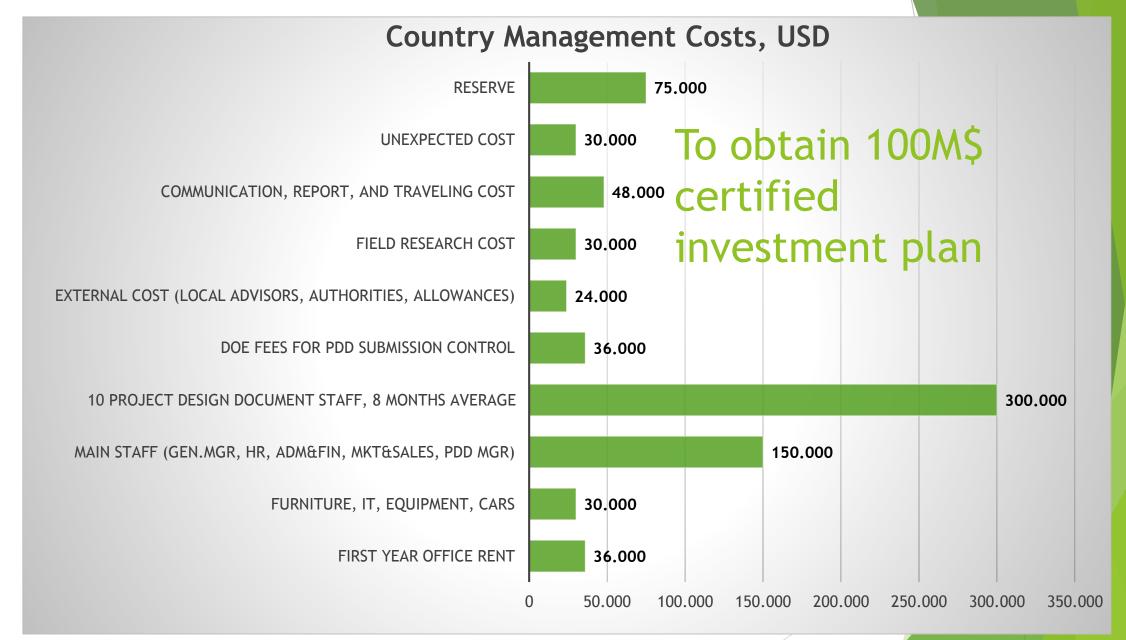


NIGERIA PDD Cost 1M\$ for 100M\$ investment



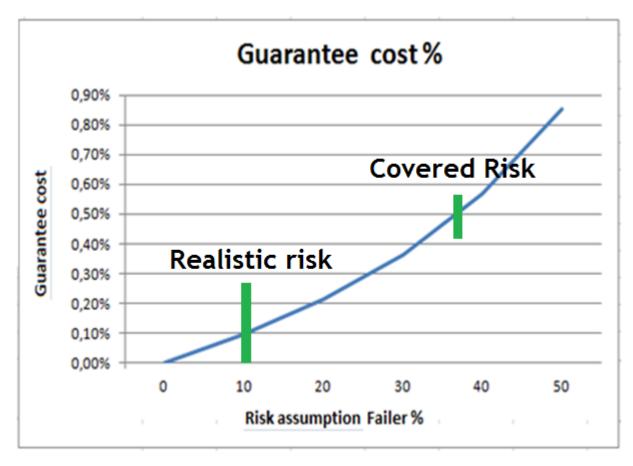
BREAKDOWN OF FIRST YEAR COST CDPM - COUNTRY OFFICE	GLOBAL AVER	AGE PRISING
Based on Countries open and financed.		
Overall Costs, estimation		1.000.000
Head Quarter	120.000	
Global Country Management	60.000	
Country Management	759.000	
Interest and cost on sponsorship loan	60.000	
Head Quarter		120.000
Cost of CDPM and Organization development	6.000	
Country Toolkit, Brochure, and First finance	30.000	
First year Org. support (Mgt, Legal, Fin, IT, Mkg,)	18.000	
First year HQ Country Manager support	12.000	
First year support CDM technology specialists	30.000	
First year traveling costs	12.000	
First year reserves	12.000	
Global Country Management		60.000
Staff, Monitoring, Report, Support, facility mgt.	24.000	
UNFCCC, DOE, UNDP & global partnership mgt.	18.000	
Region mgr contibution and traveling	12.000	
First year reserves	6.000	







Financial risk - Initial investment 1M\$



Coverage by project investment

Cost of init	ial cost guaran				
Initial cost	al cost Project cost Risk assumption Guarantee cost		Guarantee		
М\$	B\$	Failer %	Cost, M\$	per M\$	cost %
200	23,5	0	-	23.500	0,00%
200	23,5	10	20	21.150	0,09%
200	23,5	20	40	18.800	0,21%
200	23,5	30	60	16.450	0,36%
200	23,5	40	80	14.100	0,57%
200	23,5	50	100	11.750	0,85%

