

Projects Profiles





Upstream Business Opportunities & Project Development Framework



Business Opportunities	Production Enhancement Opportunities	Blocks	2B	Туре	Producir Block	•	
Background	 ✓ Block 2B located in South Kordo ✓ Past exploration activities resulted ✓ Multi-target sands (9 layers) from ✓ Mainly moderate to light oil 18-40 ✓ Scale oil production started in June 	ed in 15 struc n Aradeiba M 0 (28-35) AP	lain (1400mkb) t I.		(1860mkb).		
Investment Opportunities	 Production enhancement. Higher returns at low investments IOR/EOR opportunity to step t	•		off etc.)	Unique Features		370km2 21,700 daily production Production facility with capacity up to 350,000 bbl/day. 180 producing wells Roads connected to Red sea. Low lifting cost
Investment Modes	Direct equityProduction sharing agreementPEC Model	S			Sponsor(s)		Ministry of Energy & Petroleum



Business Opportunities	Unexploited Producing Fields with Growing Potential	Blocks	2A&4	Туре	Producii Block			
Background	 ✓ Block 2A &4 located in the south ✓ Past exploration activities resulted ✓ Mainly moderate to light oil (20-2) ✓ Scale oil production started in 19 	ed in 21 stru 30) API.	ctures.					
Investment Opportunities	 Lower risk exploration to incre Production enhancement Power generation utilizing prod 		S		Unique Features	•	2A 1139km2 block4 16287 (larger than Belgium 20,000 daily production with 2.6B bbl oil in plan Variety of products (Oil, Gas, associated gas) 190 producing wells 85% unexplored area of the block. Production 4 satellite production facilities confidered confidered area of the block.	ce.
Investment Modes	Direct equityProduction sharing agreementPEC Model	S			Sponsor(s)		Ministry of Energy & Petroleum	



Business Opportunities	Attractive Exploration Play	Blocks	17	Турє	2)	oducing Block				
Background	 ✓ Block 17 located in the southwee ✓ Past exploration activities resulted ✓ Mainly moderate to light oil 17-4 ✓ Scale oil production started in D 	ed in 2 struct 0 API.	tures Abu Gabra			2016, 14 բ	oroducers/35 active	,		
Investment Opportunities	 Increase reserves through love Production enhancement Heavy oil production enhance 	·	ation		Uniq Featu		21,000 km2 3000 daily produ Production facilit 12 producing we 95% unexplored Roads connecte Low lifting cost	y with capacity lls area of the bl	y up to 15,000 bl	ol /day
Investment Modes	Direct equityProduction sharing agreemen	ts			Spons	or(s)	Mini	stry of Energ	y & Petroleum	



Business Opportunities	Green Field Development Opportunity	Blocks	25	Турє	Producir Block	_	
Background	Block 25 Rawat central region local Consists of series of sub-basins. T						northern extension of the Cretaceous Melut Basin. wellhead.
Investment Opportunities	 Increase reserves through low Field development. Past exploration activities results in the main reservoir intervals in and Galhak Sand) Mainly moderate to light oil (2) Scale oil production started in 	ulted in 19 st lentified are 6-32) API.	ructures. (Galhak, Lower N		Unique Features		Approximately 8000 Square Kilometers (175 km X 50 km) Production facility need to be established 90% unexplored area of the block Abundance of seismic stratigraphic features (pinch-outs, unconformities and turbidite deposits). Potential for stratigraphic discoveries Close to export pipeline and roads is connected to Red sea.
Investment Modes	Direct equityProduction sharing agreement	ts			Sponsor(s)		Ministry of Energy & Petroleum



Business Opportunities	Blue Nile Basin	Blocks	8	Туре	Free Bloo	ck				
Background	Block 8 located 200 km to the sout The Block area is 60,513 Sq. Km. Exploration started in 1980s by Ch			onas & Su	udapet.					
Investment Opportunities	 ALL Block 8 wells were drilled The Blue Nile Basin has a productivity Blue Nile basin has most of shaper gas readings and thinly interbed productivity Shale Gas Potential: More that rock extended through whole the state of the	ven Hydroca ale gas char edded siltsto reserve pot n 1000 m go	rbon system bas racteristics with has nes ential and enhan	sed on nigh ce	Unique Features	•	Nine (9) G&G St 11 wells drilled w 2Wells Discover Mixed oil/gas pro drilled and high Gas & Condensa	rudies Perform with a good HC ies (Tawakul-1 one source roc TOC values. ate reserves ha	shows. (10+1)	ne wells red.
Investment Modes	Direct equityProduction sharing agreement	S			Sponsor(s)		Mini	stry of Energy	y & Petroleum	



Business Opportunities	Red Sea Basin	Blocks	13,15,16,22 & 26	Туре	Free Bloc	k			
Background	 Lies in North East of Sudan,1 Covers 70,000 square Kilome 700 Kms coastline on the Re Proven petroleum system with Five promising exploration according to the square of sudan,1 	eters d Sea h sediment th	ickness exceeds	s10000 mete	ers.				
Investment Opportunities	 One of the last remaining for world Potential for sizable hydrocare. Sudan is offering five blocks. Block 15 has potential gas resort of condensate. Several instrategize the development development plan is based of each location (Bashaier are primary gas utilization option). 	bon discover for licensing: serves of 38 house studie of the disc n the drilling d Swakin).	ies in the pre-salidation in the pre-salidat	d 26 MMBBL out to es. The ; two at	Unique Features	 10451 km of Graden in the second in the secon	ered by 19503 avity. ed resulting in port, three se very close to the eology & Salt T g is a key t	n two gas and aports, two manalectonics of unlocking the	d condensate rine terminals
Investment Modes	Direct equityProduction sharing agreemer	ts			ponsor(s) & Key takeholders	Mini	stry of Energy	& Petroleum	



Business Opportunities	Khartoum Basin	Blocks	9	Туре	Free Bloo	ck				
Background	 Located in the central part of S The basin formed during two r The stratigraphic succession r Seven wells have been drilled Potential source rocks in the A 	rifting cycles records up to in the peric	and subdivided 5500 m of Late od from 1987 to 2	into three Jurassic				6, and Gezira	•	
Investment Opportunities	 Block9 in the central part of Statem 141,939.55km2 Proven hydrocarbon system (**) Many untested structures 				Unique Features		Data availability ✓ The Block is of 2 and 2 an	D seismic dat	a of good region	al grid.
Investment Modes	Direct equityProduction sharing agreement	S			Sponsor(s) & Key Stakeholders		Mini	stry of Energy	/ & Petroleum	



Project Name	Purchasing of Specialized Software License	Cost (USD)	3.75 M USD	Тур	e* F	R & D	Target Start Date	2021	Target End Date	2026
Project Description	Acquiring advanced petroleum E &P applupgrade the Petroleum Laboratories, Ressensitive and crucial studies and research	searches ar	_	•	<u> </u>	•		• •		
Impact	 Adoption of the latest efficient and confield to produce accurate exploration development plans. Maximization of local content. Improvement of national capacity in industry. 	on studies	and reliable	field	Unique Features	minir resul facilit	project helps op nize environmer ting from excess ties. oroject contribut en oil and gas re	ntal foot print a sive drilling ar es to the enha	and capital losse nd associated su	es ırface
Financing	Donation/ Self-fir	nancing			Sponsor(s)		Ministry	of Energy & I	Petroleum	



Natural Gas Monetization Opportunities





Project Name	Neem NG Monetization Project	Cost (USD) 50 M USD				Gas	Target Start Date	2022	Target End Date	2023
Project Description	For the last two decades the flared gas from Condensate for local market beside Fuel gas	_		_	_					
Impact	 To benefit from the flared gas. Address LPG local supply shortage. To work as a pilot for more LPG production 	on products			ique itures	■ The op	e gas as clean sou portunity for env city supply for su	ironmental fu	nds to support th	e project
Financing	- JV - PPP			Spo	nsor(s)		Ministry	of Energy & F	Petroleum	



