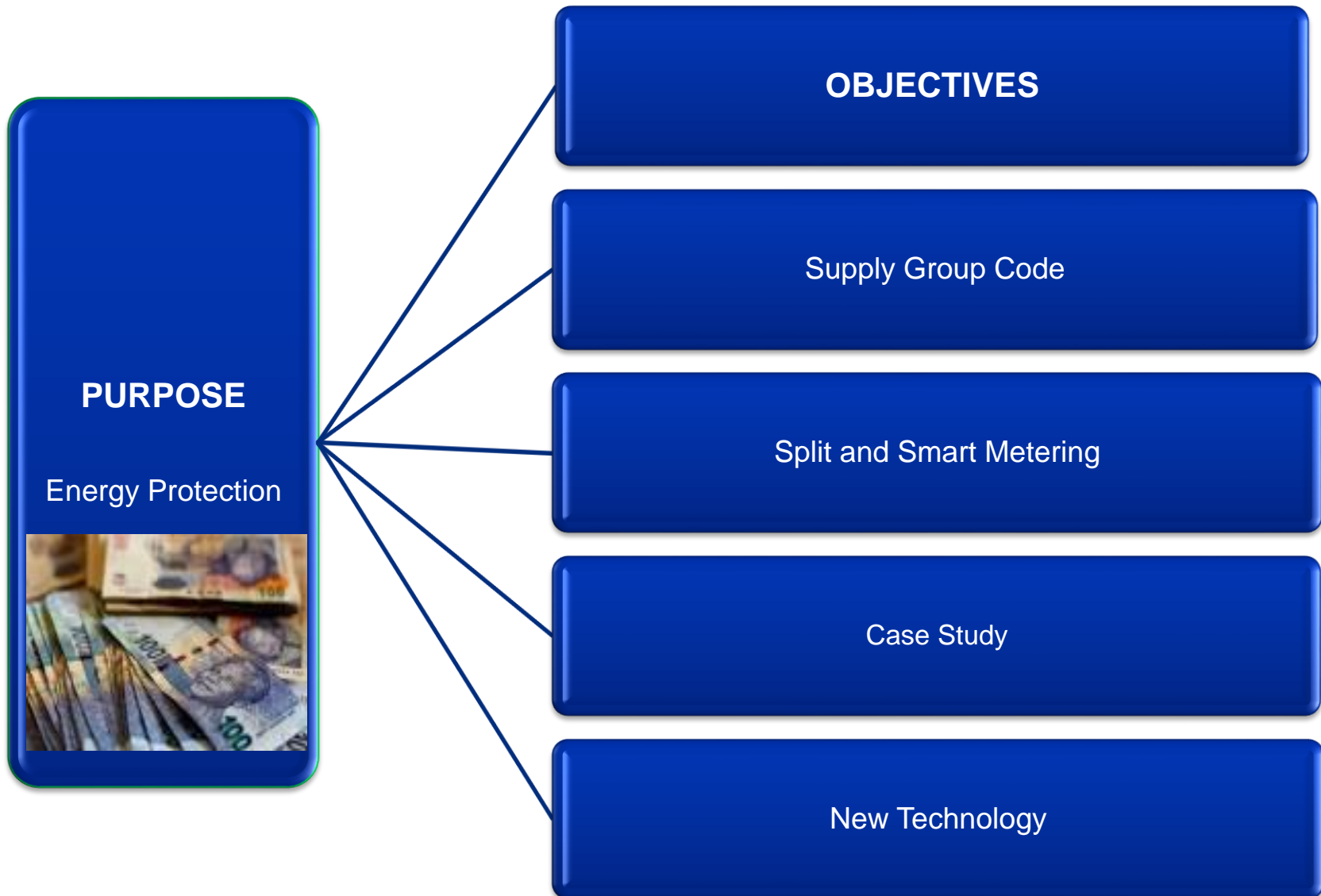


A decorative graphic on the left side of the slide, consisting of three overlapping circular frames. The top frame shows a close-up of solar panels. The middle frame shows a large industrial facility with several tall, white cooling towers and a body of water in the foreground. The bottom frame shows a helicopter hovering near a high-voltage power line tower. The entire graphic is set against a blue background that transitions into a white background for the text area.