WSF Internal Risk Guarantee + World Bank MIGA
Initial Risk + Project Risk



Sign the Sponsor-Investor Agreement Benefits

- > 3% ROI on initial investment
- ► First right of Co-investment up to 40% investment for 80% shares, up to 10% ROI
- World Bank MIGA risk guarantee 90% local risks
- Participation in WSF events
- Contribute to the biggest challenges of the era: saving humanity & climate
- Recognition of sponsor/investor within WSF both online and offline
- Opportunity to use the WSF logo for company climate and social involvement
- ► Advice & support in promoting sustainability in company
- ▶ WSF responsible person to support to investor with information & updates

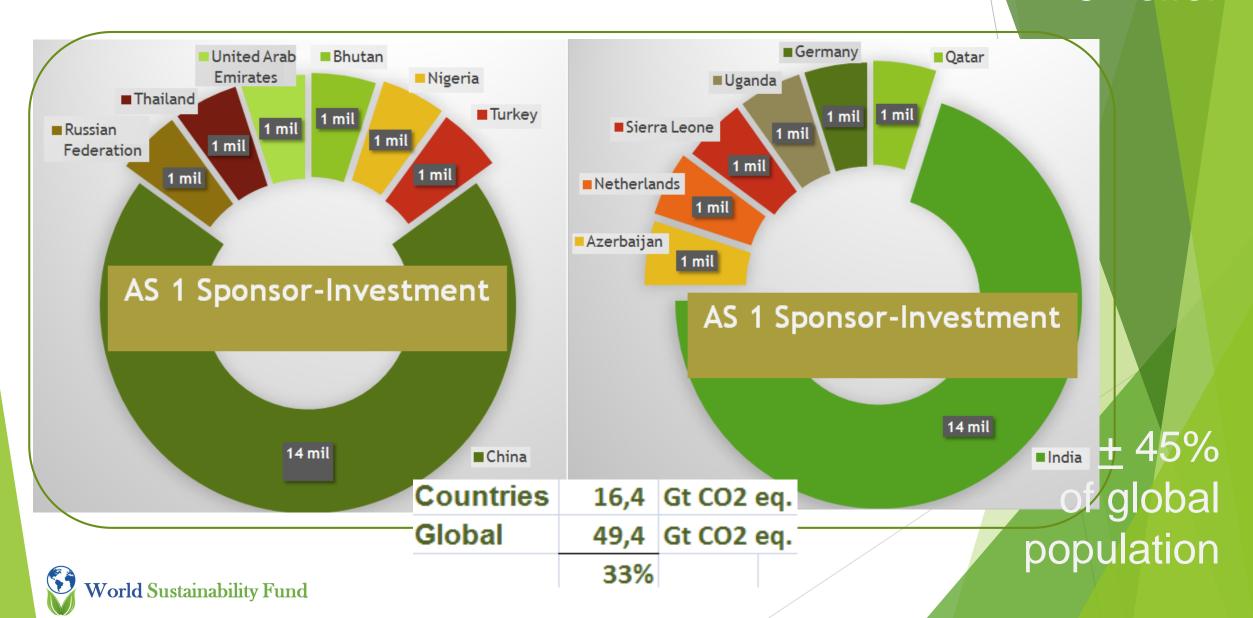


CER Buyers

Top 20 buyers	Projects
Vitol	310
EcoSecurities	305
EDF Trading	298
Tricorona Carbon Asset Management Sweden	251
Carbon Resource Management	215
Government of Sweden	197
RWE	178
CAMCO	148
Noble Carbon	118
Bunge Emissions Group	111
Climate Bridge	107
Mitsubishi	103
Arreon Carbon UK	101
Gazprom Marketing & Trading	98
AgCert	96
Mercuria Energy Trading	94
Kommunalkredit	93
Danish Ministry of Climate & Energy	87
Endesa	81
Deutsche Bank	76

40 M\$ SPONSOR-INVESTMENT

3rd offer



Next step WSF Heart Quarters

Policy branding

Education & Management

Global Capacity BuildingCDMs & SDGs

The Hague, NL







Laan van Nieuw-Oost-Indië 131 2593 BM Den Haag 8.853 m² · Units vanaf 493 m² COG Makelaars B.V.

WSF HQ + CM, in FTE	ON	0	CTOBER 201	6	MARCH 2017					
12 m2 netto/1	OFFICE	STAFF	PLACES	m2	STAFF	PLACES	m2			
COUNTRY MGT	40%	43	17	206	90	36	432			
Extra for big countries	40%	6	2	29	24	10	288			
SDG EXPERTS	60%	11	7	79	24	14	288			
CDM EXPERTS	60%	11	7	79	24	14	288			
PROJECT	46%	71	33	394	162	75	1296			
FACILITIES + RECEPTION	100%	3	3	36	6	6	72			
MGT BUREAU	80%	5	4	48	8	6	77			
MARKETING & SALES	60%	4	2	29	6	4	43			
FINANCE & ADMIN	70%	4	3	34	6	4	50			
STRATEGY, ICT	70%	4	3	34	6	4	50			
HRM Recruitment	80%	7	6	67	6	5	58			
HRM Job support	90%	4	4	43	8	7	86			
HRM Job education	90%	5	5	54	9	8	97			
HRM Admin.	80%	4	3	38	9	7	86			
HRM Mgt	70%	4	3	34	5	4	42			
2 EDUCATION ROOMS	Flex wall	2 of 10x10m	17	200		17	200			
LUNCH ROOM		1,25 m2/1	7	84		14	169			
HQ GENERAL	79%	44	58	701	69	86	1031			
TOTAL	59%	115	91	1094	231	161	2327			