Project Name	Alfula Power Plant	Cost (USD) 250 M USD	Type*	Ga	as	Target Start Date	2022	Target End Date	2024
Project Description	Al-Fula Town Power plant project is set to ut plant that will be connected to the National Moga to treat and process the commingled g	Electric Grid. Ministry of E	nergy is planni	ng to cons	truct a 10	00 MMSCFD Gas g	gathering & Pi	rocessing Plant lo	ocated at
Impact	 Bridging the electricity gap in SUDAN. Reduce the regional inequalities in Sudan Improve the environmental condition throcharcoal to electricity as safer source of electricity. Reduce the LPG imports. 	ough shifting from wood d	ınd	aique atures	The lo Kordof	ing of flared gas ocation near to an. oncentrated nea	underdeveld	ped areas of	
Financing	- JV		Spo	nsor(s)		Ministry	of Energy & I	Petroleum	



Downstream Projects



Project Name	Port Sudan Refinery Project	Cost (USD)	6 BUSD	Type*	Down	stream	Target Start Date	2022	Target End Date	2026
Project Description	Building a new refinery with total capa The refinery shall process the imported	•	•	•	•	•	•	•		
Impact	 Cover the deficit of Sudan consum Export to neighboring countries and African depth. Lay a concrete base for Petrochem Economical Utilization of Existing F 	d the whole voicals industr	world especially		Jnique eatures	ReformEaThExin	se of importing ady-made infrast e presence of re	ly overlooks to and exporting ructure in cru ady infrastruct I market insidentries.	o Red Sea coast g to the outside de & product terreture in the old rede Sudan & Pote	market with ninals.
Financing				Sp	onsor(s)			GOS		



Project Name	Sudan Depots Expansion Project	Cost (USD) 338.5 MUS	SD Type*	Downstrean	Target Start Date	2022	Target End Date	2024			
Project Description Building a new Seven depots in different region in Sudan to increase the storage capacity from 1 million m³ to 1.6 million m³ as follows: Elfashir: to serve transportation, agriculture and industrial sectors Eldein: to serve transportation, agriculture and industrial sectors Sennar: to serve transportation, agriculture and industrial sectors Omdurman: to serve transportation, agriculture and industrial sectors Karima: to serve transportation, agriculture and mining sectors Medani: to serve transportation, agriculture and industrial sectors Rabak: to serve transportation, agriculture and industrial sectors As well as construct one products pipeline Medani – Sennar – Rabak: to link the three depots and reduce the losses and risks associated with road tankers transportation											
Impact	 Achieve more coverage area of product available at demand are Reduce the risk associated with Establish reliable, more safety a Minimizing the transportation copreventing the risk related to the preventing the risk related. 	eas products shortage . nd cost effective petrolo ost and environmental	eum product.	Unique Features	Increase the prod sectors. Reducing the une Secure social stal	mployment r	ate	riculture			
Financing				Sponsor(s)		GOS	3				



Project Name	Port Sudan Depots, Products Pipeline & Anchorage Upgrading Project (USD)	60 MUSD	Type*	Dow	nstream	Target Start Date	2022	Target End Date	2024
Project Description									
Impact	 Transferring the increasing quantities imported of the it estimated to reach 4.9 million MT/Y in 2021 Secure supplying of petroleum products to the centra Helps to break the bottlenecks in Port Sudan due to timport quantities. Minimizing the transportation cost and environmenta preventing the risk related to the transportation Reduce fines resulting from slow unloading of ships. 	Il Sudan he increase i	n Uni q		which ca	lity of Gasoil pip an be upgraded s' locations redu	by increasing	g its throughput	capacity.
Financing			Spons	or(s)			GOS		



Project Name	Um Dabakir Refinery Project Cost (USD) 300	MUSD	Type*	Downstream	Target Start Date	20xx	Target End Date	20xx
Project Description								
Impact	 Extract light products out from Dar blend Secure Furnace supply for Um Dabakir power plant Process the crude of Block-25 which has no pipeline fo Supply the oil products to the neighboring countries 	r evacuatio	n. Uniqu Featur	LocaAvailanceSudaEcon	Capital Investme tion closeness to ability of local cru n production) omic growth will l et- same would b tries	major consulde supply pole	etential (including	g South
Financing	PBP: 5-8 years		Sponso	or(s)		GOS		



