



25MW PV SOLAR PLANT

**Mansa Power
Development Limited
(MPDL)**

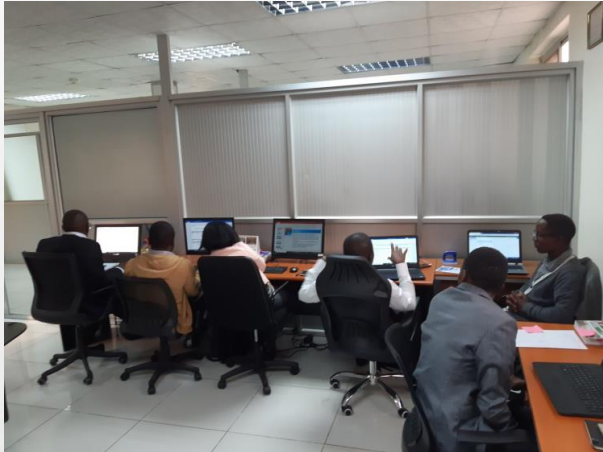


INVESTOR PITCH





CGM POWER GROUP



**ADVANCING A CLEAN
AND GREEN
INDUSTRIALISED
WORLD**

**IMPACT INVESTMENT
PURPOSE INVESTMENT
YOUTH DRIVEN.**

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01 INTRODUCTION

 **MANSA POWER
DEVELOPMENT**



IMPACT INVESTMENT. PURPOSE INVESTMENT

Project Overview

MANSA POWER DEVELOPMENT LIMITED (MPDL) 25MW PV SOLAR PLANT

PROJECT DETAILS

PLANT CAPACITY	:	25MW
LOCATION	:	BAHATI, MANSA DISTRICT, ZAMBIA
DEVELOPER	:	CGM POWERGROUP LIMITED

 **MANSA POWER
DEVELOPMENT**



IMPACT INVESTMENT. PURPOSE INVESTMENT

Roadmap / Timelines

01.

Company
Incorporated

2014

03.

Feasibility
Study Approved

2022

05.

Financial Close
and
Construction of
25MW Plant

2023

07.

Scaling up
Phase

Post 2025

02.

Feasibility and
other Technical
Studies

2019 -2021

04.

Regulatory
Clearances and
Land
Procurement

2022

06.

Construction,
Commissioning
&
Operationalize
Facilities

2024 - 2025

Project Milestones

Completed Milestones by IPP (Developer)

- ☑ **Land for Project (s)** - Secured for site: 158 hectares; under conveyancing
- ☑ **Feasibility Rights** - Secured and Granted by Ministry of Energy (MoE)
- ☑ **Economic & Social Survey / Physical & Socio Economic Survey** - Completed and Approved
- ☑ **Grid Integration Study and Report** – Completed and Approved by ZESCO
- ☑ **Power Purchase Agreement (PPA) – Options in dialogue: Power Trading and Public Procurement**
- ☑ **Investment License** - Secured and issued by Government of Zambia [Zambia Development Agency (ZDA)]
- ☑ **Investment Protection and Promotion Agreement (IPPA)** – Signed with Government of Zambia [(ZDA)]
- ☑ **Technical Reports** – Completed Topography Report, Seismic Report and EISA filed before authorities and Zambia Environmental & Management Agency (ZEMA))
- ☑ **Feasibility Report** - Completed and Approved by Ministry of Energy (MoE)
- ☑ **Implementation Agreement (IA)** – Signed between CGM Power Group Limited and Government of Zambia [(MoE)]
- ☑ **EIA Report – Step after Environmental Impact Statement initiated.** Final Stage (WIP) and submitted for Approval

Work in Progress

Power Purchase Agreement (PPA)	ERB Construction Permit	EPC and O&M Contractors	Financial Close	Construction & Commissioning
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Mansa Project Site

