

# "RENEWABLE ENERGY: C&I, R&D & O&M"

## 2023 IN RETROSPECT



AMER



Alliance for  
Rural  
Electrification  
*Shining a Light for Progress*

*ISO-9001 Certified Company*



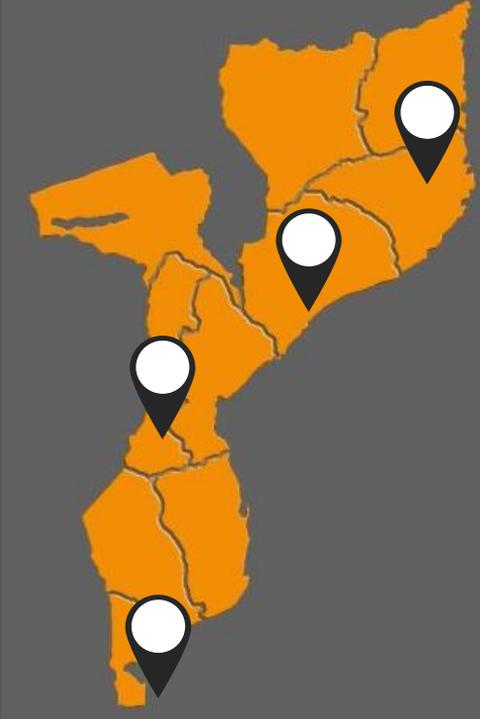
# MATEMO

Manutenção Técnica Moçambique

# COMPANY PROFILE

**MATEMO** is a Mozambican company established in 2008 in Maputo, active in the Energy, Industrial and Healthcare sector, operating throughout the national territory.

In the Renewable Energy sector, **MATEMO** acts since 2011 with the following achievements:



# COMPANY TIMELINE

TIMELINE-2021



MATEMO constitution.  
01/2008

02/2007  
First equipment installation mission in three hospitals in Mozambique. decision to create MATEMO.



03/2010  
Win the first bid in INS-MISAU.

MATEMO's entry into the Renewable Energy Sector  
07/2011



04/2014  
Certified technician in Safety Cabin Validation Biological Class II.

Contract with FUNAE - PC (EPC, Engineering, Procurement and Installation).  
08/2015



07/2017  
Integrated translation management of all staff members National Institute of Health to its new Headquarters in Marracuene.

Project and Construction (EPC) Calanga Photovoltaic Central (72kw/420kwh).  
01/2019



07/2020  
ISO 9001-2015 Certification.

EPC of the Mapulangene Containerization Plant.  
01/2021



05/2022  
EPC of 4 more Containerized Centers.