WSF - CDM & SDG ORGANIZATION

Service Levels

Personal, HOME & leisure Habitat, LABOR & business Province,
COUNTRY &
region

Federation, WORLD & groups

Basic Education, Development & Finance for Sustainability INDC & SDG governance dev. Consultancy & Support WSF CSDPM Brochure & 1M\$ start Manager/ Ambassador for Country Office & 10 CDM projects & program

Project Management 4P

SDG & more CDM support

Circular Province, Country & Region SDG in/output modeling Bronning Common Federation development

Webshop for sales of:

- Program concepts & Project drafts
- Training
- INDC & SDG governance dev. support
- WSF CSDPM Brochure autodev.

Council, Board & Support

Asset, VIGOR & promotion

Vision,
MISSION &
support

- Embassy
- Consultancy
- Management
- Policy
- Knowledge & Research
- Line Management
- Program / Project Mgt
- Supervision
- Execution



WSF Country Program Nigeria

	ESTIMATE INITIAL CDM PROJECT INVESTMENT	Investment Million USD, or more	MtCO2eq Reduction / 10M USD	MW production/ 10M USD	% Return on Direct an Investment indirect Laborates	ct
1	RENEABLE ENERGY (WIND)	10	15	8		
2	RENEABLE ENERGY (SOLAR)	10	3	2		
3	RENEABLE ENERGY (HYDRO)	10	32	10		
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5	ENERGY DISTRIBUTION	20				
6	ENERGY DEMAND, own generation	20	50	10		
7	MANUFACTURING INDUSTRIES	0			Consultancy based	١,
8	CHEM. INDUSTRIES, cement	0	138		Consultancy based	'
9	TRANSPORT	10	45		•	
10	MINING, coal bed/mine methane	0	292	11	Consultancy based	ł
11	FUGITIVE EMISSIONS, ALSO SECTOR 11	0	214	5	Consultancy based	k
12	WASTE HANDLING, Landfill gas	10	121	5		
13	AFFORESTATION	10	48/yr			
14	REFORESTATION	10	48/yr			
15	AGRICULTURE	10	24/yr			
	TOTAL	120	436	70		

Sponsor Investment 1M USD initial, till 40% of 120M USD final.



CDMs creating values for SDGs



































Program under U.N. protocol

WSF What

RENEWABLE ENERGY (WIND) 10M USD - 15MT CO2

Ref▼		Title	Host count ▼	Province / State	Type _₁	Sub-type	•	Methodology <u></u>	Credit sta	
9570	Bundled wind pow	ver project Cape Verde	Cape Verde	Santiago & S	s: Wind	Wind		ACM2	1-apr-13	1198
	···	d Energy project, Senegal	Senegal	Thiès	Wind	Wind		ACM2	1-sep-13	4637
	, , , , , , , , , , , , , , , , , , , ,									
	Issua dela Validator (mon	lay	lit buyer	~	PDD Cor	nsultant	•		nvest-ment US\$/tCO2	Invest-ment US\$/kW ▼
ΤÜ	V-Nord	28 Sweden (Government	of Sweden)	G	SS Consultoria S	ustentável		76,9	1140	3016,1
DI	1V	30 Ireland (ESBI)		E	SBI					
		, , ,								





RENEWABLE ENERGY (SOLAR) 10M USD - 3MT CO2

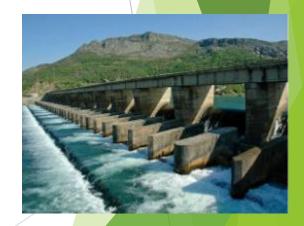
Ref ▼	Title ina Solar PV power plant project	▼ Host count ▼ Burkina Faso	Province / State •	Type 1 Sub-type Solar Solar Solar	*	Methodology ▼ ACM2	Credit sta ▼ 15-sep-15	Expected accumulated 2030 ktCO2e 132:
V:	Issuance delay 'alidator (month) 6 n.a.	Credit buyer	n.	1 DD Consultant	•		nvest-ment US\$/tCO2	Invest-ment US\$/kW