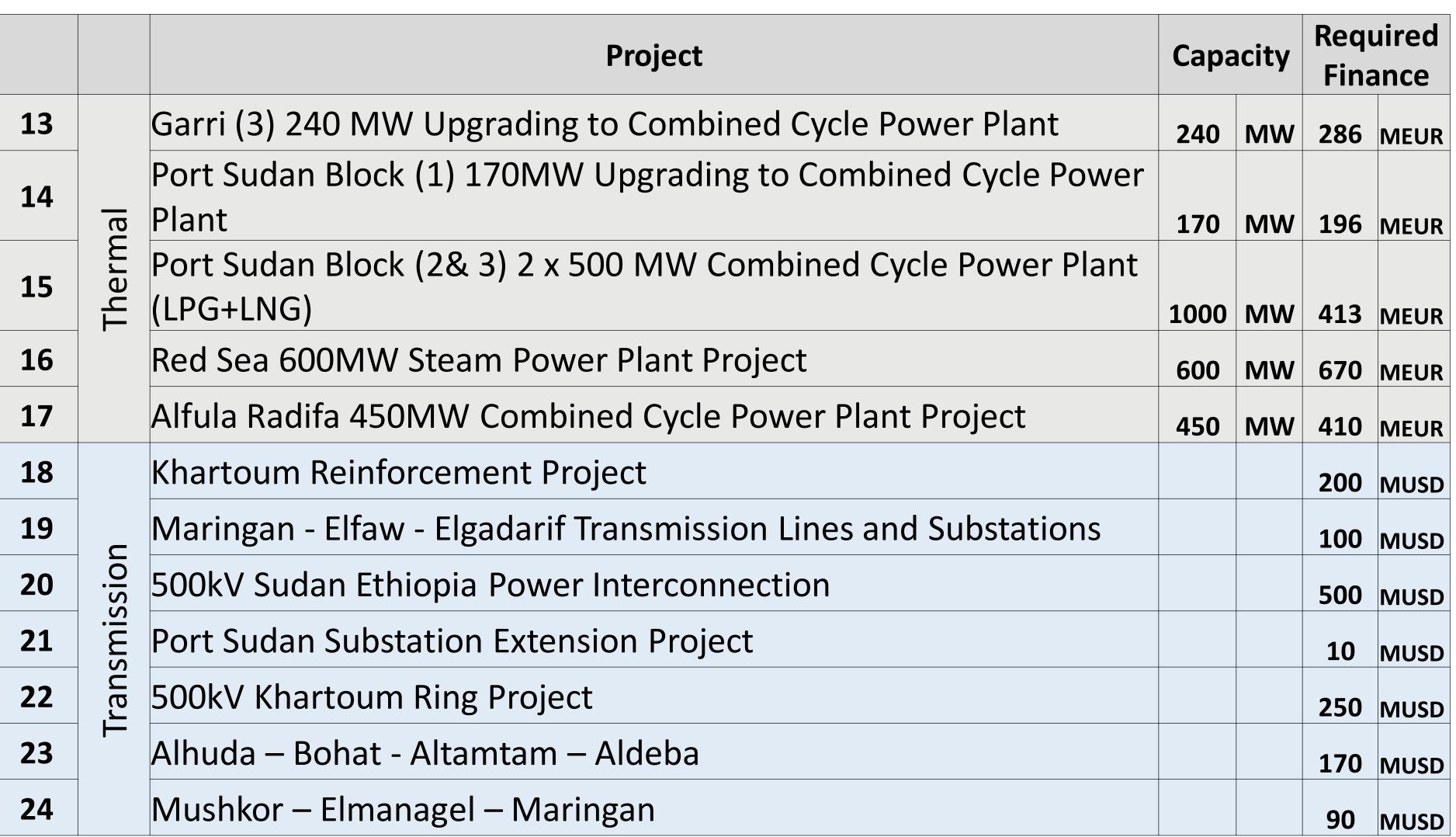




Package	Projects	ojects Capacity		Requi Finan	Priority	
Solar	Solar PV plants	415	MWp	255.5	MUSD	Priority 1
Wind	Wind Farms	300	MW	375	MUSD	Priority 2
Hydro	Hydro power plants/uprating	440	MW	177MEUR 343MUSD	MEUR MUSD	Priority 3
Thermal	Upgrading to Combined Cycle Power Plant and Steam Turbines	2460	MW	1,975	MEUR	Priority 4
Transmission	Transmission Lines and Substations			1,320	MUSD	Priority 5
Total		3615	MW	2,293.5 2,152.0	MUSD MEUR	



	Package	Project	Capa	city		Required Finance	
1		Omdurman Solar Project A (200 MW)	100	MWp	120	MUSD	
2		Port Sudan Solar Park	200	MWp	60	MUSD	
3	<u>a</u>	Elobied Solar Park (100MWp)	100	MWp	62	MUSD	
4	Solar	Elgeneina Solar Photovoltaic Project (5MWp)	5	MWp	4.5	MUSD	
5		Kadogli Solar Photovoltaic Project (5MWp)	5	MWp	4.5	MUSD	
6		Zalengi Solar Photovoltaic Project (5MWp)	5	MWp	4.5	MUSD	
7	70	Dongola Wind Energy phase I	100	MW	125	MUSD	
8	Wind	Toker Wind Farm	180	MW	225	MUSD	
9		Nyala Wind Farm	20	MW	25	MUSD	
10		Roseires power plant uprating	172	MW	177	MEUR	
11	Hydro	Sennar New Power Plant	146	MW	200	MUSD	
12		Left Bank Irrigation Outlet / Hydropower Plant – Merowe Dam	122	MW		MUSD	







Project Name	Dongola Wind Energy Cost (USD) 125MUSD Typ	e* Wind Energy	Target Start Date Date Target End Date Date						
Project Description	Installation of 100MW turbines of wind Energy as phase 1 up to 700MW in later 3 phases in Dongola town in North Sudan to produce electrical energy and evacuate it to the national grid.								
Impact	 Contributes to the gap bridging in electrical energy Complements solar generation and maximizes overall renewable energy share. Saves 72,500 ton/year of fuel. Reduces GHG by 125,552.7 tonCO2/year. Reduces overall cost of energy unit. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 High wind potential energy in the area. Close proximity to grid connection. Wide flat areas of land. Pilot project of 1MW wind turbine in the location is already under construction. Resource assessment, environmental and social impact studies are ready. FS almost ready. Foreseen agricultural transfer industries nearby. Project land officially allocated. Right of way granted to connection to grid. 						
Cost Impact	Fuel saving of 43.5MUSD/year	Sponsor(s)	Government of Sudan						



Project Name	Omdurman Solar Project A (200 MW)	Cost (USD)	170MUSD	Type*	Solar P Energy		Target Start Date	2021	Target End Date	2022
Project Description	Installation of 200MWp of the latest technology of solar PV near city Omdurman in the capital Khartoum state.								te.	
Impact	 Contributes to the gap brown Reduces overall cost of endorse Saves 92,400 ton/year of Reduces GHG by 157,837. Increases electrification resolution and agrarian surfaces and	nergy unifuel. 68 tonConent for transform stries to growth in the cone of the	it. O2/year. ut 40% now) agricultural nation. promote and to boos	t	Unique Features		High average of the area. Close proximity Wide flat areas Feasibility study Project land office Right of way graden.	to grid of of empty is ready cially allo	connection. y land. y. ocated.	
Cost Impact	Fuel saving of 55	.44MUSE	D/year	S	ponsor(s)		Gove	ernment	of Sudan	



Project Name	Port Sudan Solar Park (USD) 85MUSD T	Solar P Energy	2021 2022						
Project Description	to produce 189,537MWh and evacuate it to the national grid.								
Impact	 Contributes to the gap bridging in electrical energy Reduces overall cost of energy unit. Saves 46,200 ton/year of fuel. Reduces GHG by 78,918.84 tonCO2/year. Stabilizes the radial power line of the city of Port Sudan and hence the supply of the city and harbour. Increases electrification rate (about 40% now). Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium siz enterprises (SMES). Boosts job creation potential. 	Unique Features	 Close proximity to the main port of Sudan. High average of Direct Normal Irradiance in the area. Close proximity to grid connection. Wide flat areas of empty land. Feasibility study is ready. Project land officially allocated. Right of way granted to connection to grid. 						
Cost Impact	Fuel saving of 27.7MUSD/year	Sponsor(s)	Government of Sudan						



Project Name	Toker Wind Farm	Cost (USD)	1USD Typ	Wind Energy	/	Target Start Date	2021	Target End Date	2023
Project Description	Installation of 180MW turbines of wind energy in Toker town in eastern of Sudan near the city of Port Sudan to produce about 643.3GWh/y from wind farm with a capacity factor about 40%.								dan to
Impact	 Complements solar general overall renewable energy sites are sold to sold	hare. fuel. fuel. fuel. for tonCO2/year rgy unit. e (about 40% ent for agriculation ansformation cries to prome growth and to	ar. 5 now). 6 ltural 7. ote 6 boost	Unique Features		About 160km fight wind pote Wide flat areas Resource assessocial impact stready. Project land of Right of way gr	ential ends of land. ssment, estudies ar	ergy in the arenvironmental eready. FS a ocated.	ea. al and Imost
Cost Impact	Fuel saving of 78.3	BMUSD/year		Sponsor(s)		Gov	vernment	of Sudan	

Classification - Public

4



Project Name	Nyala Wind Farm (USD	25M/HSD	Type* Wind Energy	/	Target Start Date	2021	Target End Date	2022
Project Description	Installation of 20 MW turbines of wind energy in the isolated grid of Nyala city in Western Sudan to produce abou 64,006MWh/yr from wind energy farm to reduce fuel consumption.							
Impact	 Complements solar generation a overall renewable energy share. Saves 14,500 ton/year of fuel. Reduces GHG by 25,110.54 tonC Socioeconomic status improvem Reduces overall cost of energy used increases electrification rate (ab Creates enabling environment for investment and agrarian transfo Modernizes network industries to competitiveness, inclusive grown economic transformation. Promotes growth of small, microenterprises (SMES). Boosts job creation potential. 	O2/year. ent in Darfur st hit. out 40% now). r agricultural mation. o promote h and to boost	Unique Features		High wind pote Wide flat areas Resource asses social impact so Industrial cent waiting for energy Huge agriculture West Darfur stopject land of	s of land. ssment, e tudies are re project ergy and f ral and in ate and s	nvironmentale ready. The nearby Nyala Tinance. dustrial resou	and a city urces in
Cost Impact	Fuel saving of 8.7MUS	D/year	Sponsor(s)		Gov	vernment	of Sudan	