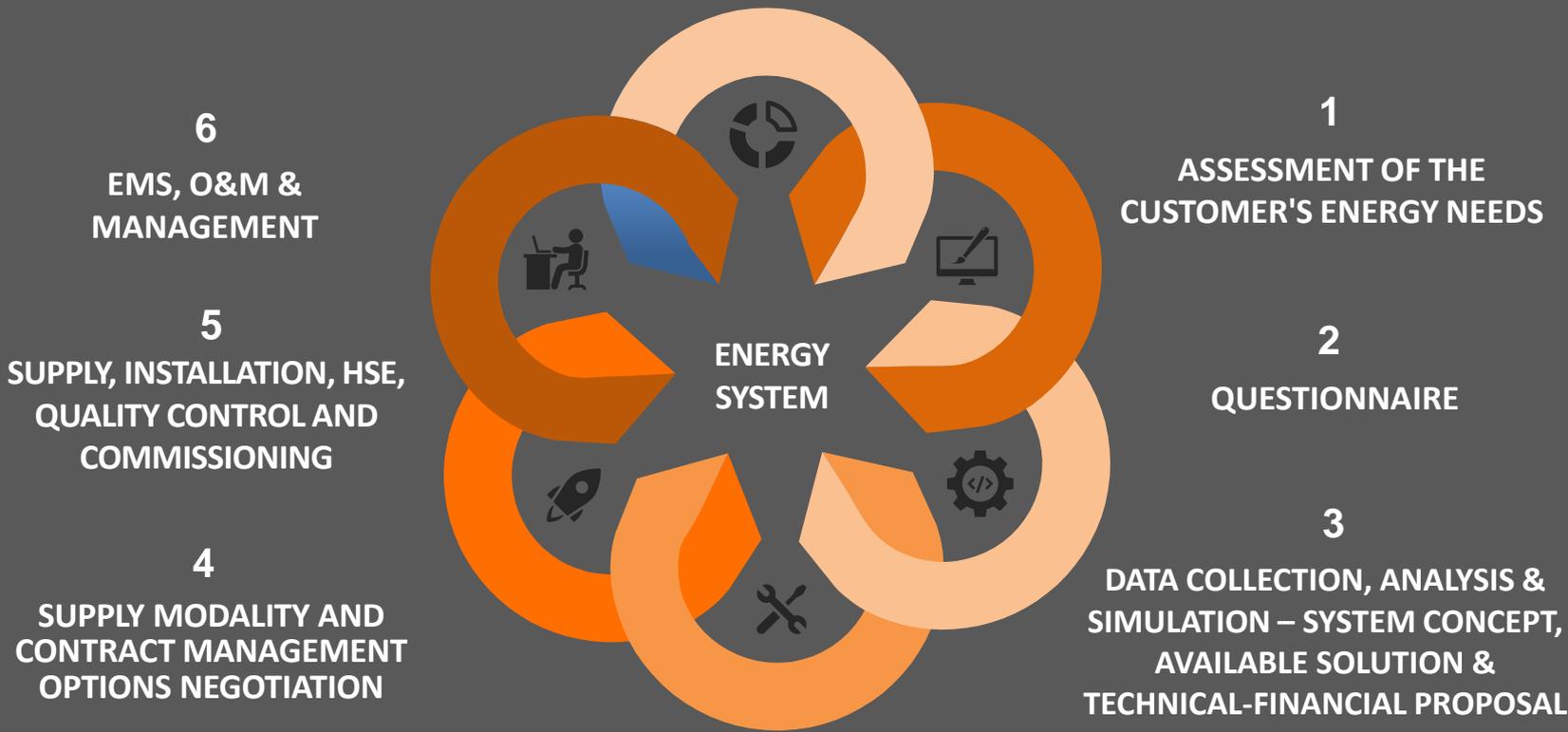
Installation of the first ROOF C&I in the Matola City.  
01/2023



Iluminando os seus dias!



# MATEMO - AN EPC FOR TOTAL QUALITY MANAGEMENT



# OUR PRODUCTS AND SERVICES....

To respond to a total of approximately 23000 GW of Renew Energy potential available in Mozambique, the **MATEMO** is concerned with providing quality services with officially registered and certified equipment.



## CUBEN®

CUBO – Energy Solutions for the home, business, SMEs, telecommunications, micro networks...



## RAKO

RAKO – Energy Solutions for medium industry, commerce and agriculture...



## IPESs®

IPESs® – Energy Solutions for large industry, agriculture, mines, mini networks...



## AD HOC

AD HOC – Solutions for cold rooms, product processing, agriculture, etc..



## O&M

O&M– commissioning, validation and controland SPV (IEC62446 standard)...

# SOME PROJECTS

Chintolo photovoltaic plant



Mapulanguene photovoltaic plant



Calanga photovoltaic plant



Urban and Rural Petrol Stations



In 2003 Matemo besides continuing its involvement in mini-grids & stand alone, hybrid and off-grid systems, subsector worked on:

- A C&I Project
- A 2-year O&M contract to run a 11.2MWp PV Plant
- R&D for “mini”-production in Mozambique

