

# **AGENDA**

- Introduction of Perimeter security solution?
- What is Electric Fence
- Electric Fence Demonstration
- Q&A

### Introduction

- What are Perimeter Security Solutions?
  - Perimeter security refers to measures taken to protect the boundary or perimeter of a property, facility, or area.
  - These solutions play a crucial role in safeguarding against unauthorized access, theft, vandalism, and other security threats



# Types of Perimeter Security Solutions

- 1. Video Surveillance (CCTV)
- 2. Access Control
- 3. Fiber Optic Detection
- 4. Intrusion Alarm
- 5. Electric Fence



# 1. Video Surveillance (CCTV)

• Video surveillance, commonly known as Closed-Circuit Television (CCTV), involves the use of cameras to monitor and record activities within a defined area.

#### Key Points:

- Provides real-time monitoring and recording of video footage.
- Deters criminal activity and assists in investigations.
- Commonly used in public spaces, commercial buildings, and residential areas.
- Modern systems include features like motion detection, facial recognition, and remote access.



### 2. Access Control

• Access control systems manage entry and exit points to secure areas. They regulate who can enter based on credentials (such as key cards, biometrics, or PIN codes).

#### • Key Points:

- Enhances security by restricting unauthorized access.
- Commonly used in office buildings, data centers, and restricted zones.
- Types include card-based access, biometric scanners, and turnstiles.
- Integrates with other security systems for comprehensive protection.



# 3. Fiber Optic Detection

• Fiber optic detection systems use optical fibers to detect disturbances along perimeters (fences, walls, or underground).

#### • Key Points:

- Sensitive to vibrations, pressure changes, or disruptions.
- Ideal for large outdoor areas, critical infrastructure, and military installations.
- Alerts security personnel when an intrusion occurs.
- Immune to electromagnetic interference and weather conditions.



### 4. Intrusion Alarm

• Intrusion alarms detect unauthorized entry by triggering an alarm when sensors (motion detectors, door/window contacts) are activated.

#### Key Points:

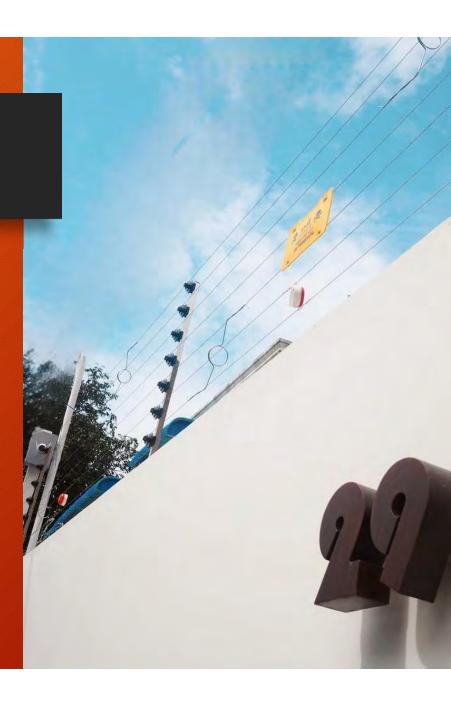
- Provides immediate alerts to security personnel.
- It can be wired or wireless.
- Commonly used in homes, businesses, and warehouses.
- Integrates with monitoring centers for rapid response.



## 5. Electric Fence

• Electric fences use electrified wires or conductive materials to create a barrier.

- Key Points:
  - Deters intruders through electric shocks.
  - Can be standalone or integrated with other security measures.
  - Requires proper signage and safety precautions.



# Electric Fence

- Two Type of Electric Fences
  - Lethal Electric Fence
  - Non-Lethal Electric Fence

### Electric Fence Benefit in D

- Deflection Would-be intruders will be deflected to some targets.
- Deterrence The safe, powerful JVA shock is a strong deterrent to intruders.
- Delay The physical barrier will delay an intruder; something they do not like.
- Detection The JVA's voltage monitor warns you of any tampering with the fence.
- Deny A well-erected electric security fence will deny entry.
- Dependable 60 seconds a minute, 60 minutes an hour, 24 hours a day, 365 days a year, your JVA electric security fence is monitored by an alert, sober, electronic watchman.

### What is electric fence?

- The electric fence is a physical and psychological barrier to deter animals or people with high voltage pulsed shock.
- A pulsed electric current (One pulse per 1.2 sec)
- short, sharp but safe shock
- Sufficiently memorable shock
- Because the electric fence is a psychological barrier, it does not require great strength to be effective



# Electric Fence Advantage

- 50% Less expensive to build
- Easily constructed
- Low Maintenance (Depend on surroundings)
- Lightweight and portable
- Durable due to low physical contact
- Easily modified or expanded
- Keep animals in and predators out