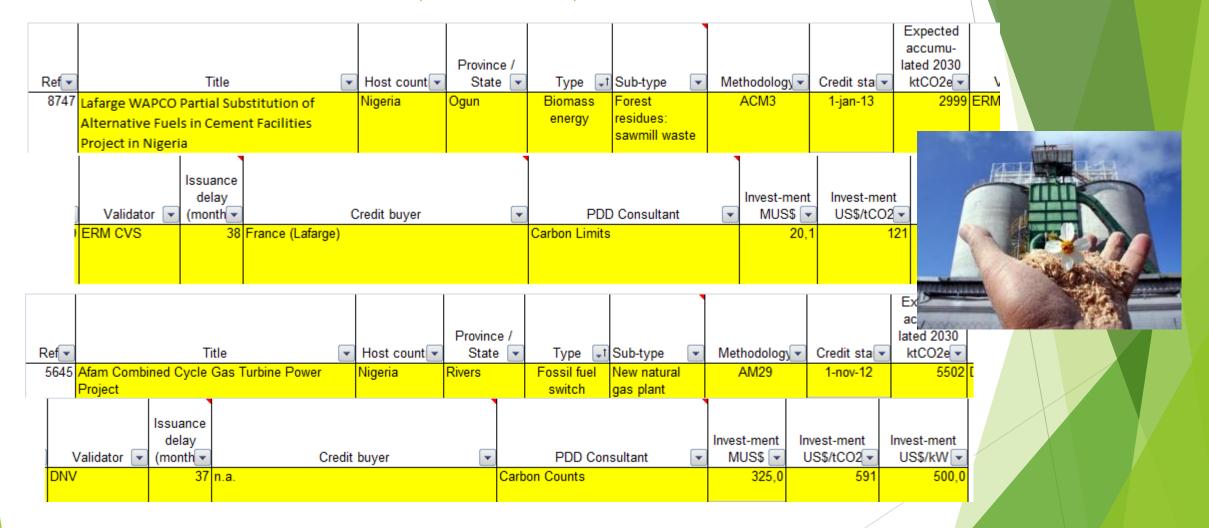
RENEWABLE ENERGY (HYDRO) 10M USD - 32MT CO2

Ref▼			itle 🔻	Host count Nigeria	Provinc State			Sub-type	•	Methodology	_	_
	7726 Kainji Hydropower Rehabilitation Project, Nigeria				Niger		Hydro	Existing da	m	ACM2	1-jan-13	8735
	, ingoing	Issuance delay		'				'		Invest-ment	Invest-ment	Invest-ment
\	/alidator 💌	(month ▼	buyer			PDD Con	sultant	•	MUS\$ ▼	US\$/tCO2▼	US\$/kW ▼	
AEN	OR		Sweden (IBRD+Governn Belgium (Electrabel), Ita	Triple	E systems			115,9	133	442,3		





RENEWABLE ENERGY (BIOMASS) OM USD - 48MT CO2





ENERGY DISTRIBUTION 20M USD

						Province	/							Expected accumu- lated 2030	
Ref	Title			•	Host count ▼	State	_	Type	_ †	Sub-type	M	ethodology 🔻	Credit sta ▼	ktCO2e ▼	V
9391	OML58 IPP Gas Fired Generation Project				Nigeria	Rivers		EE supply side		Single cycle to combined cycle		AM29	1-nov-15	2650	RINA
	lssuance delay Validator ▼ (month▼				Credit buyer			PDD Consultant				Invest-ment MUS\$ 💌			
	RINA 4 n.a.							n.a.				419,0	15	81 9	979,0





ENERGY DEMAND 20M USD - 50MT CO2

										1			Expected	
													accumu-	
					Province	/							lated 2030	
Ref		Title		✓ Host count	State	•	Туре	Ţ,	Sub-type	▼	∕lethodology 🔻	Credit sta ▼	ktCO2e ▼	V
2711	Efficient Fuel Wo	od Stoves t	for Nigeria	Nigeria	Many		EE		Stoves		AMS-II.G.	12-okt-09	313	TÜV-
				-			household	İs						
		`				1					1			
		Issuance												
		delay									Invest-ment	Invest-men	Invest-m	nent
	Validator ▼	(month 🕶		Credit buyer		•	F	DD	Consultant		▼ MUS\$ ▼	US\$/tCO2	▼ US\$/k	W[▼]
	TÜV-Nord	17	Germany (Atmosf	air+Lernen-Helfe	n-Leben)		Atmosfair				15,	6 4	99	





MANUFACTURING INDUSTRIES OM USD - ...MT CO2

Ref.	Title	Region	Sub-region	Host country
5578	Installation of natural gas based combined cooling heating	Asia & Pacific	Southern Asia	India
	and power (CCHP) systems in DLF Building 8 in Gurgaon,			
	India			
2220	MEN Energy Efficiency Improvement Project	Asia & Pacific	Southeast Asia	Indonesia

]	Invest-		Invest-
				ment	Invest-ment	ment
Province / State	Type	Sub-type	Methodology	MUS\$	US\$/tCO2	US\$/kW
Haryana	EE supply side	Cogeneration	AMS-II.H.	7,0	889	1253,0
West Java	EE supply side	Cogeneration	AMS-II.H.	14,3	466	1466,4



CHEM. INDUSTRIES, Cement 0M USD - 138MT CO2/10M USD

Ref.	Title	Host country	Туре	Sub-type	Methodology
7251	N2O reduction project at Fertial's nitric acid plant	Algeria	N2O	Nitric acid	AM34
7252	N2O reduction project at Fertial's nitric acid plant	Algeria	N2O	Nitric acid	AM34
490	Catalytic N2O destruction project in the tail gas of	Egypt	N2O	Nitric acid	AM28
7606	Reduction of N2O emissions from the new nitric a	Egypt	N2O	Nitric acid	ACM19
8668	N2O and NOX Abatement Project at KIMA Ferti	Egypt	N2O	Nitric acid	AM28
9032	N2O and NOX Abatement Project at Delta-ASM	Egypt	N2O	Nitric acid	AM28
10111	CO2 production from biomass in Mauritius for use	Mauritius	CO2 usage	CO2 replacement	AMS-III.J.
9620	Anaerobic digestion and heat generation at Sugar	Uganda	Methane avoidance	Waste water	AMS-III.H.+AMS-I.C.
10313	Production of biodiesel from non-food oil seeds	Uganda	Transport	Biodiesel for transport	ACM17
	1 1	Expected	Grid emission	Supported	Invest-