# **GOU Energy Protection Strategy**

07 August 2015

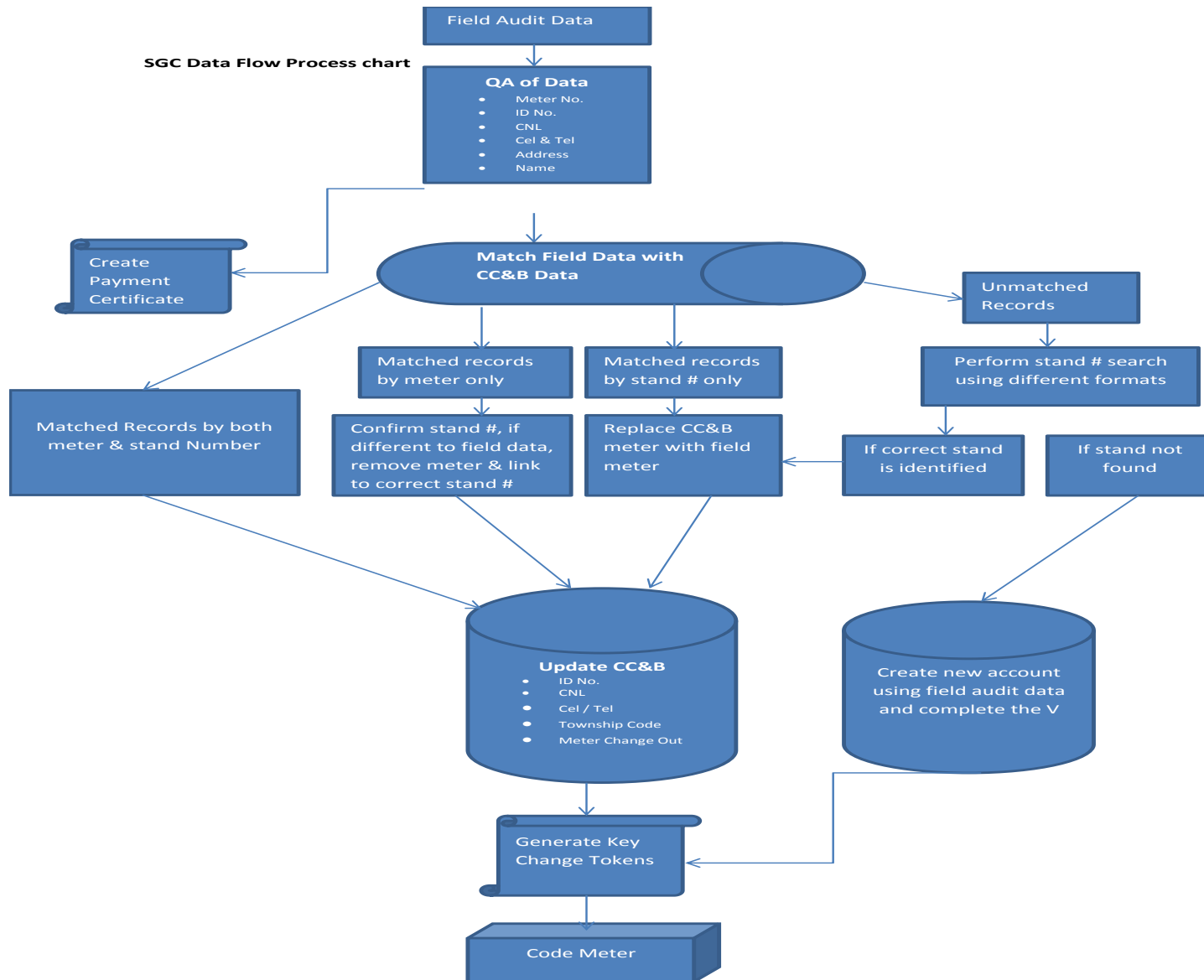


# Energy Protection Objectives

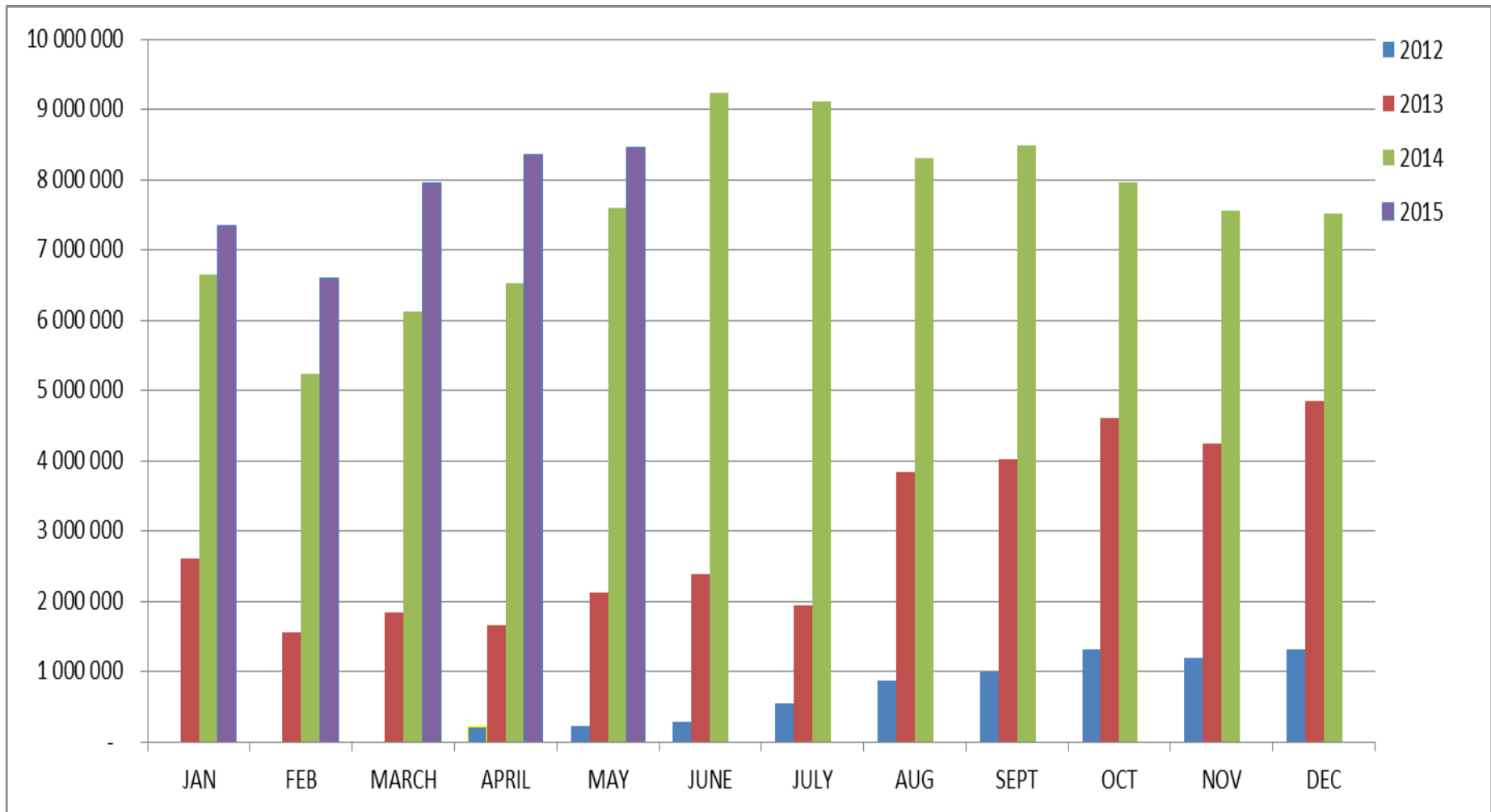
- Reduce non technical losses
- Improve sales
- Prevent Electricity theft (Ghost vending)
- Utilize technology
- Remote monitoring and response
- Meter management
- Reduce overloading and faults
- Reduce equipment theft
- Improve network status

- Supply Group Code Change (SGC)