Project Name	Elobied Solar Park (100MWp) Cost (USD) 102MUSD Type	Energy	Date 2021 Date 2022					
Project Description								
Impact	 Contributes to the gap bridging in electrical energy. Reduces overall cost of energy unit. Saves 46,200 ton/year of fuel. Reduces GHG by 78,918.84 tonCO2/year. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 High average of Direct Normal Irradiance in the area. Close proximity to grid connection. Wide flat areas of empty land. Feasibility study is ready. Huge agricultural and industrial resources in North Kordufan state and surrounding states. Project land officially allocated. Right of way granted to connection to grid. 					
Cost Impact	Fuel saving of 27.7MUSD/year	Sponsor(s)	Government of Sudan					



Project Name	Elgeneina Solar Photovoltaic Cost Project (5MWp) (USD) 4.5MUSD Type	* Solar P\ Energy	Target Start Date Date Target End Date Date					
Project Description								
Impact	 Contributes to the gap bridging in electrical energy by adding 9,800MWh/year. Reduces overall cost of energy unit. Reduces GHG by 7,128 tonCO2/year. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 High average of Direct Normal Irradiance in the area. Huge agricultural and transfer industrial resources in the area. 500 hectares available for project site. Project land officially allocated. 					
Cost Impact	Fuel saving of ????MUSD/year	Sponsor(s)	Government of Sudan					



Project Name	Kadogli Solar Photovoltaic Project (5MWp) Cost (USD) 4.5MUSD Type	* Solar P\ Energy	Target Start Date Date Target End Date 2021 Date						
Project Description									
Impact	 Contributes to the gap bridging in electrical energy by adding 9,800MWh/year. Reduces overall cost of energy unit. Reduces GHG by 7,128 tonCO2/year. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 High average of Direct Normal Irradiance in the area. Huge agricultural and transfer industrial resources in the area. 500 hectares available for project site. Project land officially allocated. 						
Cost Impact	Fuel saving of ????MUSD/year	Sponsor(s)	Government of Sudan						



Project Name	Zalengi Solar Photovoltaic Cost Project (5MWp) 4.5MUSD Type	Solar P\ Energy	Target Start Date Date Target End Date Date		
Project Description	A solar PV park with total capacity of 5MW as clean, sustainable energy project utilizing the abundant solar irradiation to generate electrical energy that will feed the isolated grid of Zalengi city in Central Darfur state.				
Impact	 Contributes to the gap bridging in electrical energy by adding 9,800MWh/year. Reduces overall cost of energy unit. Reduces GHG by 7,128 tonCO2/year. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 High average of Direct Normal Irradiance in the area. Huge agricultural and transfer industrial resources in the area. 500 hectares available for project site. Project land officially allocated. 		
Cost Impact	Fuel saving of ????MUSD/year	Sponsor(s)	Government of Sudan		



Project Name Project Description	Roseires power plant uprating Replacement of major turbine parts of the existing 7x4 feasibly increase plant installed capacity by 162 MW (+ (5-7) from (40 to 70 MW)).	electric 10MW units	Date Date Date 2021 Date 2027 S, runner hub, and generator at Roseires dam. Will
Impact	 Contributes to the gap bridging in electrical energy. Harnesses more hydro-electric wasted energy. Enhances stability of the national grid. Saves 177,390.00 ton/year of fuel. Reduces overall cost of energy unit. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 Modification to existing clean energy power station. Feasibility study is ready. Tender Documents under preparation (99% completed). Ethiopian Renaissance dam will maintain sustainable inflow upstream.
Cost Impact	Fuel saving of 88.695MUSD/year	Sponsor(s)	Government of Sudan



Project Name	Sennar New Power Plant (USD)	200MUSD Ty	/pe* Hydro- electric		Target Start Date	2021	Target End Date	2025
Project Description	Construction of a new powerhouse 146MW capacity (4 units Bulb turbines X 36.5MW) in existing Sennar dam on the Blue Nile river, approximately 320km Southeast of Khartoum and 270 km downstream Roseires Dam. The existing power house is a 2x7.5MW Kaplan turbines set.							
Impact	 Contributes to the gap bridging in electrical energy. Harnesses more hydro-electric wasted energy. Enhances stability of the national grid. Saves 127,896.00 ton/year of fuel. Reduces overall cost of energy unit. Increases electrification (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 				n. ires dam			
Cost Impact	Fuel saving of 63.948MUS	D/year	Sponsor(s)		Gov	vernment	of Sudan	



Project Name	Left Bank Irrigation Outlet / Hydropower Plant – Merowe Dam Cost (USD) 1431	/IUSD Type	Hydro- Target Start 202 electric Date	Target End 2024 Date
Project Description	Installation of 3 New Francis units X 40.7MW (122.1 MW total) on left bank irrigation outlet of Merowe dam Located downstream of the 4 th cataract of the River Nile, about 350km North of Khartoum.			
Impact	 Contributes to the gap bridging in electrical energy Harnesses more hydro-electric wasted energy. Enhances stability of the national grid. Saves 80,154.00 ton/year of fuel. Reduces overall cost of energy unit. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium size enterprises (SMES). Boosts job creation potential. 	Unique Features	 Modification to existing of station. Feasibility study is ready. Ethiopian Renaissance, Roupper Atbara dams will a sustainable inflow upstready. Promotion of agricultural wide areas in North Sudainable. 	oseires, Sennar and II maintain am. production sector in
Cost Impact	Fuel saving of 40.077MUSD/year	Sponsor(s)	Government c	of Sudan



Project Name	Garri (3) 240 MW Upgrading to Combined Cycle Power Plant (CCPP) Combined Cycle Power Plant (CCPP) Combined Cycle Power Plant (CCPP)	.86 Type*	* Waste Heat Recovery Target 2021 Target End Date 2025
Project Description	Upgrading of Garri 3 Ongoing OCPP project which is under commissioning phase now to CCPP. The existing plant includes 3x187MW Siemens GT (Iso Mode). The project is technically and economically feasible.		
Impact	 Contributes to the gap bridging in electrical energy. Harnesses waste heat energy. Saves 550,050.91 ton/year of fuel. Increases Garri 3 plant efficiency by more than 20%. Reduces overall cost of energy unit. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 240MWe from waste heat recovery. All necessary equipment needed for not interrupting the operation of the OCPP during upgrading to CCPP are ready. Energy source secured. Installed gas turbines (3x187MW) are multifuel. Power plant fuel piped from adjacent refinery strategic storage. Project site ready for construction.
Cost Impact	Fuel saving of 247.523MUSD/year	Sponsor(s)	Government of Sudan



			SODAN DISCONSISTENCE OF THE STATE OF THE STA
Project	Port Sudan Block (1) 170MW Upgrading Cost 196	Tvn	Waste Heat Target 2021 Target 2024
Name	to Combined Cycle Power Plant (CCPP) (EUR) MEI	JR "	Recovery Start Date End Date
Project	Upgrading of Port Sudan Ongoing OCPP project which	is under c	onstruction phase now to CCPP. The existing plant
Description	includes 2x187MW Siemens GT (Iso Mode). The project	is technica	lly and economically feasible.
Impact	 Contributes to the gap bridging in electrical energy. Harnesses waste heat energy. Enhances stability of the national grid. Increases plant efficiency by more than 20%. Saves 389,619.40 ton/year of fuel. Reduces overall cost of energy unit. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 170MWe from waste heat recovery. All necessary equipment needed for not interrupting the operation of the OCPP during upgrading to CCPP are ready. Energy source secured. Installed gas turbines (2x187MW) are multi fuel. Close proximity to the main port of Sudan. Project site ready for construction.
Cost Impact	Fuel saving of 175.329MUSD/year	Sponsor(s)	Government of Sudan