10313 Pro	oduction of bi	iodiesel from n	on-Iooc	1 oil seeds U	ganda	Transport	Biodiesel i	or transport	AC	M1/	1
	1	,			Expected	Grid emission	,	Supported	Invest-		Ī
	1st period	2nd period			accumu-	factor	Automatic	by CDM	ment	Invest-ment	
Ref.	ktCO2e/yr	ktCO2e/yr	yrs.	Credit start	lated 2030	tCO2e/MWh	additionality	Loan	MUS\$	US\$/tCO2	
7251	320		10	1-nov-12	3204				2,2	7	
7252	320		10	1-nov-12	3204				2,4	7	
490	1066	1274	7	15-sep-06	25297						
7606	252		7	1 54 14	4154						

1232	520		10	1 110 1 12	3201					2, 1		
490	1066	1274	7	15-sep-06	25297							
7606	252		7	1-jul-14	4154							
8668	121		10	1-jan-14	1207			Ref.		Title	:	
9032	190		7	1-jan-14	3232			9001	Partial Fuel	Switching to	Agricultural W	/astes
10111	11		10	9-mei-16	113		Foil		& Refuse I	Derived Fuel (RDF) at Katta	ameya
9620	47		7	6-nov-13	806	0,4370			cement plan	nt		
10313	40		10	17-okt-19	401		Foil			Expected	Expected	Exped

	Expected	Expected	Expected	Grid emission	Invest-	
	accumu-	accumu-	accumu-	factor	ment	Invest-ment
Credit start	lated 2012	lated 2020	lated 2030	tCO2e/MWh	MUS\$	US\$/tCO2
1-jul-13	0	243	323	0,5510	4,6	141

Host

country

Type EE industry





Sub-type

Cement

1st period

ktCO2e/yr

TRANSPORT 10M USD - 45MT CO2



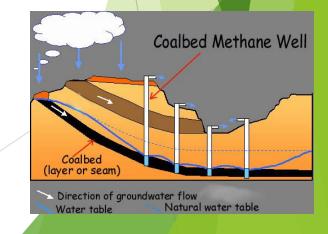
			•	
		Host	1st period	
Ref.	Title	country	1st period ktCO2e/yr	yrs.
7574	LRT System in Tunis	Tunisia	29	10
10313	Production of biodiesel from non-food oil seeds	Uganda	40	10

Expected		1	Supported	Invest-	
accumu-	First Start	Automatic	by CDM	ment	Invest-ment
lated 2030	comment	additionality	Loan	MUS\$	US\$/tCO2
292	26-mei-12			651,4	22313
401	31-Mar-16	Foik			



MINING, Coal bed/mine methane 10M USD - 292MT CO

							Expected	Grid emission	Invest-		Invest-
				1st period			accumu-	factor	ment	Invest-ment	ment
Ref.	Title	Host country	Sub-type	ktCO2e/yr	yrs.	Credit start	lated 2030	tCO2e/MWh	MUS\$	US\$/tCO2	US\$/kW
1026	5 GHG Emissions Reduction through Modjo CETP	Ethiopia	Waste water	143	10	1-jan-19	1426		40,00	281	
654	Nairobi River Basin Biogas Project	Kenya	Domestic manure	36	10	31-dec-12	359				
856	1 Energy efficiency improvement project through modification of heat exchanger network at	Kenya	Petrochemicals	6	7	8-apr-13	108				
	Kenya Petroleum Refineries Ltd										
1033	New gas fired power plant at Ressano Garcia	Mozambique	Coal to natural gas	542	10	1-jan-17	5416	0,9645	230,5	426	1316,2
962	Anaerobic digestion and heat generation at Sugar Corporation of Uganda Limited	Uganda	Waste water	47	7	6-nov-13	806	0,4370			
1015	Nakivubo Wastewater Treatment Plant Methane Capture and Utilisation Project	Uganda	Waste water	28	10	1-jan-17	276				
83	Egyptian Brick Factory GHG Reduction Project	Egypt	Oil to natural gas	430	10	1-mrt-12	4304				
422	Fuel Switching from Mazout to Natural Gas in Misr Fine Spinning & Weaving and Misr Beida	Egypt		45	10	1-feb-11	451		4,5	101	
	Dyers at Kafr El Dawar		Oil to natural gas								
951	Gas Flare Recovery at Suez Oil Processing Company, Egypt	Egypt	Oil and gas processing	186	10	1-jan-15	1862				
1017	Network Energy Optimization	Egypt	Electronics	10	10	23-nov-15	98				
543	Marrakesh Wastewater Treatment Plant (WWTP) with biogas recovery for cogeneration	Morocco	Waste water	62	10	1-jan-13	625	0,6820			
1013	RAMSA – Biogas recovery and electricity generation from M'zar Wastewater treatment plant,	Morocco	Waste water	44	4	1- j ul-18	531		5,2	118	3267,3
	Morocco										