# C&I PROJECT AT A MALL



*By Enteria Mozambique*

# O&M AT BALAMA MINE

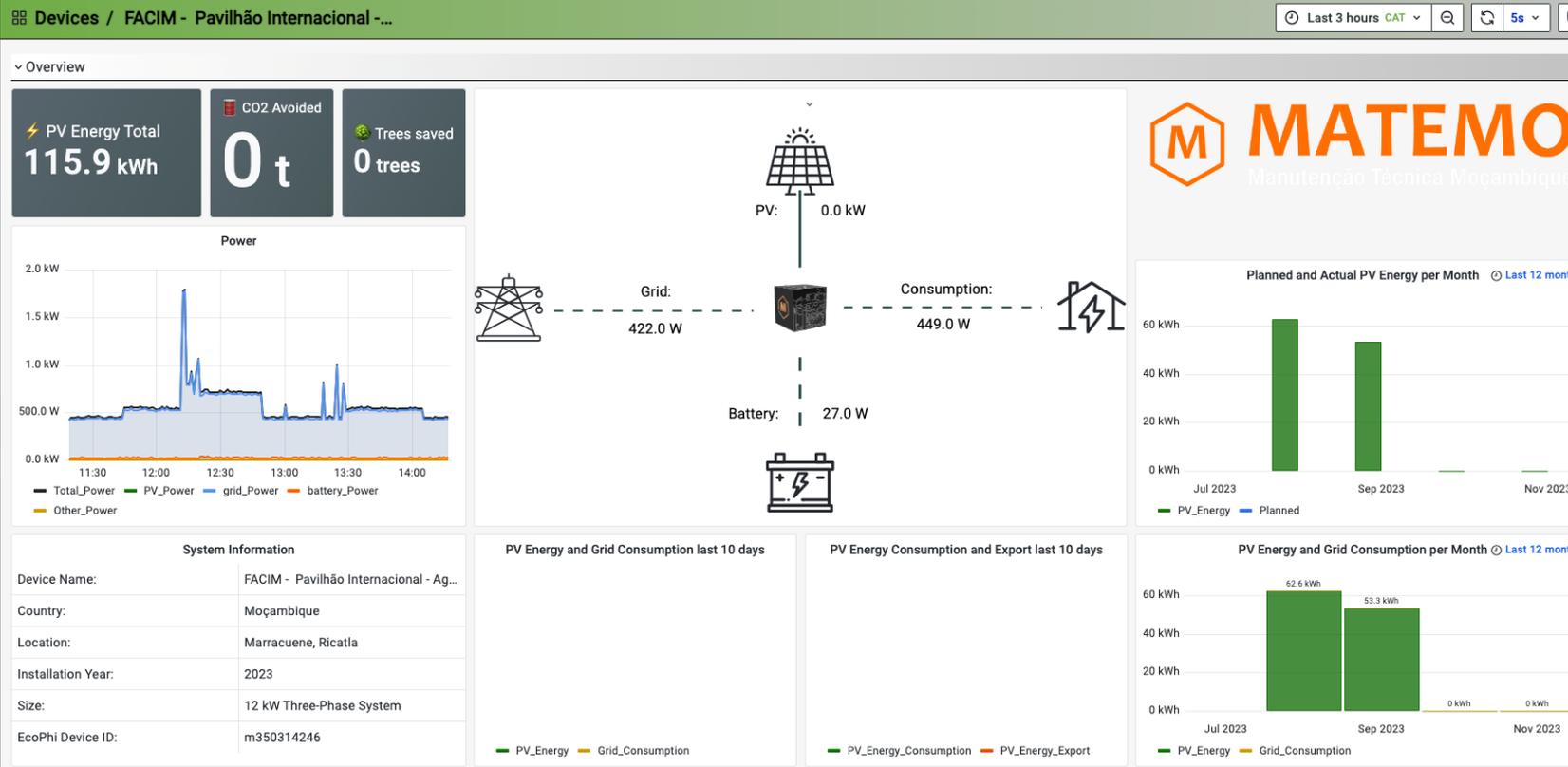


By Bonatti-ENH



# O&M & MATEMO REMOTE MONITORING/PORTAL

Powered by EcoPhi



# R&D: CUBEN & IPESS ASSISTED BY ACAD-AEC & ERP SYSTEMS



Autodesk AutoCAD 2020 Drawing1.dwg | Type a keyword or phrase | a.sande@R2OP | 14 | Enrico Nunziata

FR.Q.MT\_007

**FINANÇAS** Dashboard Painel Clientes Fornecedores Despesas Contabilidade Relatórios Configuração

Budgets | Analytic Account: R&D x | Procurar...