Project Name	Port Sudan Block (2& 3) 2 x 500 MW Combined Cycle Power Plant (CCPP)(LPG+LNG)	Cost (EUR)	413 MEU	R Type*	ССРР	Target Start Date	2021	Target End Date	2024
Project Description	Installation of 2x500MW Combined Cycle Power Plant about 4km to the South of Port Sudan city (the main port of Sudan). LPG and LNG fuel types are to be used which can easily be secured through the port.								
Impact	 Contributes to the gap bridging in electrical enershances stability of the national grid. Saves 420,480.00 ton/year of fuel. Reduces overall cost of energy unit. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium senterprises (SMES). Boosts job creation potential. 		Unique Features	total in countr supply Close p Feasib Projec	nstalled y whic gap. proxim ility stu t site r	te to about generation has equivality to the mady is ready for congranted to	n capa ent to nain po /.	city in the the preserence of Suda	nt n.
Cost Impact	Fuel saving of 94.608MUSD/year		Sponsor(s)		G	overnment	of Sud	lan	



Project Name	Red Sea 600MW Steam Power Cost (EUR) 670 Hant Project (EUR) MEUR	Therm Genera	al Power Target Start Date 2021 Target End Date 2024			
Project Description		Installation of 600MW thermal power plant of steam turbines about 60km to the North of Port Sudan city (the main port of Sudan). Coal fuel type is to be used which can easily be secured through the port.				
Impact	 Contributes to the gap bridging in electrical energy. Reduces overall cost of energy unit. Increases electrification (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 Will contribute to about 17% increase to the total installed generation capacity in the country. Close proximity to the main port of Sudan. Feasibility study is ready. Project site ready for construction. Right of way granted to connection to grid. Nearby potential of large mining industry elaborated by feasibility study. Free customer trading and industry zone planned close to this project. 			
Cost Impact	Fuel saving of 39.420MUSD/year	Sponsor(s)	Government of Sudan			



				SODAN DISCONSISTENCE SODAN DISCONSISTENCE SODAN DISCONSISTENCE SODAN DISCONSISTENCE SODAN DISCONSISTENCE SODAN
Project Name	Alfula Radifa 450MW Combined Cycle Power Plant Project (CCPP)	Cost (EUR)	410 MEUR	Type* CCPP Target Start Date 2021 Target End Date 2024
Project Description			North of Alfula town in the state of North Kordufan e associated and non-associated natural gas from	
Impact	 Contributes to the gap bridging in electrical end Improves overall environmental impacts. Saves 197,100.00 ton/year of fuel. Reduces overall cost of energy unit. Increases electrification rate (about 40% now). Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium enterprises (SMES). Boosts job creation potential. 		Unique Features	 Will contribute to about 13% increase to the total installed generation capacity in the country. Feasibility study is ready. Associated and non-associated natural gas reserves discovered nearby. Project site ready for construction. Grid transmission Substation adjacent to project site. Project reached tender evaluation phase and cancelled for insufficient finance.
Cost Impact	Fuel saving of 88.695MUSD/year		Sponsor(s)	Government of Sudan



Project Name	Khartoum Reinforcement Project (USD) Cost (USD) 200 MUSD	Type*	Transmission	Target 202	Target End Date	2023
Project Description	Construction of 220&110kV transmission lines, 2 new su	bstations a	and the extension	n of 9 existing su	ıbstations.	
Impact	 Increases electrification rate (about 40% now). Reduces overall system losses. Maintains a continuous and reliable supply of electric power in the strategic state of Khartoum. Relieves the bottlenecks in the transmission grid. Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 Feasibility sto Project sites Right of way 	ready for const		es.
Cost Impact	Awaiting data from SETCO	Sponsor(s)	G	overnment of S	udan	



Project Name	Maringan - Elfaw - Elgadarif Transmission Cost Lines and Substations (USD) MU	Tvpe [*]	i ransmission (in the contract of the contract	Target 2021 art Date	Target End Date	2023
Project Description	Construction of 224km of 220kV transmission lines in substations.	n addition	to a new substatio	n and extensi	on of 2 e	existing
Impact	 Increases electrification rate (about 40% now). Reduces overall system losses. Relieves the bottlenecks in the transmission grid. Provides alternative to evacuate power imported from Ethiopia and Upper Atbara Dam. Improves the voltage profile in Gazeira area. Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 Huge energy potential Renaissance Dam Feasibility study in the Project sites read Right of way grain 	n. is ready. dy for constru e	ction.	es.
Cost Impact	Awaiting data from SETCO	Sponsor(s)	Gover	rnment of Sud	an	



Project Name	500kV Sudan Ethiopia Power Interconnection	Cost (USD)	500 MUSD	Type*	Transmission	Target Start Date	2021	Target End Date	2023
Project Description	Construction of 500kV transmission line substations.	with a l	ength of	590km	n, 2 new substa	tions and e	extens	ion of 2 e	existing
Impact	 Contributes to the gap bridging in electr Reduces overall cost of energy unit. Increases electrification rate (about 40% Creates enabling environment for agricular investment and agrarian transformation Modernizes network industries to promote competitiveness, inclusive growth and to economic transformation. Promotes growth of small, micro and menterprises (SMES). Boosts job creation potential. 	now). Itural ote o boost	Un Fea	ique tures	 Huge energy Renaissance Feasibility stu Tender docum Project sites Right of way 	Dam. Idy is ready ments are re ready for co	eady. <mark>onstru</mark>	ction.	e.
Cost Impact	Awaiting data from SETCO		Spor	isor(s)	G	overnment	of Sud	lan	



Project Name	Port Sudan Substation Extension Project	Cost 10 (USD) M	USD	Type*	Transmission	Target Start Date	2021	Target End Date	2022
Project Description	Upgrade and extension of transformers to a d	capacity o	f 3*150I	MVA i	n the existing su	ıbstation o	f Port S	Sudan.	
Impact	 Increases electrification rate (about 40% notes) Evacuates the power generated from the replanned Port Sudan Power Plant to the nates Establishes reliable electric power supply to of Port Sudan. Creates enabling environment for agriculturinvestment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to be economic transformation. Promotes growth of small, micro and med enterprises (SMES). Boosts job creation potential. 	new tional gric to the city ural	Uniq Featu	que	Huge power a Feasibility stu Project site re	idy is ready			area.
Cost Impact	Awaiting data from SETCO		Spons	or(s)	G	overnment	of Sud	an	



Project Name	500kV Khartoum Ring Project (USD) Cost (USD)	JSD Typ	* Transmission	Target 2021	Target End Date	2023
Project Description	Construction of 271km of 500kV transmission lines, new	v substatio	n and extension i	n two existing 500)kV substat	ions.
Impact	 Increases electrification rate (about 40% now). Reduces overall system losses. Maintains a continuous and reliable supply of electric power in the strategic state of Khartoum. Relieves the bottlenecks in the transmission grid. Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	•	udy is ready. ready for construct granted to transi		es.
Cost Impact	Awaiting data from SETCO	Sponsor(s		Sovernment of Suc	dan	



Project Name	Alhuda – Bohat - Altamtam – Aldeba (USD) Cost (USD)	Type ³	* Transmission Target Start Date 2021 Target End Date 2023
Project Description	Construction of 320km of 220kV transmission lines in substations.	addition	to 2 new substations and extension of 2 existing
Impact	 Increases electrification rate (about 40% now). Supplies the agricultural projects to the North and West of Khartoum state. Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 Huge agricultural and transfer industrial resources targeted. Feasibility study is ready. Project sites ready for construction. Right of way granted to transmission lines.
Cost Impact	Awaiting data from SETCO	Sponsor(s)	Government of Sudan