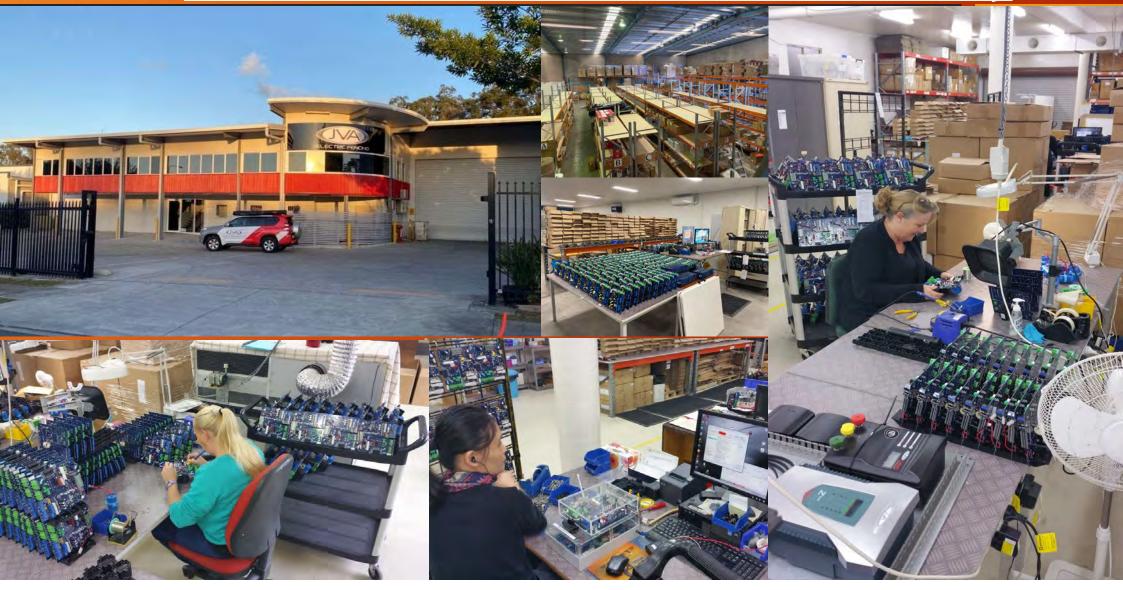
# BREAK 15 Mins

### JVA Introduction

- Australia registered company and partnering with Ndlovu
   Fencing (South Africa) to supply electric fences worldwide
- Together with JVA and Ndlovu Fencing, they become a leader of the security fence.
- Along with JVA and Ndlovu Fencing, they are in the electric fence business for more than 40 years
- JVA's global partnerships enable it to combine award-winning Australian engineering design expertise with local South African, cost-effective, assembly and accessory manufacture.

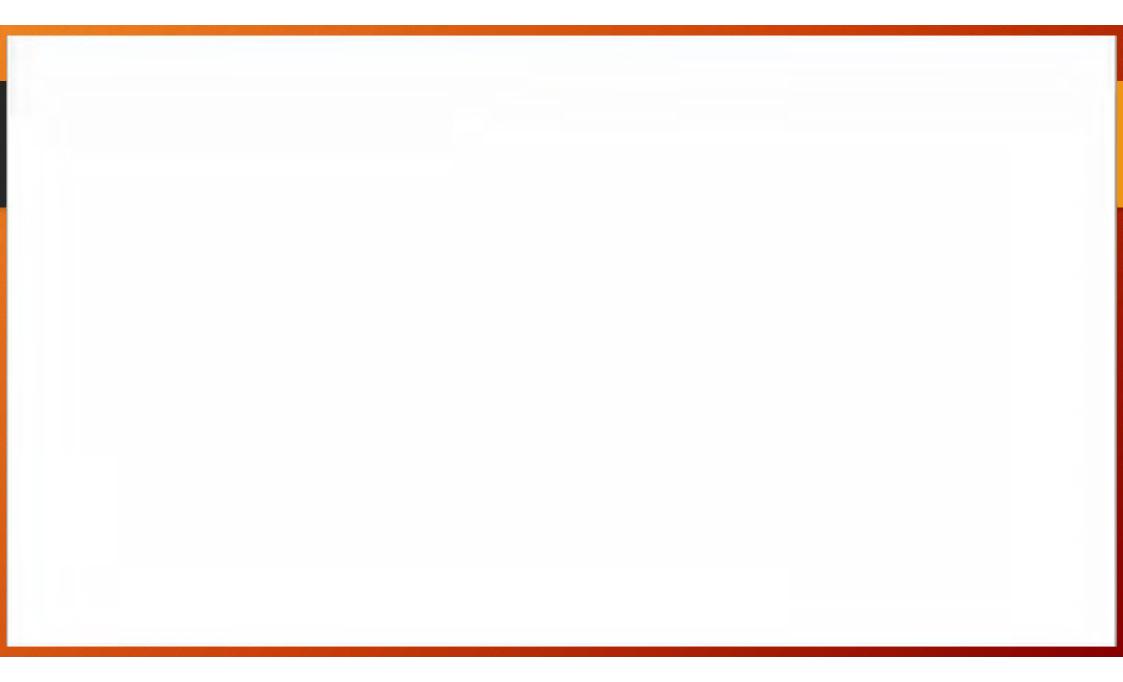


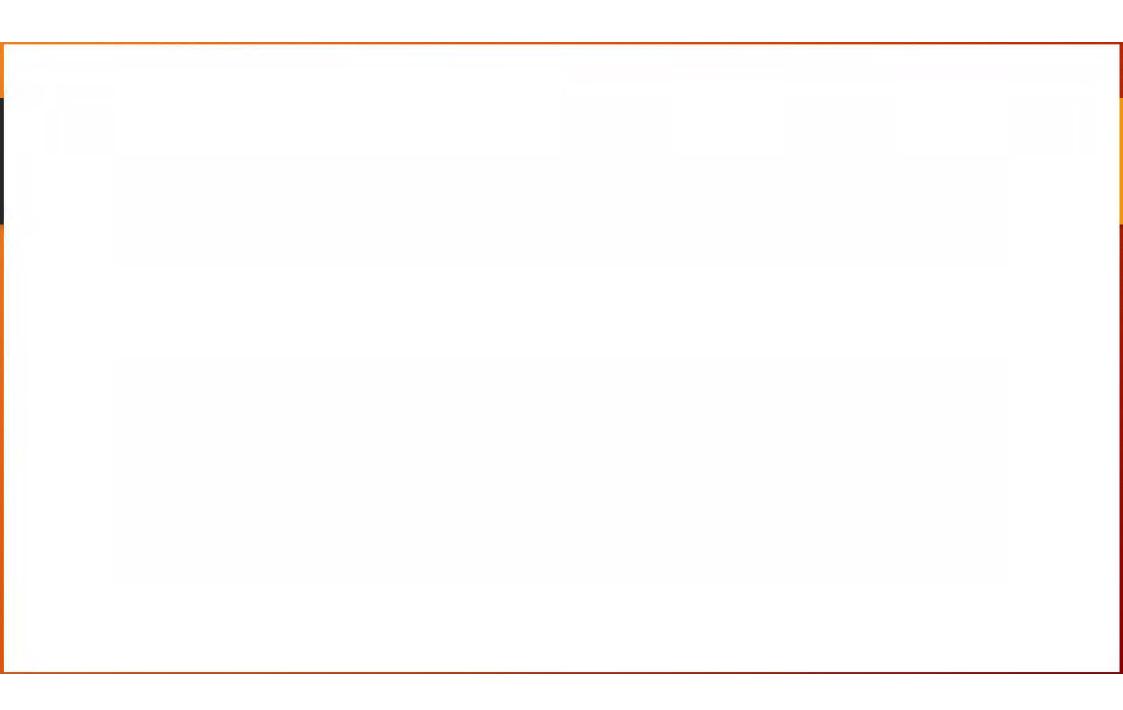
# Pakton JVA Australia Production Facility