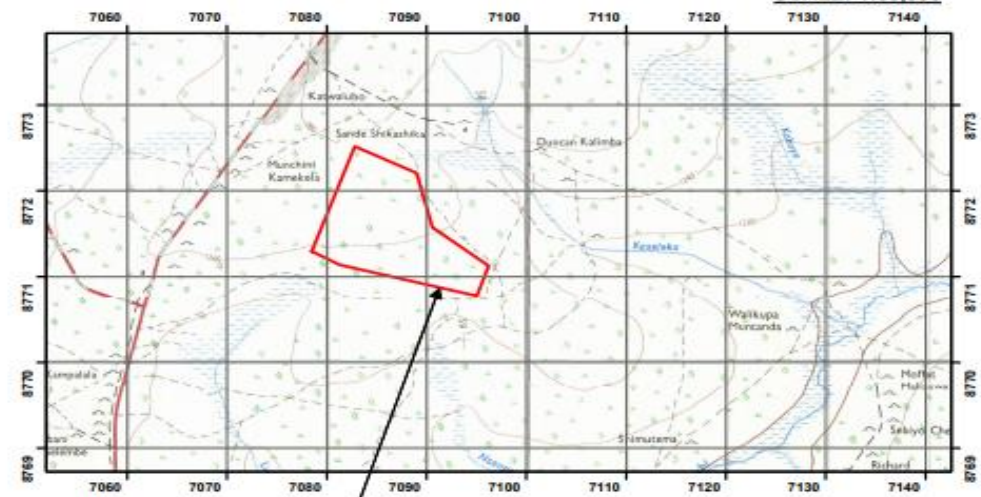
**Project site is near the main highway
between Mansa and Bahati with fairly-light
forest**

Project Site and Location

Mansa Project site is close to a provincial road (M13) making vehicle access easy

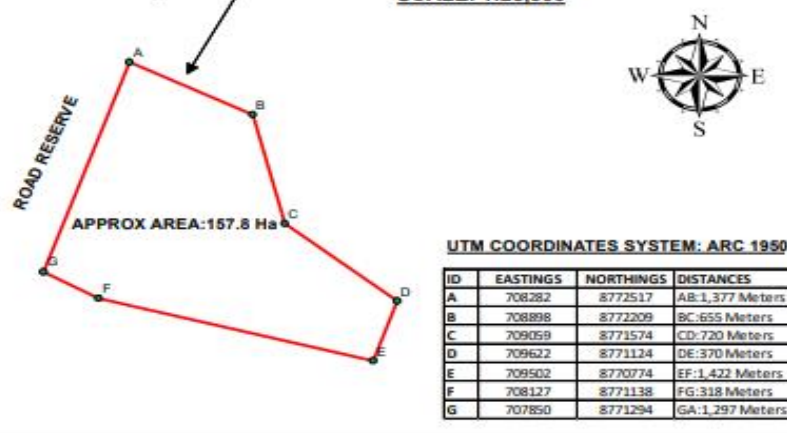
**SITE PLAN DEPICTING THE PROPOSED FARM FOR CGM POWER GROUP LIMITED
LOCATED IN CHIEF CHIMES'S AREA
MANSA-LUAPULA PROVINCE**