Project Name	Mushkor – Elmanagel – Maringan (USD) Solution (USD)	SD Type ³	i ransmission –	Target tart Date 2021	Target End Date	2023
Project Description	Construction of 165km of 220kV transmission lines in substations.	n addition	to a new substation	on and extensi	ion of 2 e	existing
Impact	 Increases electrification rate (about 40% now). Maintains a continuous and reliable supply of electric power in the agricultural area of Almanagel. Evacuates the power from IPP generation in Sugar White Nile Factory. Creates enabling environment for agricultural investment and agrarian transformation. Modernizes network industries to promote competitiveness, inclusive growth and to boost economic transformation. Promotes growth of small, micro and medium sized enterprises (SMES). Boosts job creation potential. 	Unique Features	 IPP biomass gen Huge agricultural resources target Feasibility study Project sites real Right of way grade 	al and transfer ted. is ready. ady for constru	industrial ction.	
Cost Impact	Awaiting data from SETCO	Sponsor(s)	Gove	ernment of Sud	an	



ENARAA Flagship



wind, solar, hydroelectric, and waste heat recovery totaling 1.2 billion USD and will generate 1000 MW of power

	Cost (million USD)	Output (megawatts)
Wind	375	375
Solar	357	357
Hydro	143	143
Thermal	286	286
Total	1161	1062



Mining Sector Opportunities





Project Name	Produce Gold from The Remnants of past years operations	Cost (USD)	100 M £	Type*	R	& D	Target Start Date	2021	Target End Date	2023
Project Description	Absorbing the minerals stone in the squa quick solution to increase the annual production		•		the con	cession ar	rea (with conce	pt of national	mining paper),	can be a
Impact	 Expected production: 15 tons of gold 90 tons of silver 				que tures		e is a feasibility see is a design stu		- ·	Vile river
Financing	Donation/ Self-fin	nancing		Spon	sor(s)		Ministry	of Energy &	Petroleum	



Project Name	Produce copper , zinc and Gold from Volcanogenic massive Sulfide	Cost (USD)	480 M £	Type*			Target Start Date	2021	Target End Date	2023
Project Description	Absorbing the minerals stone in the squar quick solution to increase the annual prod	•			the con	cession ar	rea (with concep	ot of national	mining paper),	can be a
Impact	 ★ Expected production: ▶ 600,000 tons of copper ▶ 200 thousand tons of zinc ▶ 20 tons of gold ▶ 100 tons of silver 				ique tures	Prove√7√68√20	e is a feasibility sen Mineral Rese 7 tons of gold 88,000 tons of co 00 thousand ton 000 tons of silve	rves opper s of zinc	tional expert)	
Financing	 Formation of a public joint stock compa Looking for a financially competent part preference. Create a Financial portfolio. 		nd technologica	Spor	isor(s)		M	inistry of Min	ing	



Project Name	IVIATNIA AND GRANITA	ost SD) 1.5 USD	Type*	Target Start Target End Date
Project Description	,	, creating a large mark	et for natural m	and decorative purposes for the global and local markets, with the arble inside Sudan, through external financing.
Impact	It is the societal and regional development of increasing employment opportunities, and to income for new groups	•		
Financing	 Formation of a public joint stoce Looking for a financially competent partner preference. Create a Financial por 	er with and technologic	Sponsor((s) Ministry of Mining

Flagship



Gold Production







Agricultural Sector Opportunities





Project Name	Al-Hawad Valley	Cost (USD) 400 M USE	Type*	Inves	stment	Target Duration	7 Years	Stages	3			
Project Description	Acquiring latest technologies and building irrigation systems to cultivate corn, wheat, legume, and fruits. This project will be established in White Nile Province on area of one million hectare.											
Impact	 Improving citizens' incomes and raising Contributing to social development in a providing job opportunities for different 	the area.	L	nique	and o ■ Utilizi ■ Availa	uction of 120K to other crops. ing new technolo ability of rich soi ability of water fo	ogies. I.	nd 180K ton of	legume			
Financing	40% Local-60% l	-oreign	Sp	onsor(s)		Min	istry of Agricu	lture				



Project Name	Hashaba Agricultural & Animal Cos Cultivation (USI		Type*	nvestment	Target Duration	20 Years	Stages	3				
Project Description	Building irrigation facilities and water harvesting dams to cultivate green fodder, vegetables, fruits, jatropha, and animal resources. The project is located in N.Kurdufan province on area of 130K hectare.											
Impact	 Improving citizen's income and providing commodities. Contributing to social development in the projection. Providing job opportunities for different education. 	ect area.	ntial Unique Features	SuitaAvailaInfrasThe pKhart	ability of rich soi ble climate for c ability of capable structure and sec oroject is in the v coum Internation ability of Resea	ultivation of cree and trained no cree and trained no cree cree crees. It is incitived in the cree cree cree cree cree cree cree cr	ops. nanpower. toum new airp Al-Obaied airp	oort.				
Financing	Collaboration between Gov and For	eign Partner	Sponsor((s)	Min	istry of Agricul	ture					



Project Name	Jabal Marra Agricultural Development	Cost (USD)	850M USD	Type*	Inve	estment	Target Duration	10 Years	Stages	3			
Project Description	Building irrigation facilities and water harvesting dams to cultivate onion, potato, wheat, citrus, field crops, and fruits crops. This project is located in Darfur province on area of $7400 \text{K}m^2$												
Impact	 Improving citizen's income and proceed commodities. Contributing to social development in the Providing job opportunities for different and proceed commodities. 	he project a	area.	Un	ique tures		ability of rich soi ble climate for c		•				
Financing	Collaboration between Gov a	nd Foreign	Partner	Spor	isor(s)		Min	istry of Agricul	ture				



Project Name	Gum Arabic Production & Distribution	Cost (USD)	1106MUSD	Type*	Inve	estment	Target Duration	4 Years	Stages	-
Project Description	recultivating gum on an area 0f 104.166 l in Darfur, Sennar, Blue Nile, W.Kurdufan		<u> </u>		-	-		m for producti	on. This projec	ct is located
Impact	 Improving citizen's income and p commodities. Contributing to social development in the Providing job opportunities for different Rehabilitation of gum Arabic cultivation Establishing new opportunities for distent Attracting more investments. 	the project to the control of the co	area. nal levels. uction.	Un	ique tures	■ Suda	n is the top prod in is rich in gum ia and Hashab p	producing tree	es.	abic.
Financing	Collaboration between Gov a	nd Foreign	Partner	Spor	nsor(s)		Min	istry of Agricu	lture	



Project Name	Renanilitation of Gazira Scheme	Cost USD) \$1.08 M	Type*	Agrid	cultural	Target Duration	Stage	es
Project Description	The oldest and the largest interns of area irrill the most important development project. The total irrigated area of 2.1 Million feddens		ry of Sudan.					
Impact	 Achievement of welfare and good livelihor through sustainable socio-economic development. Protect environment with the scheme are Assure the right of farmer to effectively reconomic affairs freely within the technology support to maximize profits. 	elopment a nanage their production nical parameters and	n and make	nique atures	rotati farme Main grand The vof all the ninto estime Continuous	on to five cropers and returned crops grown drouts. water needed at minors taken on the main can hated, water is stinuous flow is	rotation and free choos to five crop rotation. include: cotton, wheat the major level is the soft from the side major, ded up to compute the last. According to the applied from the dam. provided to the offten continually to provide off-takes.	oice of crops for at, sorghum and sum of the need of and the need of e supply needed e demand thus akes so that in
Financing			Spo	nsor(s)		Govern	nor of Gezira Scheme	



Flagship Project

- Rehabilitation of Gezira Scheme
- Gum Arabic Production & Distribution



Opportunities



- 1-A free zone for livestock products. Fattening and livestock breeding area quarantine area modern slaughterhouses meat industry leather industries animal waste industry cold storage area Location: South Suakin
- 2. Veterinary vaccine production research: Establishing a complex for the production of viral vaccines and the production of bacterial vaccines to combat diseases and epidemics and to preserve livestock.