# JVA Shows









# JVA z14 energizer

Storage Energy

Maximum Output Energy - 5 J

Output Voltage Maximum

Series Wire Length

Battery Voltage

Average Current Draw

Peak Current Draw

Pulse Width

Pulse Current

- 9.9 KV

- 1 km

- 12 V

- 550 mA

- 600 m

- 0.3ms

- 1.32s



# Electric Fence Basic Component

- 1. JVA Z14 5J Energizer
- 2. Lighting Divider
- 3. LCD 4L Keypad
- 4. WIFI Gateway
- 5. Power Supply



#### Overview:

The JVA Dual Channel Lightning Diverter is the must have device when installing Z-Series Energisers in lightning prone areas. It provides protection for the Energiser on both the Feed and Return fence wires ensuring a lightning strike on, or near the fence, is safely diverted to Earth. Its two stage protection can withstand a lightning surge of up to 2000 Amps limiting the voltage to the Energiser to an acceptable 15kV.

#### Features:

- · Feed and Return wiring protection
- · Affordable sacrificial security component
- · One Diverter required for most installations
- · Provides a highly visible indication of a lightning surge
- · Large sturdy terminals for solid under-gate wiring

#### Specifications:

Protection Level		3kA surge*
Size	Height: Width: Depth:	135 mm 128 mm 40 mm
Weight	Product: Packed:	230 g 255 g



# Dual channel lightning diverter



#### Operates with:

All PTE1xxx Pakton Security Energisers.

#### **Features List:**

- Enables arm / disarm of the energiser, or a single zone, by key chain fob remote control
- 2 remote controls included
- Uses digital rolling-code algorithm to uniquely and securely couple to remote controls
- Operates between 315 433.92MHz
- 50 100 metres range
- Easily connected and configured



# Remote control for energizer



Stainless steel wire 316 grades

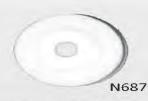
#### Intermediate Insulators



Plastic 10mm Round Bar Bobbin **UV Stabilized Plastic** 



**Gate Strain and** Combi Bobbin **UV Stabilized Plastic** 



Porcelain Bobbin Fire-proof



**Large and Small GFT Bobbin** Glass Fibre, DMC Fire Resistant



**Export Nail-On UV Stabilized Plastic** 



Nail-On **UV Stabilized Plastic** 



Y-Standard **UV Stabilized Plastic** 



**JVA Y-Standard UV Stabilized Plastic** 



Flat Bar Bobbin **UV Stabilized Plastic** 



Anti-Twist Flat Bar Bobbin **UV Stabilized Plastic** 



Pop-Em 19 - 25mm **UV Stabilized Plastic** 



HD Pop-Em 25 — 55mm **UV Stabilized Plastic** 



N521 **GFT Buzz Bar UV Stabilized Plastic** 



N692 Palisade Bobbin **UV Stabilized Plastic** 



**Ring Insulator LD** 



Ring Insulator HD Square tube or Wall-mount screws supplied separately

# **Insulators**

# **Strain Insulators**



N679



N678



N681



N676

Jumbo
Plastic Strain

**UV Stabilized Plastic** 

Jumbo Strain Security
Hardened plastic for
higher tensioning

**GFT Strain**Glass fibre, DMC
Fire Resistant

Porcelain Bullnose Strain Fire-proof

### **Tensioners**

#### **Wall-Top Wire Tentioners**

(1mm - 1.6mm wire)