**LOCATION MAP
SCALE: 1:50,000**



TOPO MAP REF: 1128 B2

**INSERT SCALE
SCALE: 1:25,000**

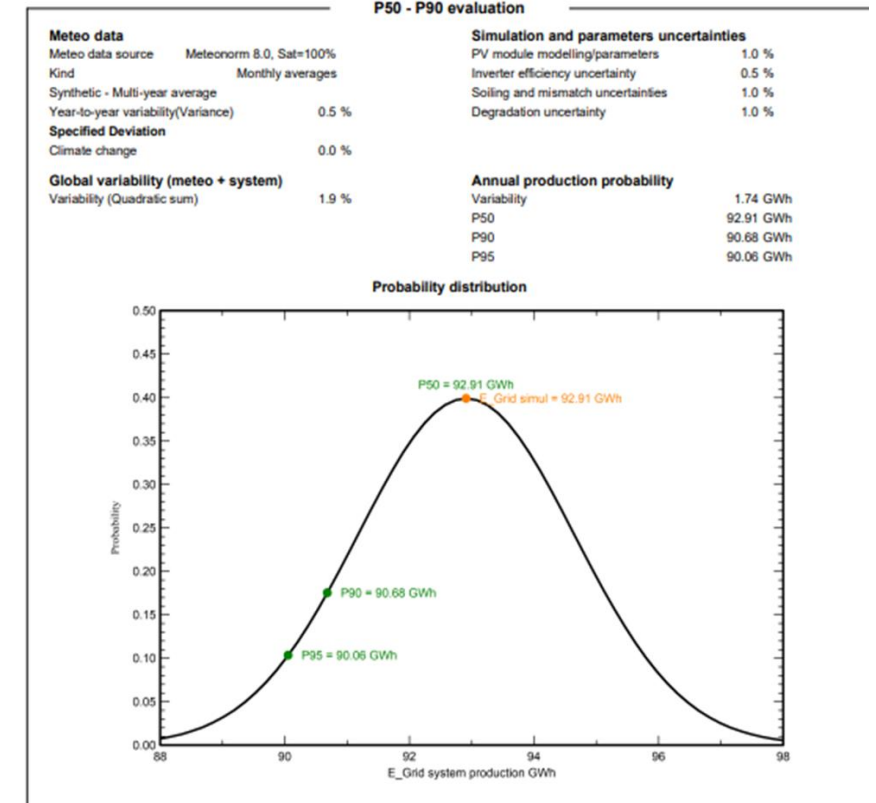
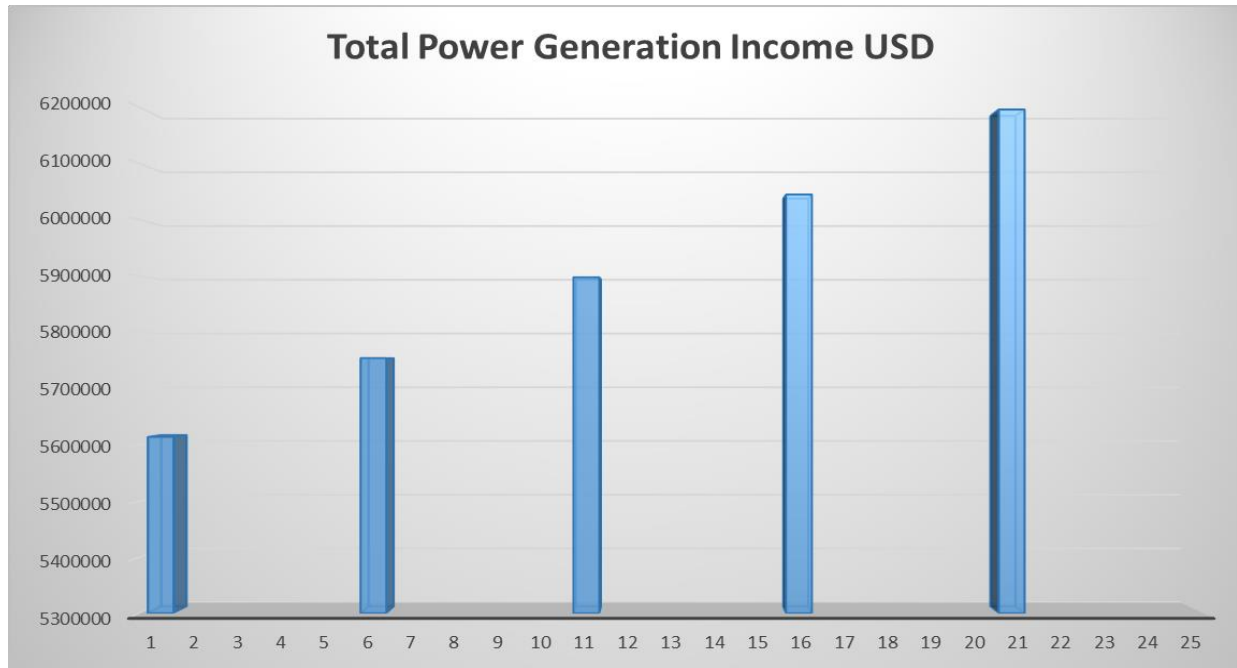


SURVEYED/COMPILED BY TECHNICAL BRANCH DEPARTMENT OF AGRICULTURE



Financial Overview & P50 – P90 Evaluation

- Mansa Power Development Limited (MPDL) is a Solar SPV incorporated by CGM in August 2021. The PV Solar plant has the potential to scale up to 150MW.
- A total of US\$27million is sort for the investment of 25MW in 2023.