FUGITIVE EMISSIONS OM USD - 214MT CO2/10M USD

			Province /					Expected accumu- lated 2030	
Ref▼	Title ▼	Host count ▼	State 💌	Type ↓↑	Sub-type 🔻	Methodology 🔻	Credit sta	ktCO2e ▼	Va
	Recovery of associated gas that would otherwise be flared at Kwale oil-gas processing	Nigeria	Delta	Fugitive	Oil field flaring reduction	AM9	9-nov-06	14969	DNV
	plant, Nigeria								
2029	Pan Ocean Gas Utilization Project	Nigeria	Delta	Fugitive	Oil field flaring reduction	AM9	21-okt-10	26267	DNV
	Recovery and marketing of gas that would	Nigeria	Delta	Fugitive	Oil field flaring	AM9	1-mei-11	2568	SGS
	otherwise be flared at the Asuokpu/Umutu Marginal Field, Nigeria				reduction				
	Recovery and Utilization of Associated Gas	Nigeria	Delta		Oil field flaring	AM9	1-jul-14	2881	RINA
	from the Obodugwa and neighbouring oil fields in Nigeria			Fugitive	reduction				
	Escravos Oil Field Associated Gas Recovery	Nigeria	Delta		Oil field flaring	AM9	1-apr-16	18650	BV C∈
	and Utilization Project			Fugitive	reduction				

Ref▼	Validator ▼	Issuance delay (month 🕶	Credit buyer ▼	PDD Consultant	Invest-ment	Invest-ment US\$/tCO2	Inve
	DNV	•	Italy (Eni)	Nigerian Agip Oil Company, Eni		004.1002	
2029	DNV	11	Norway (Carbon Limits)	Carbon Limits	301,9	115	
3740	SGS	59	Norway (Carbon Limits)	Carbon Limits	29,5	115	
9163	RINA	20	n.a.	Carbon Limits			
	BV Cert		United K. (Chevron)	Nigerian National Petroleum	1505,0	807	
				Corporation			

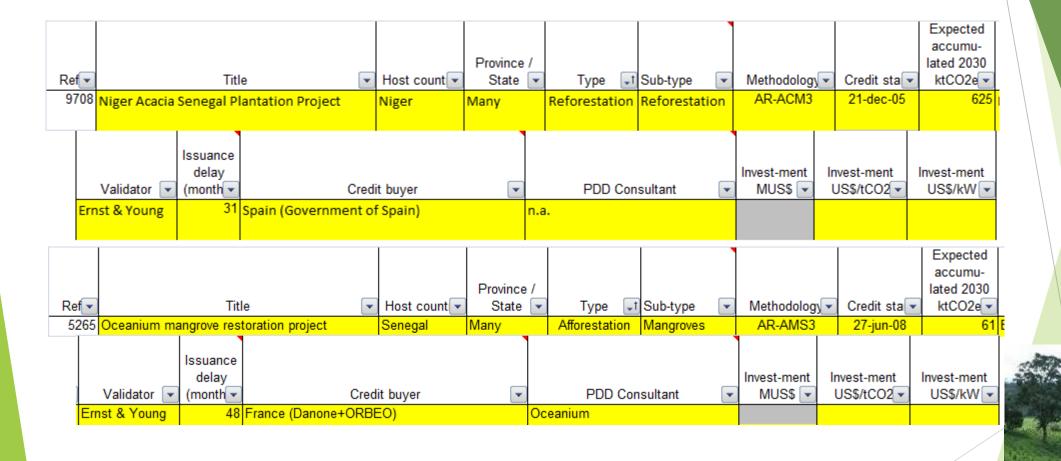
WASTE HANDLING, Landfill gas 10M USD - 121MT CO2

											\	
									•			Expected
												accumu-
					Provinc	ce /						lated 2030
Ref	Title		ïtle 🔽	Host count ▼	State	e 💌	Type ↓1	Sub-type		Methodology	▼ Credit sta	ktCO2e ▼
3841	841 Municipal Solid Waste (MSW) compositing		(MSW) compositing	Nigeria	Lagos		Landfill gas	Landfill		AM25	15-dec-10	2818
	facility in Ikorodu, Lagos State							composting	,			
6672	6672 LFG project in Nigeria			Nigeria	Lagos		Landfill gas	Landfill flari	ng	ACM1	1-jul-13	1299
		1		•	•				•			
	Issuance											
	delay									Invest-ment	Invest-ment	Invest-ment
\	Validator ▼ (month▼ Cre		Credi	t buyer	•		PDD Cor	sultant	•	MUS\$ ▼	US\$/tCO2 ▼	US\$/kW 💌
AEN	AENOR 63 Portugal (European C		oon Fund)		n.a.	n.a.						
LGAI	LGAI		France (Ably Carbon)	rbon)			Ably Carbon					