Location: Khartoum (Central Veterinary Research Laboratory)

Cost: \$ 700 million

3. Livestock Economics Research Center:

Develop strategies and guidelines for implementing research aimed at developing the livestock sector, providing food security, contributing to increasing national income by marketing livestock products.

Location: Khartoum Cost: \$ 50 million

- 4. Leather Industries Complex
- 5. A complex for the manufacture of fish products
- 6. A complex for the manufacture of dairy products
- 7. Development and development of animal production



	Project Name	Fish Farming	Cost (USD)	50 M USD	Type*	Live	estock	Target Start Date	2022	Target End Date	2023	
	Project escription											
	Impact	 Economical: Open Markets to meet local and Inforease Job Opportunities. Contribute in achieving Food Secure. Contributing in supporting the dome. Contributing in maximizing the procests. Developing the rural areas. 	rity. estic gross	s product.	Fea	que tures	Fillin	ping The Natura g the gap and s ease the local co	shortage of	fish industry	n the	
F	inancing	Fund			Spor	sor(s)	Ministr	y Of Animal Re	sources & I	Ministry Of Inve	estment	



Project Name	Integrated Meat and Animal Products Resources Cost (USD) 177 M USD T	ype* Liv	vestock Target Start 2022 Target End 2025
Project Description	 This Project focuses on producing the best quality meat to meet It consists of internal small projects as follow: Slaughterhouse for the purpose of exporting mutton Meat products factory A project for the production and export of fodder A project to raise goats for live export and for slaughterhouse Dairy products factory Leather tannery project 		gional and international demand for consumption
Impact	Positive Impacts: A high-efficiency sanitation system will be implemented for the slaughterhouse so that the slaughterhouse waste does not affect the environment surrounding the barn areas. Negative Impacts: The negative effects are limited and can be controlled, and if the sanitation is not constructed with the required efficiency, the factory's differences will affect the environment and lead to the transmission of diseases.	Unique Features	 The presence of large numbers of food animals and their availability throughout the year in the selected areas The presence of an internal and external market to receive the project's products Availability of land, water, energy, roads, auxiliary services and a trained workforce Infrastructure for meat exports, especially slaughterhouses and cold stores Increasing rates of meat consumption in neighboring countries, especially the Gulf and Middle East countries Increasing the number of livestock will reduce pressure on pastures and water resources The establishment of slaughterhouses opens the way for the establishment of many small industries and thus increased job opportunities
Financing	Fund	Sponsor(s)	Ministry Of Animal Resources & Ministry Of Investment

A free zone for livestock products. Fattening and livestock breeding area - quarantine area - modern slaughterhouses - meat industry - leather industries - animal waste industry - cold storage area Location: South Suakin



Project Name	Modern automatic slaughterhouses	Cost (USD)	50 M per State	Ту	/pe*	Live	estock	Target Start Date	2022	Target End Date	2023
Project Description	 Slaughterhouse for the purpose of meat - a factory for meat proslaughtering calves and preparing. The slaughterhouse operates wit 500 heads of calves and 3000 he connects electricity services, irrig sanitation, coolers and an integ airport and quarry. Consists of: Fattening unit (daily slaughterhouse section (not slaughterhouse section (not slaughterhouse equipment sanitation, disinfection and section (not slaughterhouse). Sub-Meat Products Factory. Tannery section / Refriger means of transport section. 	oducts for them for the a products of she at ion water attent of the composite of the compo	the purpose export purpose export purpose of the capacity eep per shift er, drinking was ort village at ection laborate incinerator room.	e of ses. y of and ater, the and	Impa	acts	 A high implessaure surre Neg The and requested the experience of the content of the	itive Impact: gh-efficiency sa emented for the ghterhouse wa ounding the bar ative Impact: negative effect if the sanitation ired efficiency, environment an ases.	e slaughterh ste does no n areas. s are limited is not cons the factory's	ouse so that the and the care and can be continued with the differences with the care and the care are also be care as differences.	vironment ontrolled, e vill affect
Financing	Fund				Spons	sor(s)	Ministr	y Of Animal Re	esources & M	Ministry Of Inv	estment