- The P-50 figure reflects the average level of generation where the output is depicted to be exceeded 50% over the projects life. Mansa Power Development Limited will yield 92.91GWh at P50.
- The P-90 figure reflects the average level of generation for which the output is depicted to be exceeded 90% over the projects life. Mansa Power Development Limited will yield 90.68GWh at P90.

Board of Directors

60+ years of combined experience



Chabuka J Kawesha, Executive Board Chairman
DBA, MBA, 25 years work experience. Petroleum and Telecom. Arbitrator, Court-Annexed Mediator & Corporate Governance Trainer. Worked for Zamcell / Celtel, Zain, Airtel (15 years). Served Board Chairperson for 4 government agencies and President-Chambers of Commerce in Private Sector.



Ian Townsend, Board Member Consultant, Expert in conceptual designs, conduct due diligence and troubleshooting reviews, and undertake capital equipment market studies. Worked at copper, gold, uranium, tin and nickel plants in Zambia, South Africa, Australia, Brazil and Canada. engaged in philanthropy and community service



Sargunan Gangadharan, Board Member
Diploma Electrical Engineering. More than 30 years of experience and proven abilities in strategic planning, managing projects, installation & commissioning of various electrical equipment. Served GM Simpex Enterprises Limited - Manufacturing 2008 – 2015. Worked for Plastex Packaging Ltd, SOBI Industries Ltd, Pigott Maskew Ltd. Alfred Herbert(India) Ltd.,



Dominic M. Kawesha, Board Member
Electrical / Mechanical B.Eng. Degree. 11 years experience EPC, Commissioning Management, Maintenance and Operations of Copper and Cobalt Ore Processing Plants & Iron Ore Tailings Stacking Systems. Worked for Konkola Copper Mines plc., FLSmidth Zambia, FLSmidth Pty. Ltd. (Australia). CEO Evolve Technical Investments Australia since 2015



Sachin Mangadekar, Board Member
An established professional with over 18 years of experience, possess an integral set of competencies in diverse planning, profitability and cost optimization. Current Operations Director at Acme Point Ltd., Zambia. He is also a Member of the Rotary International Organization.



Chileshe Panta, LLB
Lawyer and Researcher by profession. Holder of a Bachelor's Degree in Law (LLB) from the University of Lusaka (UNILUS) in 2018. Worked at the Kitwe High Court for Zambia as a paralegal in 2017, currently working as Legal and Regulatory Specialist for CGM Power Group Limited.

Board Advisory Team



Oladipo Adewumi, Business Assurance Consultant

An experienced ICT professional, especially in Telecommunication, Energy and Fintech. Has applied his skills as an Operator and a Management Consultant focusing on zero customer impact, risk minimization, revenue maximization and business insights. He has helped several multinational organizations to achieve their set business objectives through his vital contributory works in the areas of Revenue Management, Enterprise IT Governance, Risk, IT Audit, Data analytics, Project Management and Cybersecurity. He holds a degree in Mechanical Engineering; Masterclass training in RA by TAS (Amsterdam), Managing Telecom Fraud & Loss (Telcora, UK), Practitioner certification in PRINCE2 (UK), PMP (PMI, USA) and Certified Information System Auditor (CISA), COBIT.



Seblehiwot Eshetu Worke, Electrical & Computer Engineer

BSc, Electrical & Computer Engineering (Computer Major), Addis Ababa University, Faculty of Technology. Worked as an Intelligent Network Engineer at ZTE Corporation Ethiopian Branch. She holds professional training, hand on experience and certifications in BOSS system from China's Sheng Zheng's ZTE University and Chang Sha's Research and development centers. Other assignments have included sustainability of Vodafone Zambia Billing and IT systems and the Implementation of the Fraud Management System (FMS) inclusive of mediation module for EthioTelecom.