AF- & RE- FORESTATION 20M USD - 60MT CO2/ha/yr





AGRICULTURE 20M USD - 20MT CO2/ha/yr

Ref.	Title	Host country	Province / State	Туре	Sub-type	Methodology	Credit start	Validator
	Improving Rural Livelihoods Through Carbon Sequestration By Adopting Environment Friendly Technology based Agroforestry Practices		Orissa & Andhra Pradesh & Chhattisgarh	Reforestation	Agroforestry	AR-AM1	25-jun-04	TÜV-SÜD
	Agro-forestry Interventions in Koraput district of Orissa	India	Orissa	Reforestation	Agroforestry	AR-AMS4	28-jul-09	TÜV-Nord
	Mitigation of GHG: Rubber based agro- forestry system for sustainable development and poverty reduction in Pakkading, Bolikhamsay Province, Lao PDR.	Lao PDR	Bolikhamxai	Reforestation	Agroforestry	AR-ACM3	18-jun-15	TÜV-SÜD

Ref.	Forest size ha	Credit buyer	PDD Consultant	Invest-ment MUS\$	Invest-ment US\$/tCO2	Invest-ment US\$/kW
4531		Carbone), Italy (Government of Italy), Spain (Government of Spain), Luxembourg (Luxembourg Ministry of Sustainable	WB-CF			Sid-Sim at
8283		Development and Infrastructure), Japan n.a.	Patneswari Agri. Cooperative			
10128	969	n.a.	n.a.			



PROJECT OVERVIEW SINCE 2003

Number of projects and expected/issued CE		95		C	DM			8
Туре	numb	per	CERs/yr (0	000)	2020 CEF	ls (000)	CERs Issued (000)	
HFCs, PFCs, SF& & N2O reduction	144	1.7%	143721	12%	1109721	13%	870056	48%
Renewables	6045	71%	638606	54%	4714663	55%	546621	30%
CH4 reduction & Cement & Coal mine/bed	1288	15%	212768	18%	1453580	17%	227533	12.5%
Supply-side EE	490	6%	98344	8%	666150	8%	89956	4.9%
Fuel switch	134	1.6%	70722	6.0%	485241	5.7%	63733	3.5%
Demand-side EE	259	3.1%	8906	0.8%	59625	0.7%	5928	0.3%
Afforestation & Reforestation	71	0.8%	2515	0.2%	22287	0.3%	11328	0.6%
Transport	33	0.4%	4440	0.4%	34697	0.4%	2439	0.13%
Total	8464	100%	1180022	100%	8545964	100%	1817595	100%
Wind	2602	31%	238597	20%	1804551	21%	214242	12%
Hydro	2213	26%	322274	27%	2163257	25%	260293	14%
Biomass energy	738	9%	50150	4.2%	356164	4%	54610	3.0%
Methane avoidance	686	8%	28967	2.5%	194993	2.3%	30003	1.7%
Solar	439	5.2%	14215	1.2%	100424	1.2%	4839	0.27%
Landfill gas	405	5%	58076	5%	415216	5%	90683	5%
EE own generation	374	4%	49948	4%	334564	4%	81039	4.5%
Fossil fuel switch	134	1.6%	70722	6%	485241	6%	63733	3.5%
EE Industry	126	1.5%	4582	0%	28210	0.3%	4666	0.3%
Coal bed/mine methane	111	1.3%	72976	6%	540453	6.3%	57549	3.2%
N2O	105	1.2%	57010	5%	467587	5%	323265	18%
EE Supply side (power plants)	96	1.1%	42654	4%	282896	3.3%	7342	0.4%
EE Households	95	1.1%	3628	0.3%	27105	0.3%	1033	0.06%
Afforestation & Reforestation	71	0.8%	2515	0.2%	22287	0.3%	11328	0.6%
Fugitive	56	0.7%	48540	4.1%	284593	3.3%	40348	2.2%
EE Service	38	0.4%	696	0.06%	4310	0.05%	229	0.013%
Geothermal	35	0.4%	12401	1.1%	282896	3.3%	11034	0.6%
Transport	33	0.4%	4440	0.4%	34697	0.4%	2439	0.1%
Cement	25	0.3%	4109	0.3%	17575	0.2%	8940	0.5%
HFCs	22	0.3%	81319	7%	601230	7%	539942	30%
Energy distrib.	20	0.2%	5742	0.5%	48690	0.6%	1576	0.1%
PFCs and SF6	17	0.2%	5393	0.5%	40904	0.5%	6849	0.4%
Mixed renewables	17	0.20%	654	0.1%	4846	0.06%	40	0.002%
CO2 usage	4	0.05%	91	0.01%	676	0.01%	10	0.001%
Tidal	1	0.01%	315	0.03%	2525	0.03%	1563	0.1%
Agriculture	1	0.01%	8	0.001%	74	0.0009%		