N784



N791B

#### **Security Spring**

304 Stainless Steel and Nylon



N769QR

# **Compression Nylon Spring**

304 Stainless Steel



#### Mini Donza

Galvanized or 304 Stainless Steel



N785

#### JVA Mini Nylon Tweaker

Ideal for coastal installations



N795

#### Midi Tweaker

Nylon flush-mount for walls and square tube



N794

#### Mini Tweaker Combo

304 Stainless Steel and Nylon



N797

#### Midi Hook Tensioner

Nylon 1mm - 1.6mm wire

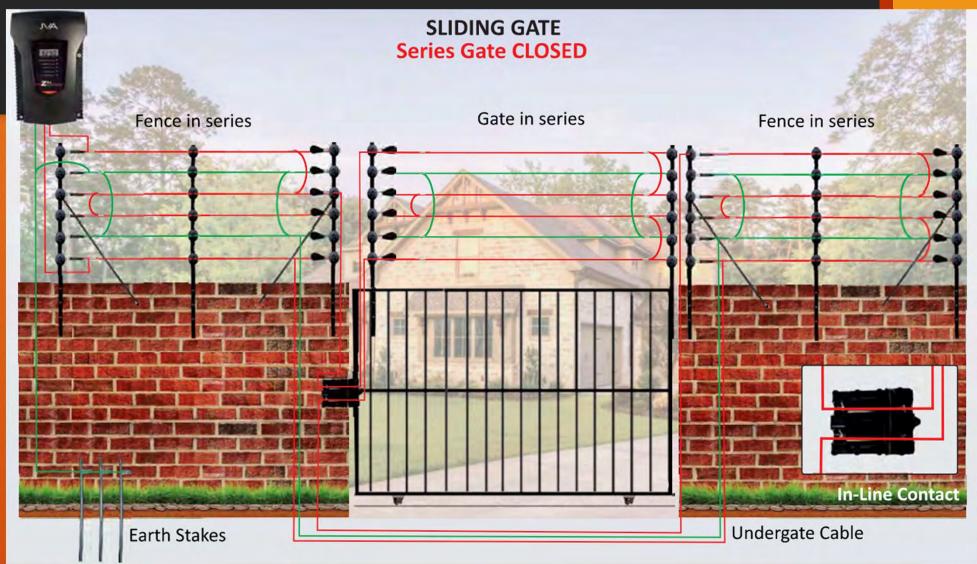


N786

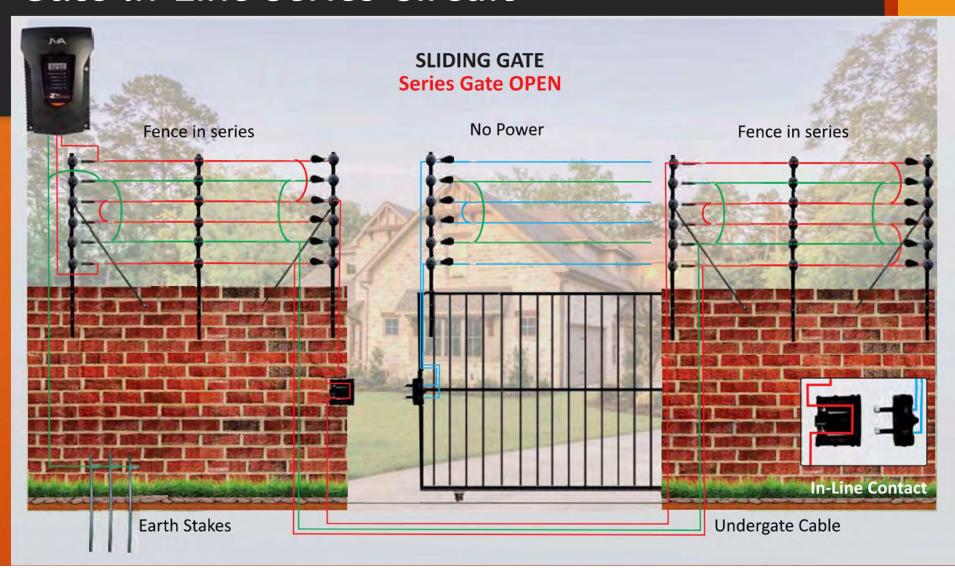
#### Maxi Tweaker

Strong Nylon quad securing tensioner 1.6mm - 2.2mm wire

# Gate In-Line Series Circuit



# Gate In-Line Series Circuit



# **JVA Electric Fence Management Devices**

#### **JVA Directional Volt Meter**

The JVA Electric Fence Fault-Finder is a 3-in-1 tool designed to display fence voltage, current and lead the user quickly to the location of the fault on an electric fence.

#### **Features**

Built-in voltage and current meters with digital screen display

Simple-to-use, one-touch operation

No wires or clips means no tangles or shocks

Brightly illuminated arrows indicate fault direction

Automatic pulse polarity recognition – will operate accurately with any brand of energizer