Flagship Project

Integrated Meat & Animal Products Complex

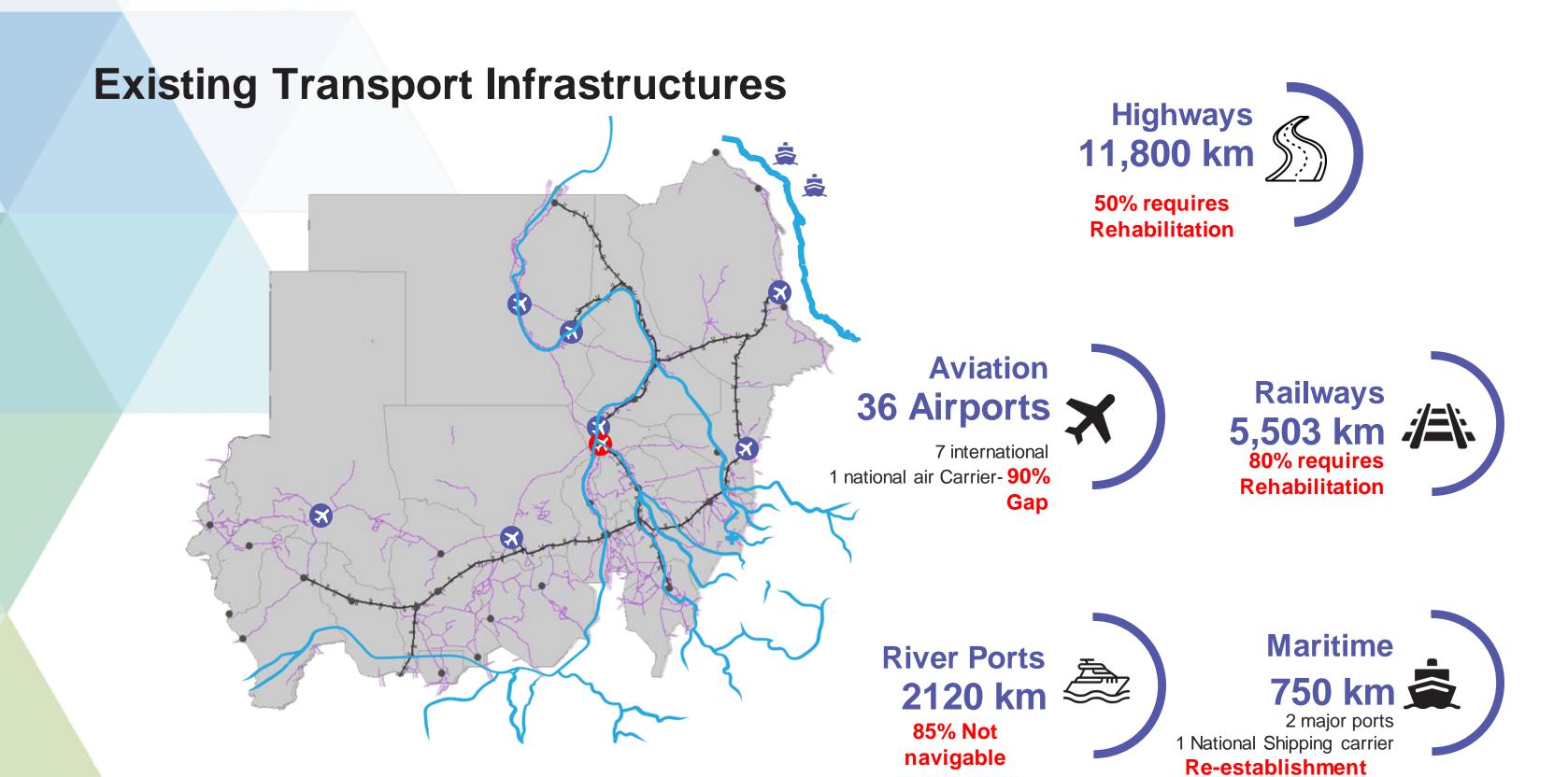




Transport Investment & Opportunities









Project Name	Port Suakin development Project	Cost (USD)	3-5 Billion	Type*	Infrastr	ructure	Target Start Date	2021		2024		
Project Description	Design and construction of a new port as a continental new hub for trade. Location and area: Eastern Sudan, Red Sea State. Suakin lies on the Red Sea coast 36 miles (58 km) south of Port Sudan.											
Impact	Expand market opportunities a international trade (exports and neighboring countries. Direct post Increase capacity of maritime traffic for the country and neighboring countries and urban development for the	imports) itive impa . Improve ountries- (for Sudan oct on the Good transport logistication conomic grow	and IDP. Unstics Fea	ique itures	neighbor	e (entry and end ring land locked to receive mot	d countries.				
Financing	Public Private Partnership or Investm financial institution and Commercial NPV 14%= USD 65,899,580.56, Cumu	financing		_	nsor(s)			GoS				



Project Name	Sudan Airways Projects	Cost (USD)	\$ 2 Billion	Type*	Procu	rement	Target Start Date	2021	Target End Date	2023
Project Description	Rebuild the national air carrier-purchase of fleet (passengers and cargo), upgrade of catering services and ground handling equipment and processes.									
Impact	 re-capture market share both in domestic and international air traffic utilize the current under-capacities such as routes rights and human capital On the domestic market, an improvement of travel services may encourage Sudan residents to use more air travel According to economies of scale rule, expansion of fleet will contribute to reduction of operating costs and hence generating more than proportional revenue. help to boost aggregate demand, increase short-run economic growth and create job 				ique itures	to rou	tes – 60 bil	ateral ag oort. Eas	nd establish greements, ily accessibl	•
Financing	lease purchase; Commercial financin	ıg		Spo	nsor(s)	GoS				



Project Name	Building Sudan Shipping Line Fleet	Cost (USD) 1.2	-2 Billion	Type*	Infras	tructure	Target Start Date	2021	Target End Date	2022
Project Description	Building and reestablishing Sudan Shipping Line Fleet. The company is aimed to efficiently serve the following activities: Shipping Agency: provides ship agency services for shipping Lines calling Sudanese ports; Clearance and Forwarding, Warehousing and Inland Transportation; Stevedoring Services; Passengers Services; Travel and Tourism; Ship Chandelling Services; Ship Contracting.									
Impact	 secure flow of national commodities to and from the country. Open new markets for national exports Reduce foreign currency demand by transporting state imports through the national carrier. Create new jobs in the field of maritime industry, training of new candidates and positively affects the overall employment. 			ıgh Un	 Well established and recognized logo/brand Help opening new markets for Sudanese exports. Transport state and private sector imports necessary socioeconomic development. Play an important role in stabilizing the prices by avareliable international sea transport services. Render more foreign currency and hence support bal of payments. Assist in transferring new technologies. 					
Financing	lease purchase; Commercial financin	g		Spor	nsor(s)	GoS				



Project Name	Railways	Cost (USD)	2.6 Billion	Type*	Infrastr	ructure	Target Start Date	2021	Target End Date	2023
Project Description	Rehabilitation and construction of rails, purchase of locomotives and installation & operations of computerized systems									
Impact	Project Description: Rehabilitation and construction of rails, purchase of locomotives and installation & operations of computerized systems Impact: Facilitation of trade				ique tures	existing	network and a	available lan	ds.	
Financing	lease purchase for PPP; Commercial	financing		Spor	nsor(s)			GoS		

MUTRABIT Flagship will cost 24.2 billion dollars and will include rehabilitating existing assets and developing new ones



Program Areas	Existing Assets	Current Challenges	Program Cost (\$B)
Highways	11,800 km of roads	50% requires rehabilitation	7
Sea Ports & National Shipping Line	750 km coast 2 ports and 1 national line	Requires major overhaul	9
Railways	5,503 km of track	80% requires rehabilitation	5
River Transport	2120 km of rivers	85% Not navigable	.2
Airports & National Carrier	36 airports 7 international and 1 National Carrier	restricted access to airspace	3
MUTRABIT Program	n Cost		24.2

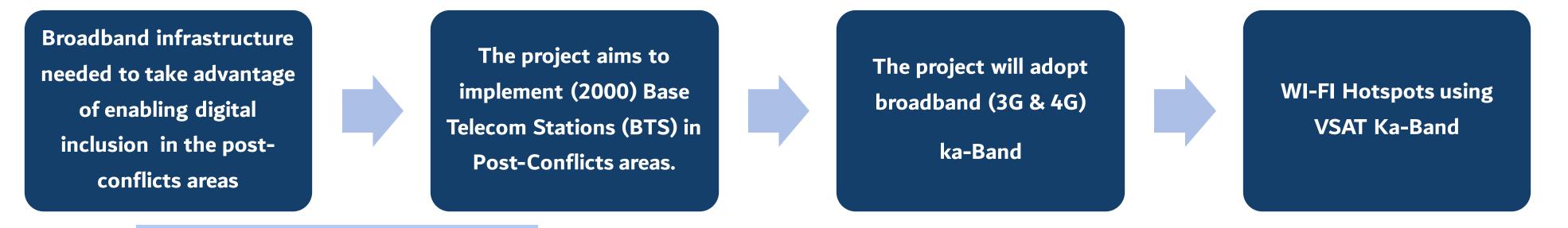


Digital Transformation Program (Emmar) (Re-building Telecommunications Infrastructure in Post- Conflict Areas)

Project Overview and Rationale



- The project aim to ensure availability of telecommunication services (voice and internet) for all members of society, especially for rural, remote areas which are economically non profitable
- One of the transitional government key goals is to provide all citizens the right to access telecommunications and information technology without any discrimination



Indirect impact of the project

Enabling Public services and utilities (e.g. electricity, education, market, police)

Improve security situation and accessibility in the area

Improve proximity of the remote areas

Serving 6 million population living in the area

Universal Coverage Project: Investment Model

PPP investment:
build 2000 telecom
towers
\$ 696 M

Telecom operators
buy network
coverage from the
investor

MNOs sell airtime and internet services to consumers

Public Private Partnership Investment

Project Profile and Description



Project Name	Digital Transformation Program (Emmar)	ost (USD) <i>\$ 695 M</i>	Type*	Servi	ice	Target Start Date	2022	Target End Date	2025
Project Description									ces and ICT h, electricity, al Services in
Impact	 Achieve more coverage of Telecommunications and spread of Digital Financial Services and make financial products and service available on demand. Create jobs for youths in post conflict areas (Youth Engagement with Digital Transformation). Promote and accelerate the current peace efforts. Enable the stabilization efforts of the post conflict areas population. Fast-track the rebuilding and integration process towards resuming normal life and economic activities. Support transitional government strategy for Digital Transformation across the country . 			Unique eatures					
Financing	Required an amount of \$ 695,969,265 to in order to serve all post- conflict areas a digital services in the targeted areas. Probetween 6-8 years with IRR: 12.6% and I	and to broaden the provi oject payback (PBP) est	sion of	Ministry of Telecommunications & Digital Transformation (MTDT)					