Stephen K. Ndumba, Consultant-Project Development. Business and public policy analyst, program and project development expert. Certificate in electrical and electronics engineering (City & Guilds), 1 year work experience with Mine Stone. 5 years work experience in economic policy research and advocacy with Economics Association of Zambia. Bachelor of Arts Degree (Economic Development) with University of Zambia. Attended trainings in corporate finance, Results-Based Project Management, Monitoring and Evaluation, entrepreneurship, business development proposal writing, cashflow analysis. Currently serving as Project Development Consultant with CGM Power Group.

Other Project Team Members—Youth Driven



Xavier Nsama, Mechanical Engineer

Holder of Bachelors of Engineering (B.Eng) in Mechanical Engineering from the University of Zambia, Has key interest in Alternative Energy Sources and research. Worked at Lusaka Water & Sanitation Company as a graduate intern under their maintenance department. Also worked at ZESCO (Kariba North Bank Power Station) and Zambian breweries. Attached to CGM under the Solar Project Development team.



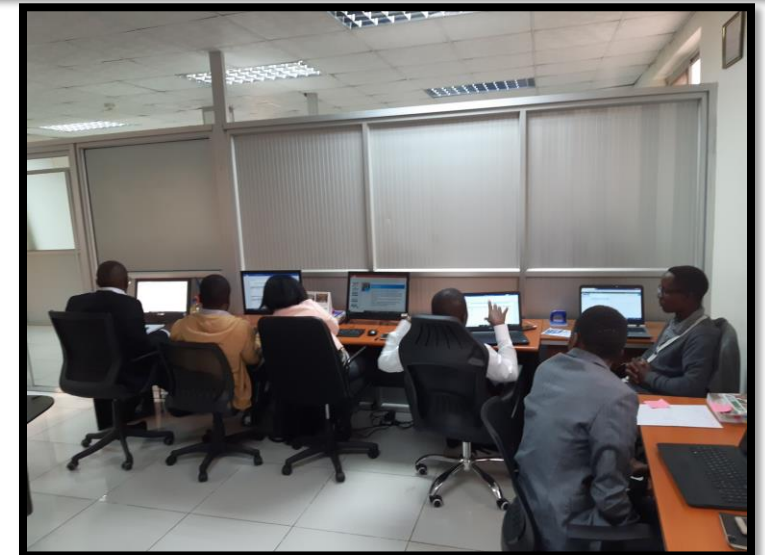
Nchimunya Mweetwa, Business Development and Economic Strategist

A holder of bachelors degree in economics from the university of Namibia. Worked for Mondjila Project and Management as an intern focused on providing assistance on economic recovery programs, project management, cost and risk management. In addition, she was responsible with recording meeting minutes



Bellia M Banda, Business Administration Desk Intern

A holder of a Diploma in Business Administration from the National Institute of Public Administration (NIPA) and a certificate in Power Electrical from St Ambrose in Kafue. Previously interned with Zamtel as a Sales and Distribution consultant