Gives low battery warning if the battery needs replacing

Positive location gives more accurate and steady current readings

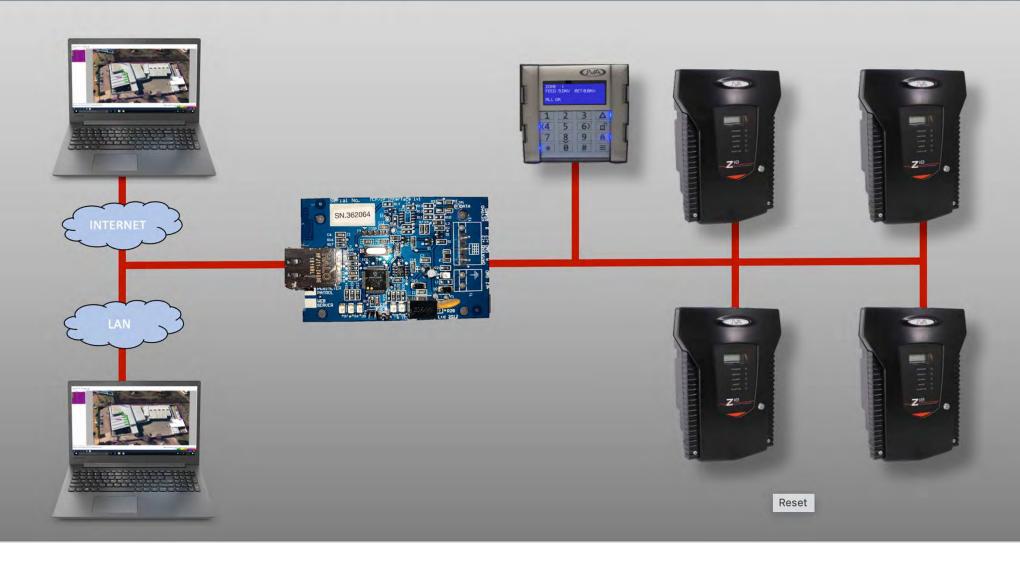
Can be used in all weather

Is made to withstand tough environments



### **MULTIPLE ENERGIZER SYSTEM**



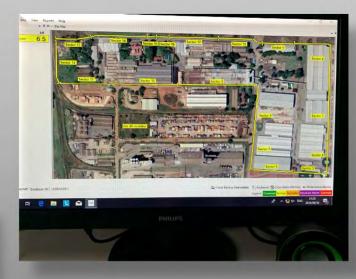


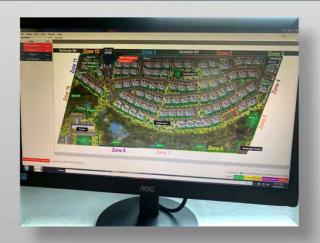
## PERIMETER PATROL SITES

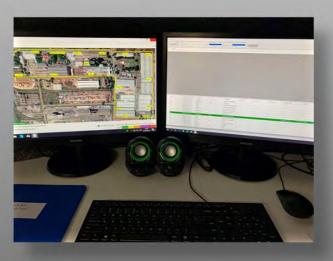