This page is under development

SDGs to sponsor out of the 10+% ROI = 12M+ USD/yr

- SDG 1 poverty 62% → SHR, \$250pp balance, dLv, Layers of Sust,
- SDG 2 Hunger → National plan Food Forest
- SDG 3 Health → Local ICT: VIPcure self-help, Happiness Index
- SDG 4 Education → U.N. Youtube system
- ► SDG 5 Gender equality → HR 50 quality check & development plan
- ► SDG 6 Clean water and sanitation → Mapping Nat. Water & distribution plan
- SDG 7 Clean energy Climate change → CDM projects, tech. factories
- ▶ SDG 8 Decent work and economic growth \rightarrow C₀ SHR Nat. Villages plan, Infra, Governance
- SDG 9 Industry, innovation & infra → Defining 2050 Way of Life industry & Roll out

http://www.ng.undp.org/content/nigeria/en/home/post-2015/sdg-overview.html

http://www.vconnect.com/nigeria/list-of-ngos_c459







































SDGs to sponsor out of the 10+% ROI = 12M+ USD/yr

- SDG 10 Reduction Inequality \rightarrow Land politics to SHR, dLv, Limits to ownership
- SDG 11 Sust. Cities & Communities → Living Bronning, Waste reduction, Electric transport
- SDG 12 Resp. Production & Consumption \rightarrow Local & Nat. Circular Sustainability & Economy
- SDG 13 Climate Action \rightarrow SHR 31, Nat. parks, Most Polluting C_0 planning with legal Liability
- SDG 14 Life below water \rightarrow Ocean acidification, Marine and ecosystem pollution eradication
- SDG 15 Life on land \rightarrow Agriculture, Loss of natural habitats
- SDG 16 Peace, justice & strong institutions → Solving conflicts
- SDG 17 Partnerships for the Goals \rightarrow Finance, technology, CB















13 CLIMATE ACTION



14 LIFE BELOW WATER

















Top SDG NGOs in Nigeria

Under develoment

http://www.nigeriagalleria.com/Agencies_and_Organizations/NGOs.html



UNFCCC EB, DOE, UNDP, UNEP, ...

- clean development mechanism (CDM)
- joint implementation (JI)
- ▶ and the new market mechanism (NMM) under development (2-5 May 2017)









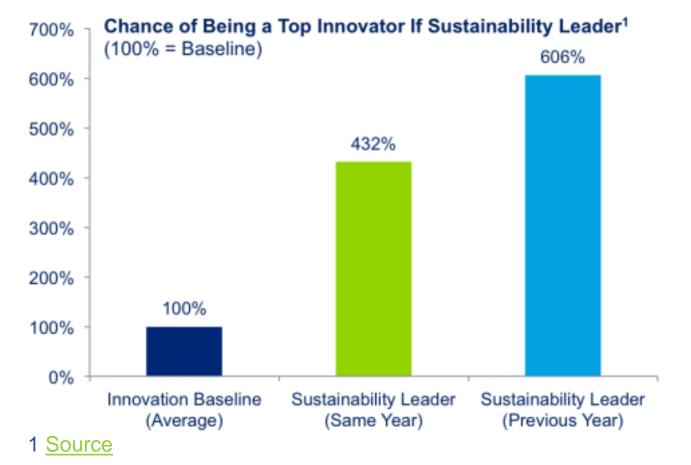
Top 20 Highest Paying Nigerian Companies

- 1.) Dangote Company (FMCG)
- 2.) NNPC (Oil and Gas)
- 3.) Shell (Oil and Gas)
- 4.) Chevron (Oil and Gas)
- 5.) Nestle Nigeria Plc (FMCG)
- 6.) Mobil (Oil & Gas)
- 7.) MTN (Telecoms)
- 8.) Nigeria Breweries (FMCG)
- 9.) Coca-Cala (Coke Soft Drink Company)
- 10.) Guiness Nigeria Plc (Diageo)

- 11.) Total (Oil and Gas)
- 12.) Access Bank (Banking)
- 13.) Nigerian Civil Service (Government)
- 14.) Oando Nigeria Plc (Oil & Gas)
- 15.) Arik Air (Aviation)
- 16.) NLNG (Oil & Gas)
- 17.) Schlumbeger
- 18.) Diamond (Banking)
- 19.) British American Tobacco (BAT)
- 20.) Emirate Airlines (Aviation)



We have a leading vision ...



Take action:



WSF, Laan van NOI 252, 2593 CD, Den Haag



Emile van Essen, 0658 958 108



emile@worldsustainabilityfund.nl



sbfemile



http://worldsustainabilityfund.nl

Welcome at WSF

Creating The World We Need Together



Aliko Dangote

Naissance 10 avril 1957 (60 ans)

Kano (Nigeria)

Nationalité <u>Nigérian</u>

Profession Homme d'affaires, PDG de Dangote Group

Formation Étude de commerce (<u>Université al-Azhar</u> au <u>Caire</u>)

Ascendants

Mohammed Dangote (père)

Mariya Sanusi Dantata (mère)

- Africa's richest man, <u>Aliko Dangote</u> plans to invest \$500 million in establishing a sugar processing facility in Nasarawa State, Nigeria.
- ► The sugar plantation will occupy 60,000 hectares and will be completed in less than 30 months. When completed, it will produce 480,000 tonnes of sugar, which is about 27% of Nigeria's' consumption. Dangote estimates the project will cost about \$700 million.
- According to the FORBES list of world billionaires published today, Aliko Dangote is still Africa's richest man with a fortune estimated at \$12.2 billion.