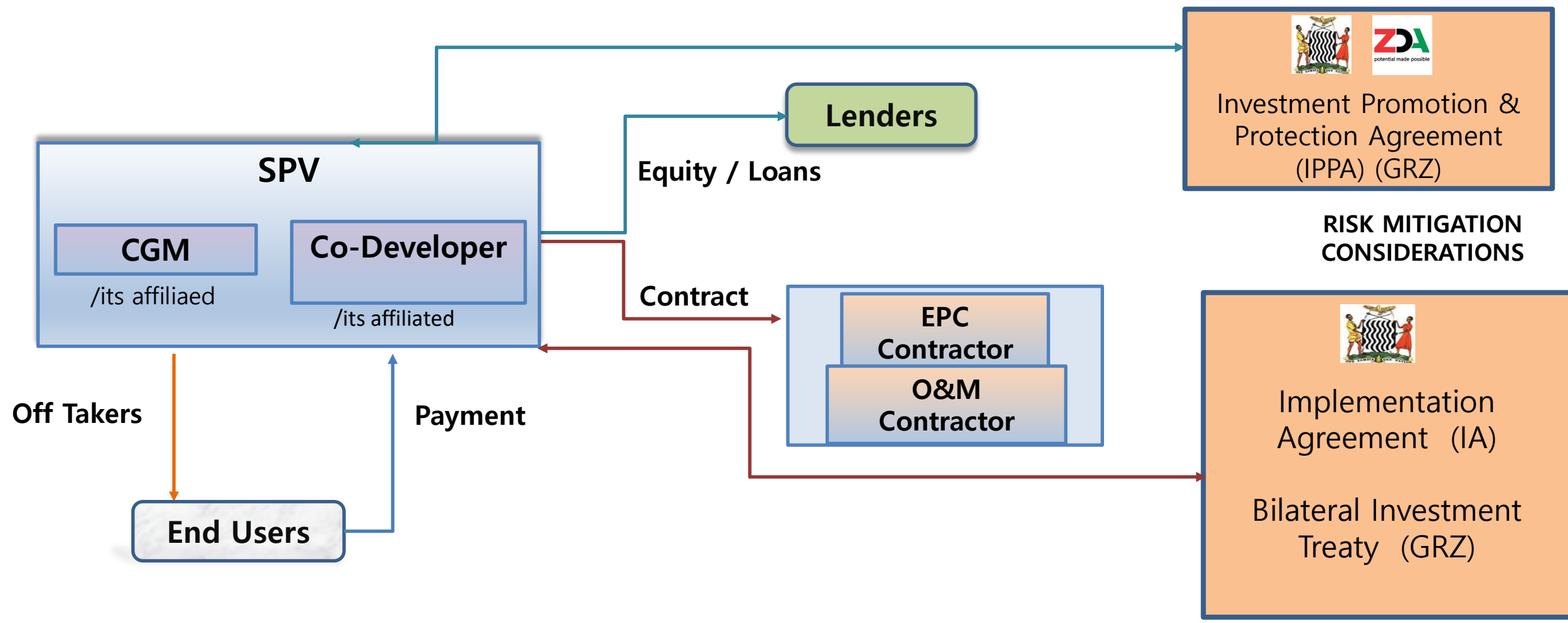
02 Investor Relations

 **MANSA POWER
DEVELOPMENT**

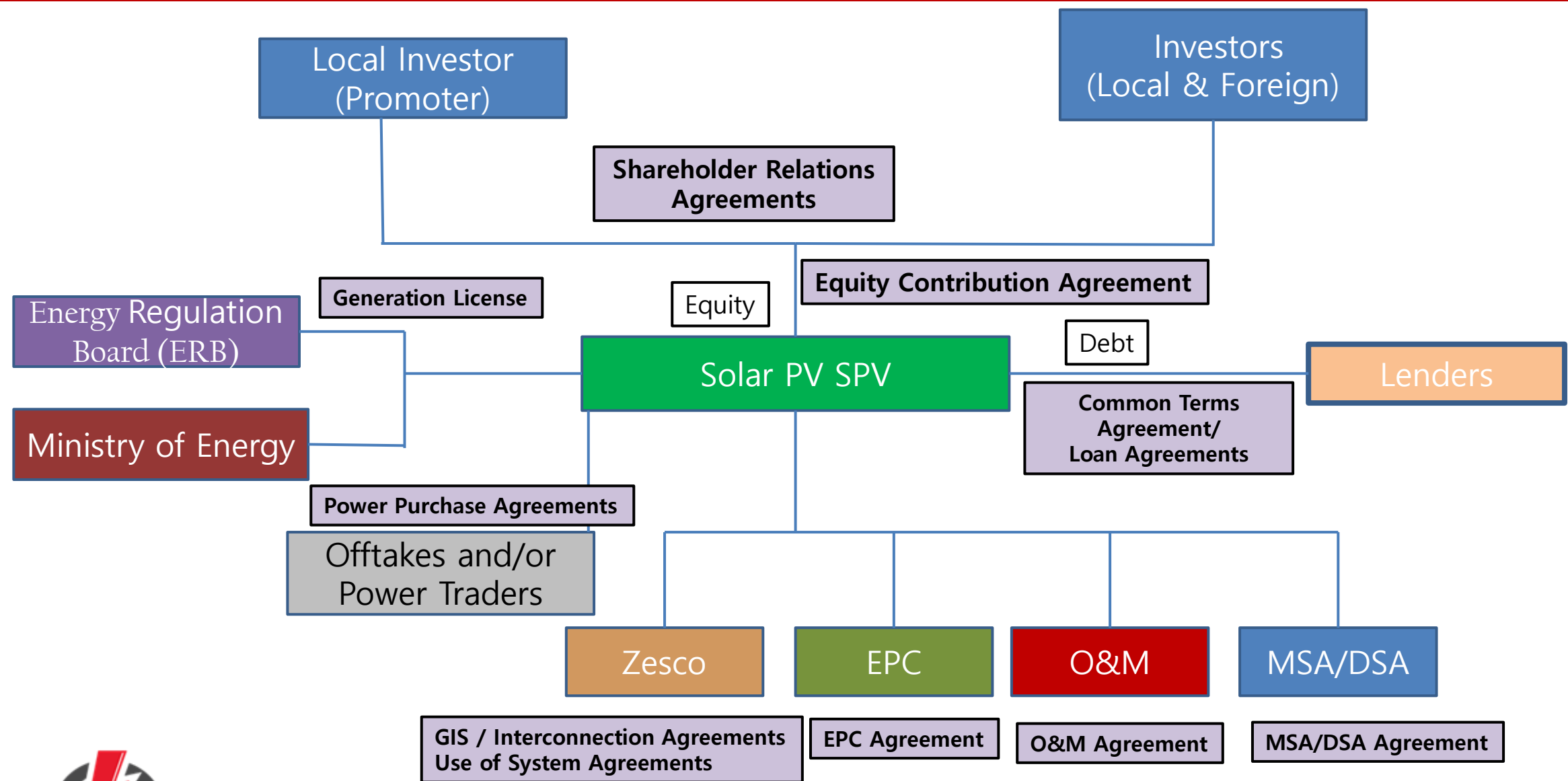


IMPACT INVESTMENT. PURPOSE INVESTMENT

GOVERNANCE AND INVESTOR RELATIONS



Investor Relations – Contractual And Legal Structure



03 Project Activities

 **MANSA POWER
DEVELOPMENT**



IMPACT INVESTMENT. PURPOSE INVESTMENT



**Resettlement Action Plan (RAP)
and Physical & Socio-Economic
activities in Mansa with the
local chief and settlers.**

**Below: ZESCO sub-station.
11Km from Project Site**



MANSA RESETTLEMENT ACTION PLAN (RAP) ACTIVITIES



RAP activities and reports have been concluded with involvement of the local chief and settlers

MANSA SITE VISIT with Government, ZESCO & Other Regulators



CGM POWERGROUP
IMPACT INVESTMENT. PURPOSE INVESTMENT.

June 2022





Senior Government officials in Luapula Province led by Permanent Secretary host CGM, Power Utility company ZESCO and Provincial Planning Department officials. 2022



Senior Government officials in Luapula Province led by Permanent Secretary host CGM, Ministry of Energy, Office for Promoting Private Power Investment (OPPPI), ZESCO and other stakeholders before visiting the Mansa Project Site and the Settlers. May 2022