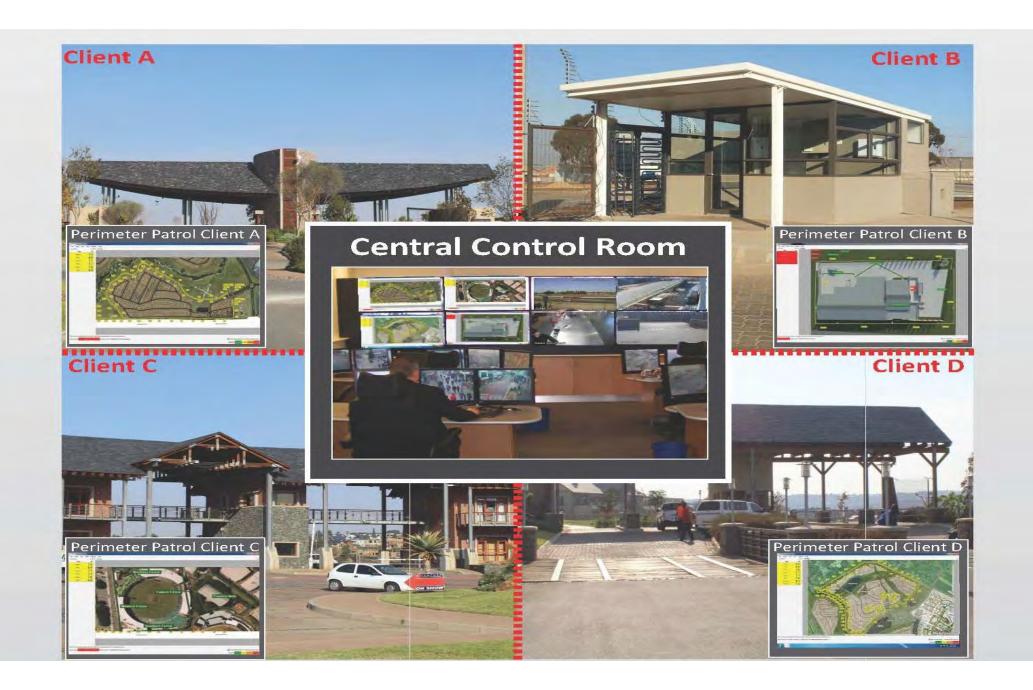










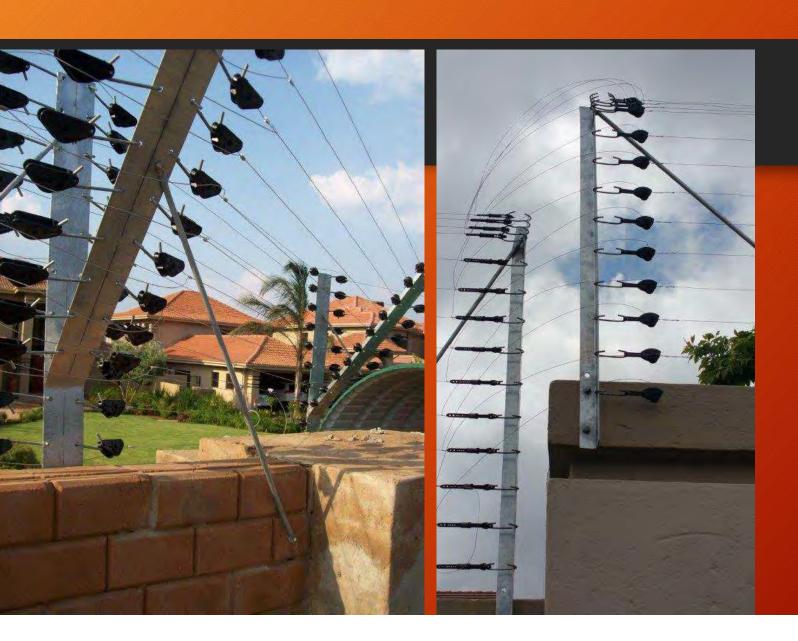


# ELECTRIC FENCE INSTALLATION

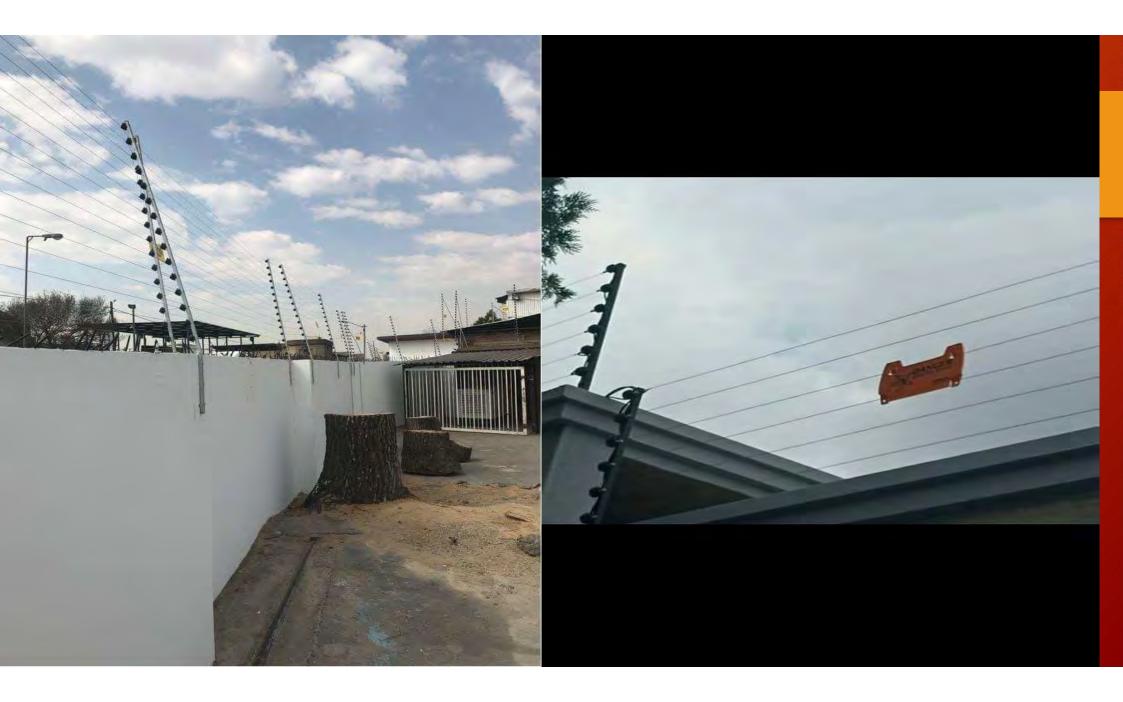




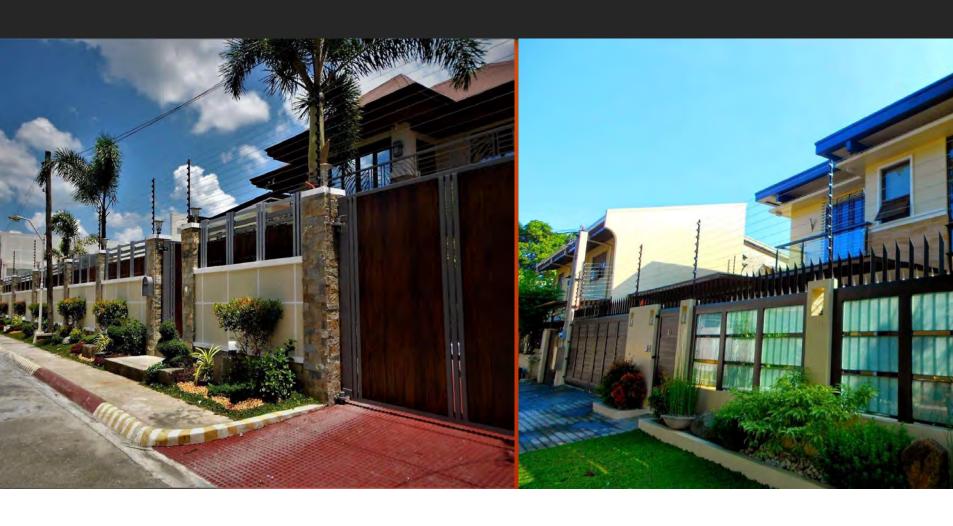




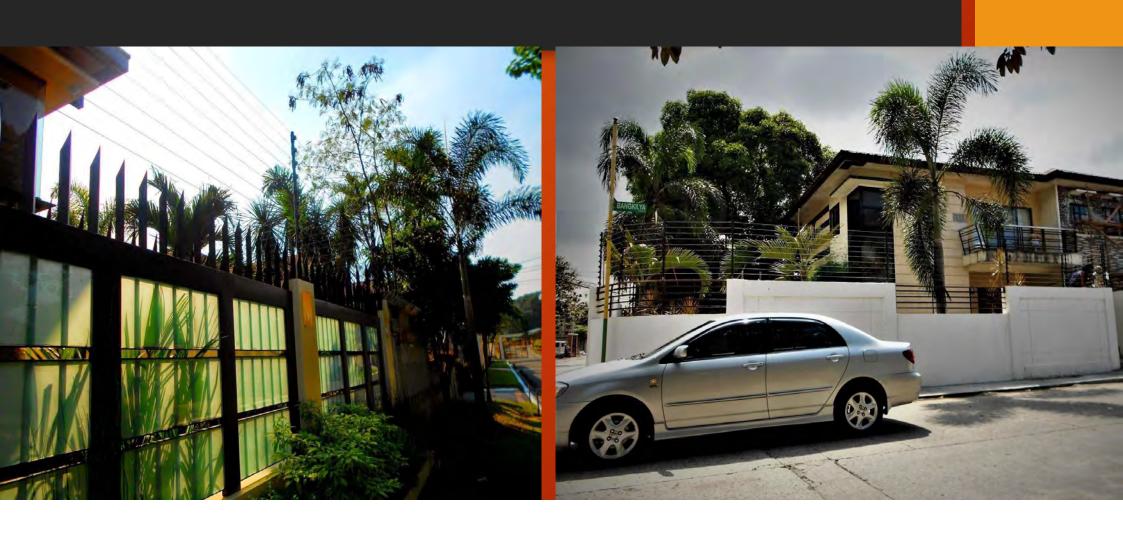




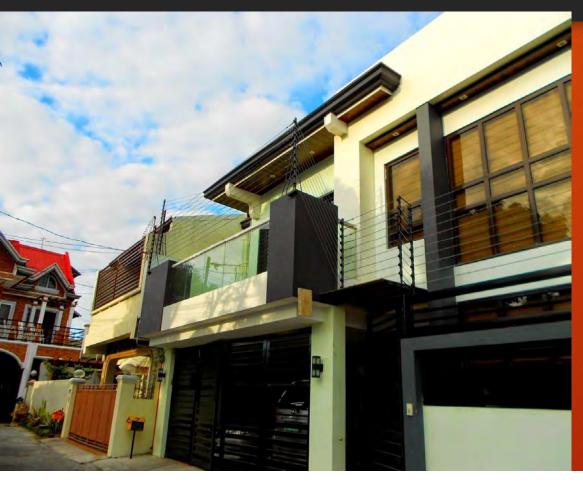
# Electric Fence Installation (GLOBAL)



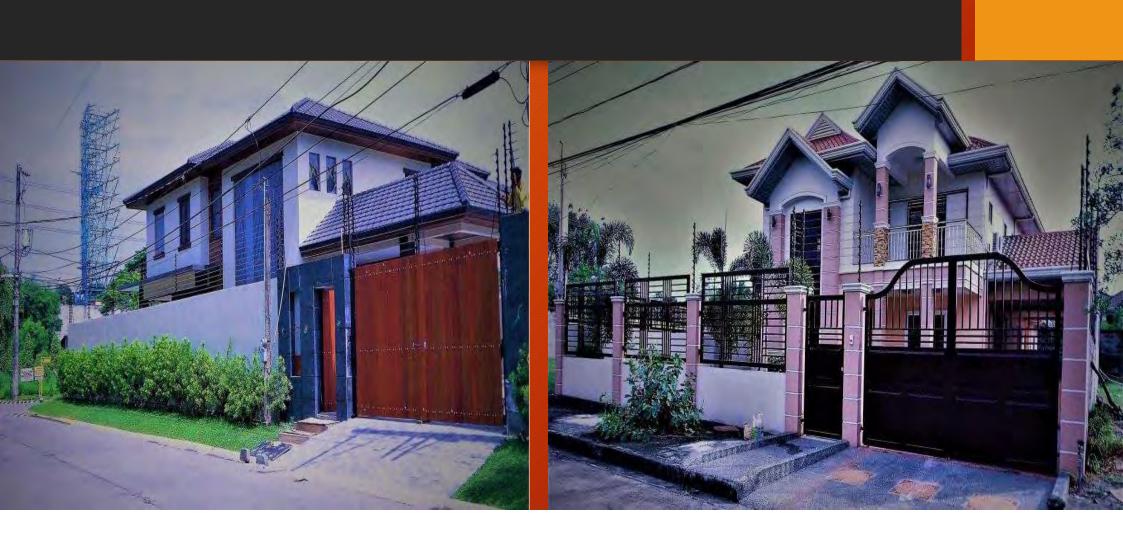
## Electric Fence Installation (GLOBAL)