SGC Data Flow Process chart

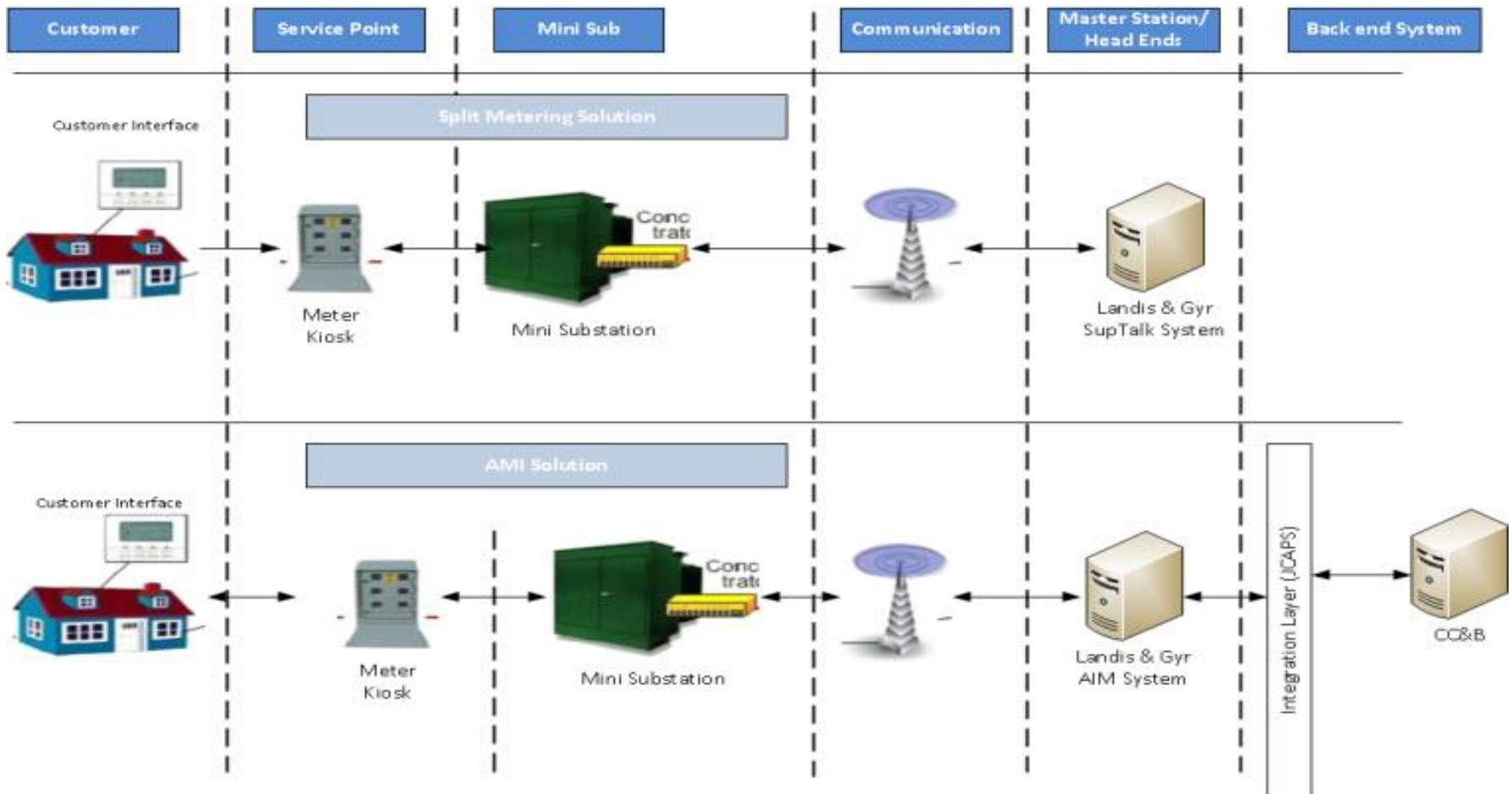


# SGC SALES



1. Install split meters in still enclosures
2. Install smart meters

# Split and Smart metering

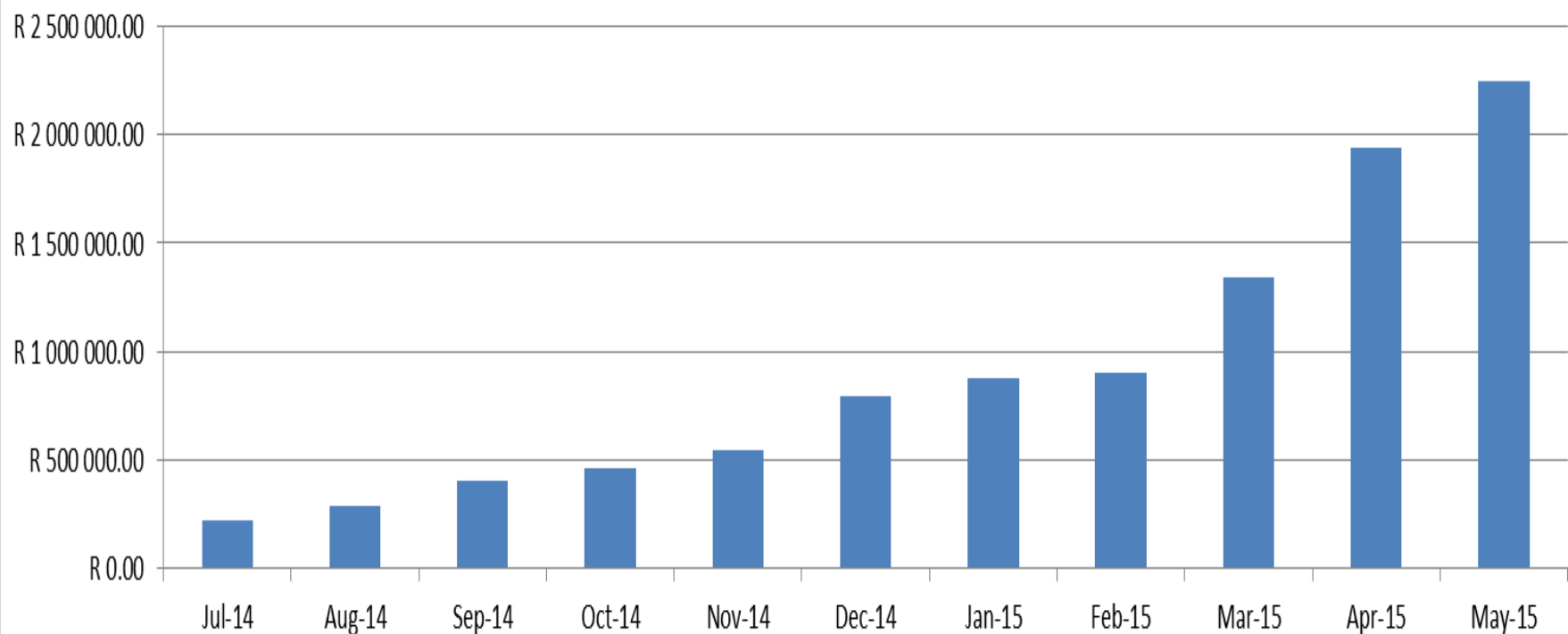




# Advantages of Split and Smart Meter

- Improved public safety
- Reduced energy losses
- Reduced energy delivered - Consumption
- Easy credit management – control of the switch
- Reduced outages and overloading
- Limited access to Eskom meters
- Reduced maintenance costs
- Provide a true hybrid Smart Metering solution (thick meters and thin meters)
- Automated and accurate meter readings
- Support for complex tariffs such as, time of use (TOU)
- Two way communications capabilities with Eskom and the Meter
- Provision of useful consumption and tariff information via the Customer Interface Unit
- Automatic Management of non-essential appliances during peak and constrained periods
- Support for proactive residential outage management
- Tamper detection and energy balancing