Mansa Site Visit with the IDC and Council officials. 2020

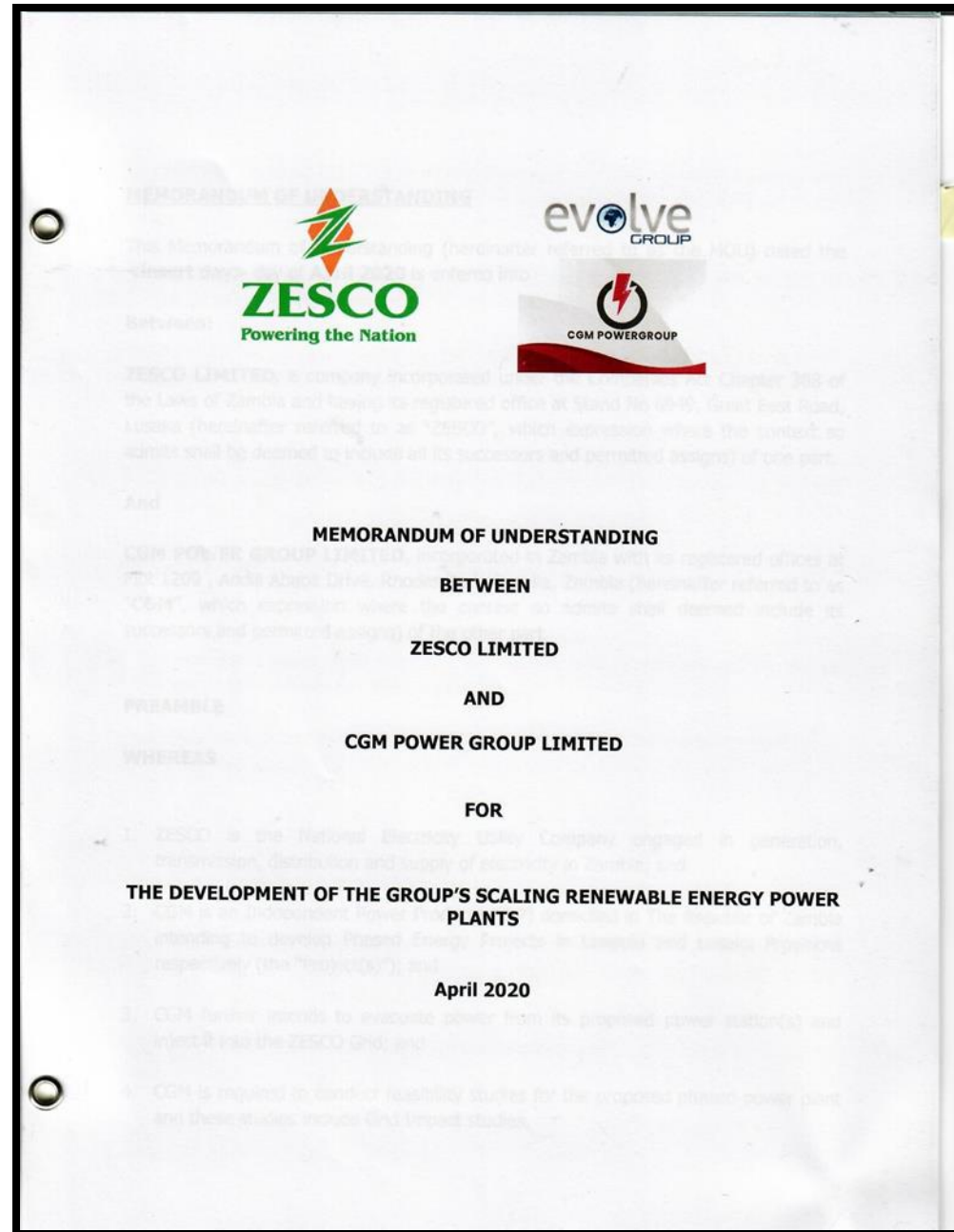




ZESCO Mansa Sub-station

Grid Integration Power Plant

Power Evacuation Point for the MPDL Plant



04 Compliance, Risk Mitigation and Licensing

 **MANSA POWER
DEVELOPMENT**



IMPACT INVESTMENT. PURPOSE INVESTMENT



Investment Promotion & Protection Agreement (IPPA)

Government Republic of Zambia t/a
Zambia Development Agency (ZDA)
and CGM Power Group Limited

September 2021



Licensing Steps for Power Plant

**Obtain EIA Approval
from ZEMA**

**Apply for
Construction
Permit at ERB**

**Proceed to
Construct the
Generation Plant**

**Apply for Operation
Licence to Generate
Electricity with Tenure
of 30 Years**



The Energy Regulation Board ("ERB") is mandated to issue Licences to any person/entity wishing to establish an enterprise in the energy sector by the:

- ▶ The Energy Regulation Act no. 12 of 2019; and
- ▶ The Energy Regulation (Licensing) Regulations 1998, SI No. 2 of 1998.