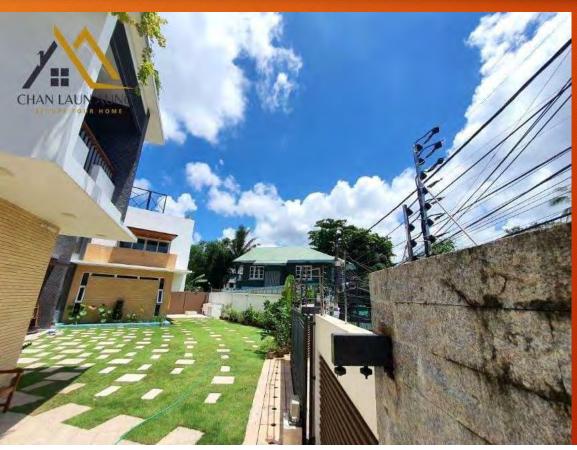
## Electric Fence Installation (GLOBAL)



















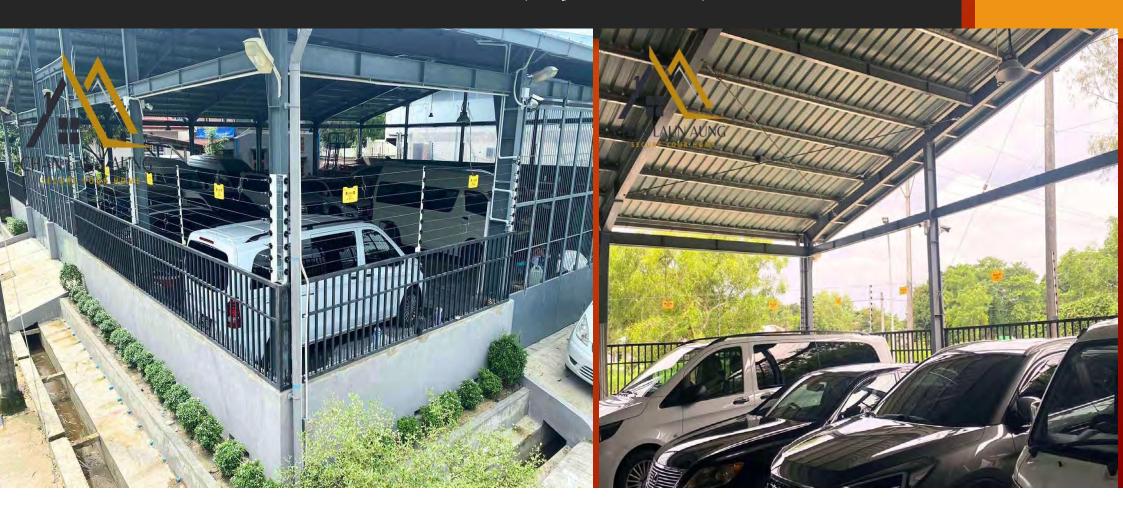




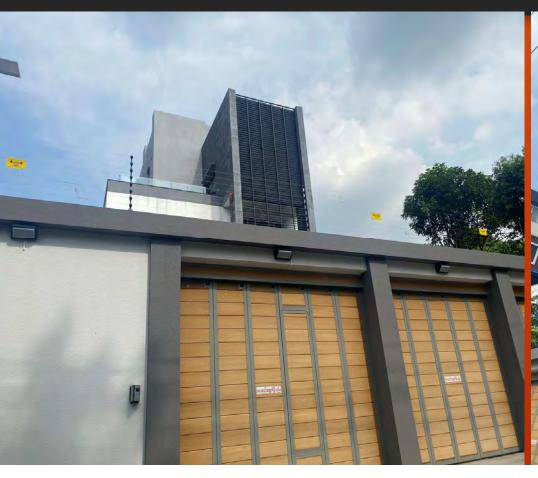


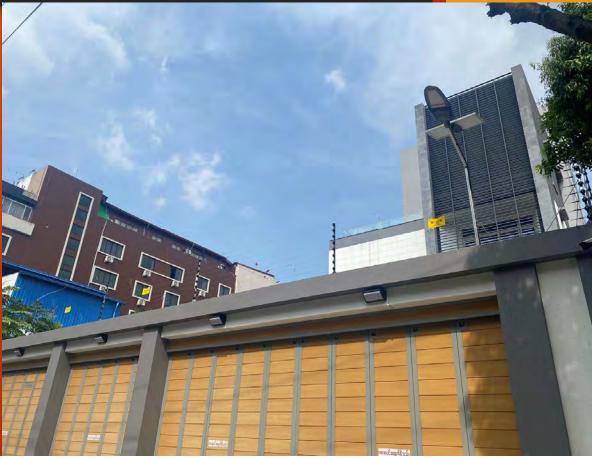








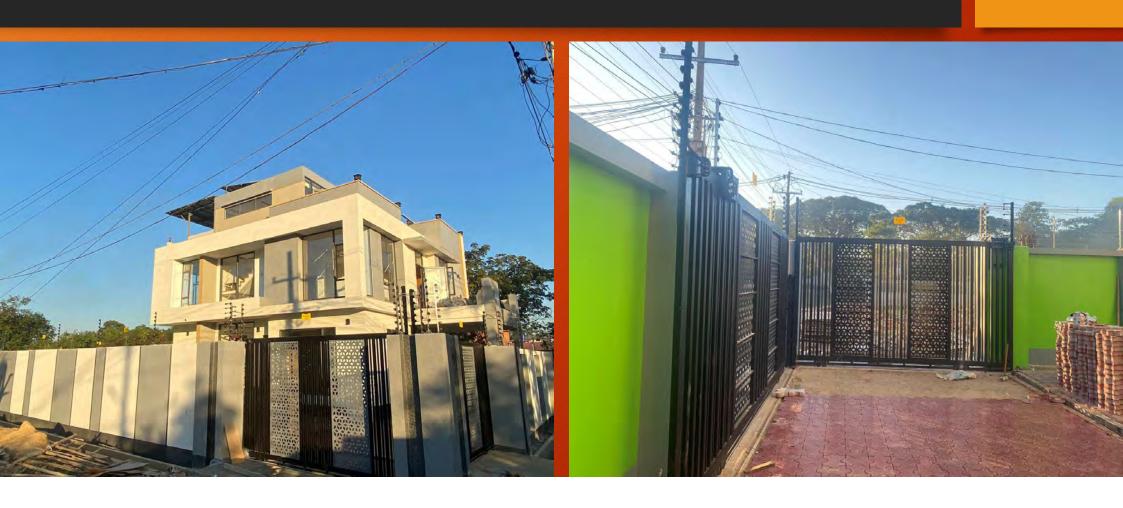


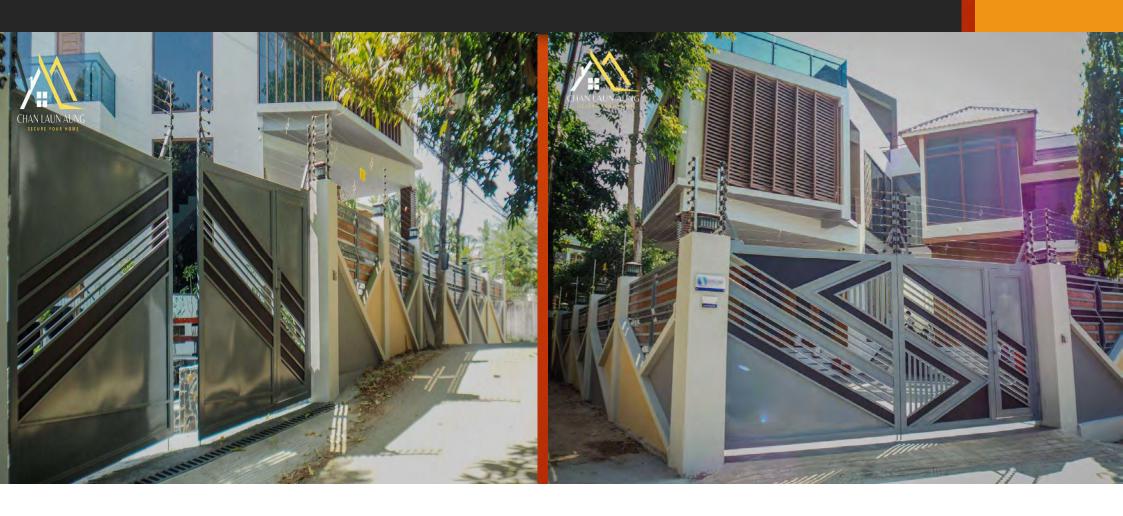