▼ Filtros Agrupar por Favoritos 1-12 / 12 <>

Budgetary Position	Analytic Account	Start Date	End Date	Planned Amount	Practical Amount	Theoretical Amount	Achievement
<input type="checkbox"/> DESPESAS - Administrativas	R&D2302 - CONSTRUÇÃO IPESS - MATEMO, LDA	01-07-2023	31-10-2023	300.000,00	0,00	300.000,00	0,00
<input type="checkbox"/> EQUIPAMENTO - Sistema Monitorização	R&D2301 - PROTÓTIPO CUBO ENERGETICO - MATEMO, LDA	02-05-2023	15-05-2023	65.000,00	0,00	65.000,00	0,00
<input type="checkbox"/> EQUIPAMENTO - Baterias	R&D2301 - PROTÓTIPO CUBO ENERGETICO - MATEMO, LDA	06-04-2023	24-04-2023	100.000,00	0,00	100.000,00	0,00
<input type="checkbox"/> EQUIPAMENTO - Outro Material	R&D2301 - PROTÓTIPO CUBO ENERGETICO - MATEMO, LDA	03-04-2023	10-04-2023	250.000,00	0,00	250.000,00	0,00
<input type="checkbox"/> MATERIAL - Estrutura	R&D2301 - PROTÓTIPO CUBO ENERGETICO - MATEMO, LDA	10-04-2023	28-04-2023	15.000,00	0,00	15.000,00	0,00
<input type="checkbox"/> MATERIAL - Electrico	R&D2301 - PROTÓTIPO CUBO ENERGETICO - MATEMO, LDA	03-04-2023	24-04-2023	21.500,00	0,00	21.500,00	0,00
<input type="checkbox"/> EQUIPAMENTO - Outro Material	R&D2301 - PROTÓTIPO CUBO ENERGETICO - MATEMO, LDA	03-04-2023	10-04-2023	250.000,00	0,00	250.000,00	0,00
<input type="checkbox"/> MATERIAL - Electrico	R&D2301 - PROTÓTIPO CUBO ENERGETICO - MATEMO, LDA	03-04-2023	24-04-2023	21.500,00	0,00	21.500,00	0,00
<input type="checkbox"/> MATERIAL - Estrutura	R&D2301 - PROTÓTIPO CUBO ENERGETICO - MATEMO, LDA	03-04-2023	24-04-2023	21.500,00	0,00	21.500,00	0,00
<input type="checkbox"/> EQUIPAMENTO - Sistema Monitorização	R&D2301 - PROTÓTIPO CUBO ENERGETICO - MATEMO, LDA	03-04-2023	10-04-2023	250.000,00	0,00	250.000,00	0,00
<input type="checkbox"/> EQUIPAMENTO - Baterias	R&D2301 - PROTÓTIPO CUBO ENERGETICO - MATEMO, LDA	03-04-2023	24-04-2023	21.500,00	0,00	21.500,00	0,00
<input type="checkbox"/> DESPESAS - Banco	R&D2302 - CONSTRUÇÃO IPESS						

Projetos / R&D2301 - PROTÓTIPO CUBO ENERGETICO / Atualizações de Projeto

Procurar...

▼ Filtros Agrupar por Favoritos 1-1 / 1 <>

0 Tarefas | 14 Pedidos de Compra | 12 Faturas de Fornecedor | Burndown Chart

0 Colaborador...

**Em Dia** | 0% Progresso | 16-03-2023 Dados

Enrico Nunziata

**Conhecimentos**  
(conhecimentos específicos necessários para o processo)

Conhecimento do software utilizado para o desenvolvimento do projecto/desenhos

Elaboração: Árius Sande/Enrico Nunziata

- 003 - Proposta Méd
- 003 - Battery Rack
- 004 - Inverter Exhau
- Families
- Annotation Symbols

Properties

Sheet

Sheet: Interior Elevation

Graphics

Visibility/Graphics Ove...

Scale

Identity Data

Dependency

Referencing Sheet

Referencing Detail

Current Revision Issued

Current Revision Issue...

Current Revision Issue...

Current Revision Date

Current Revision Descr...

Current Revision

Approved By

Designed By

Properties help

Click to select, TAB for altern

**Rentabilidade**

Custos	Billed	To Bill	Esperados
Pedidos de Compra	-160.396 MT	-3.120 MT	-163.516 MT
<b>Total</b>	<b>-160.396 MT</b>	<b>-3.120 MT</b>	<b>-163.516 MT</b>
Margem	-160.396 MT	-3.120 MT	-163.516 MT

**Milestones** ADICIONAR MILESTONE

Track major progress points that must be reached to achieve success.

# R&D: PROTOTYPE P&P BUILT AND TESTED



# YEAR 2023 SOME FINAL OBSERVATION

After a further year of operation in the Renewable Energy Sector in Mozambique we can observe:

- An increasing interest in the sector by everyday actors like Schools, Commercial Entities, Industries, Private Household, Institutions, etc.;
- An increasing request of proposal with different financial solutions (Leasing, PPA, pay-as-you-go, cash on hand) but still doubts on the new regulations and how to best take advantage of it;
- The need to separate “needs assessment” process/aspect from the actual installation technical and financial solutions proposal;
- Few, if no, incentives for the laymen and private entities to move to renewable (import duties voided, tax cut, VAT, etc.).



**MATEMO**  
Manutenção Técnica Moçambique



# THANKS

ENERGY | INDUSTRY | HEALTHCARE

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