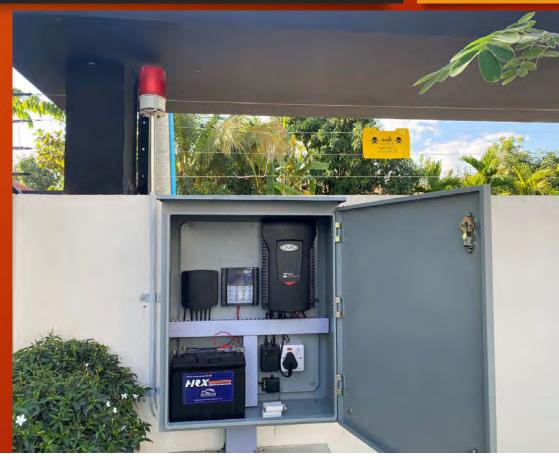




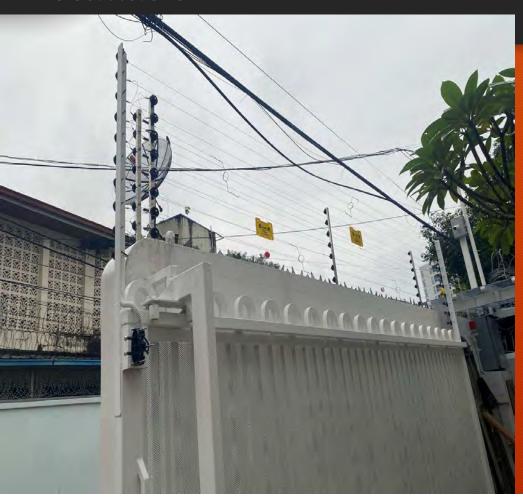






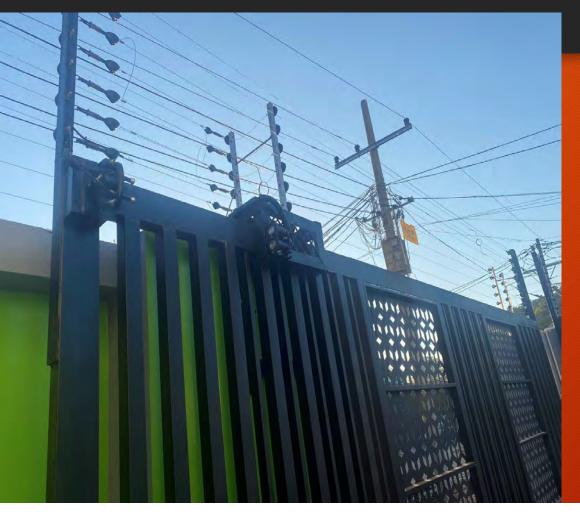


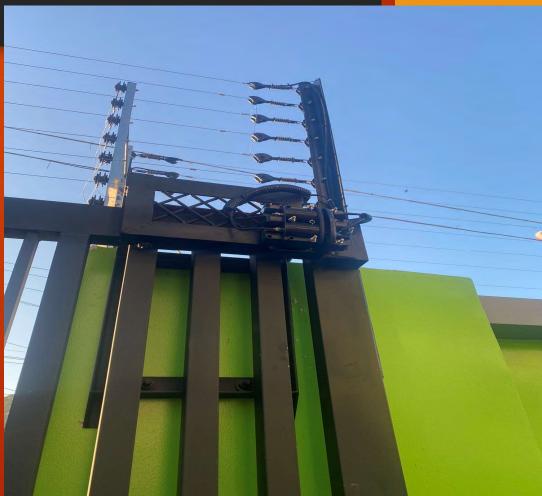
# Slight Slight door contact installation contact installation





#### Slide door Contact installation





#### Electric Fence Demonstration