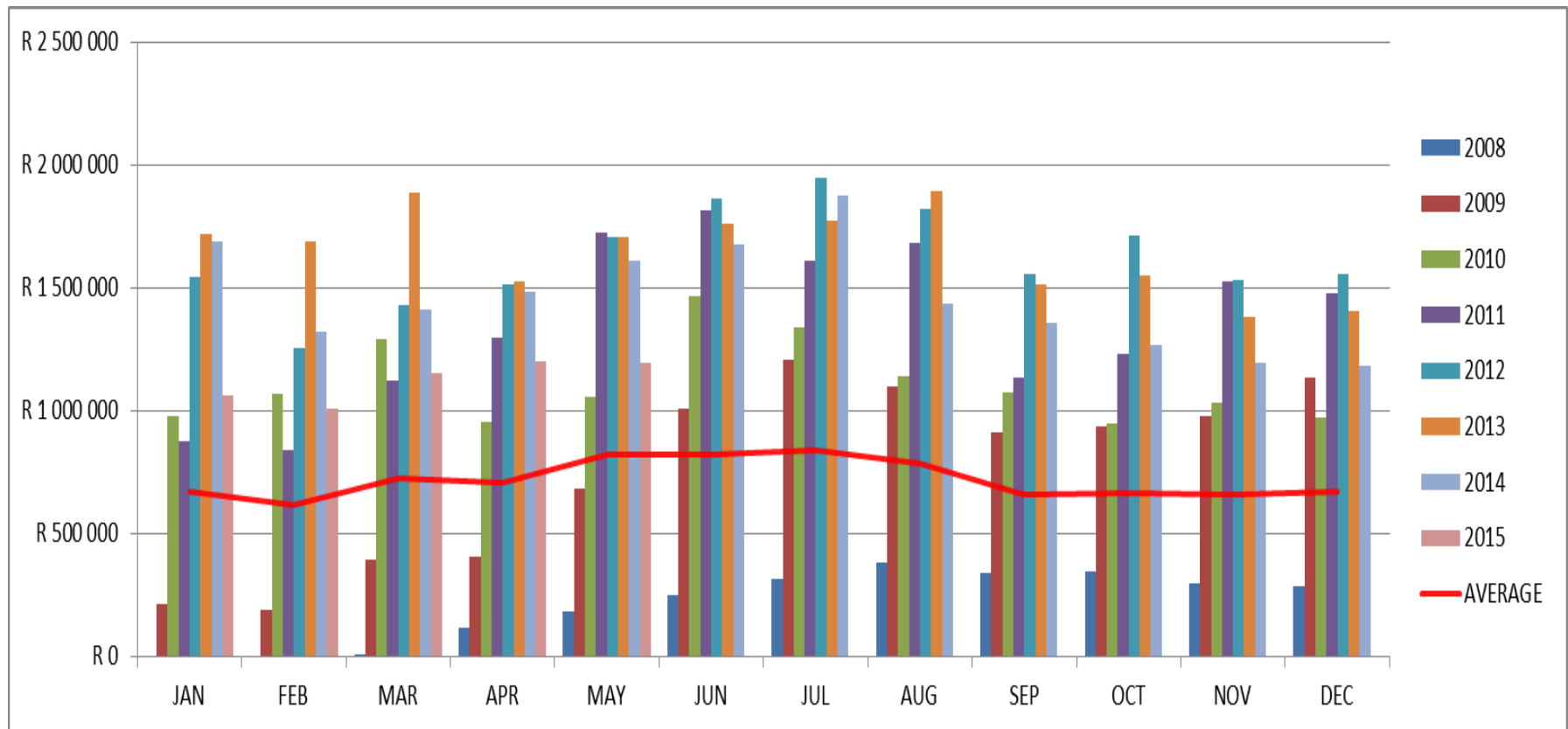
## Split Metering Prepaid Sales



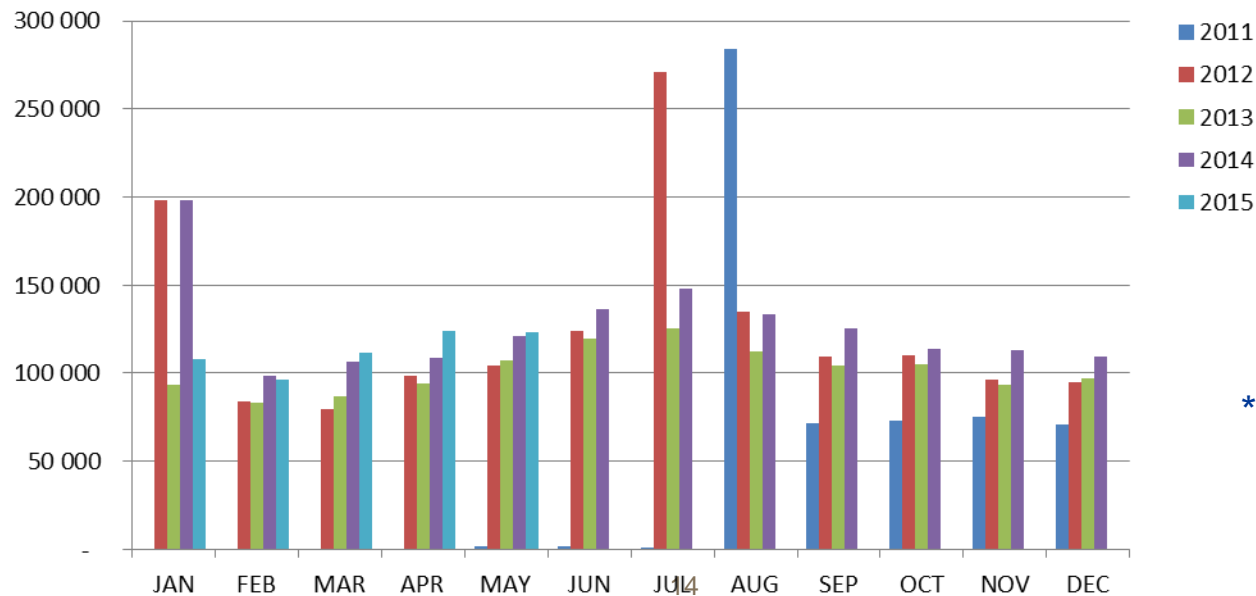
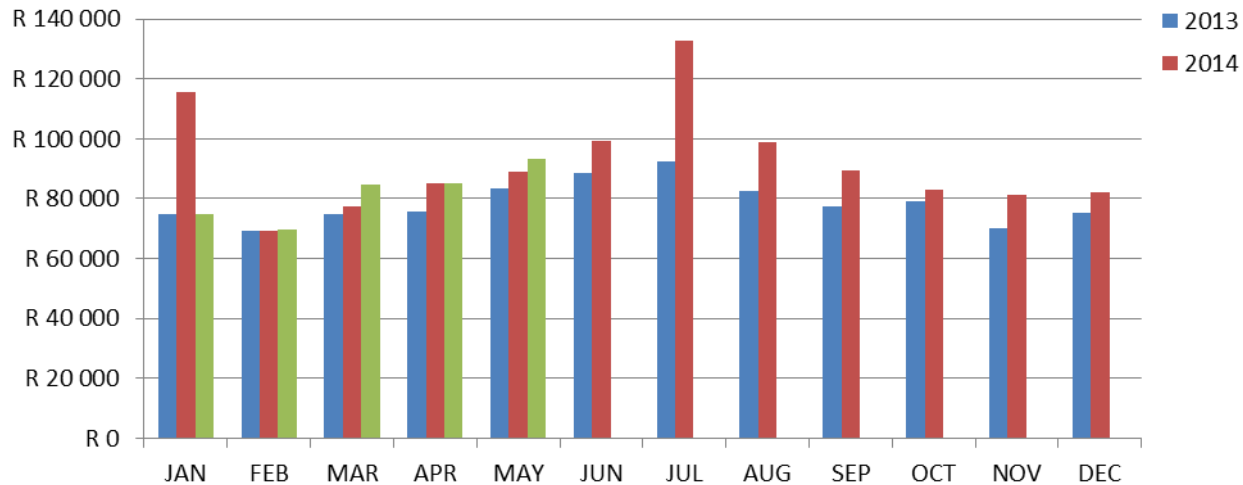


## OLDER SPLIT PROJECTS

# Chiawelo Split



# Chiawelo & Jabulani Flats



- Install split meters to all businesses in the GOU
- Provide bulk supply to Hostels and business complexes

Number of businesses	Split installed	Outstanding	Start date	End date
1007	172	835	1-Jul-15	30-Sep-15



# Case Study – First Chicken





- On 19 July 2011 a routine house to house audit was conducted by Eskom.
- At the arrival at stand 2831, Diepsloot, it was established that the tenant of the customer (Ms LP Mfunzama) was conducting his business outside a container on the boundary of the property.
- The tenant was procuring electricity without the service going through the pre-paid meter of the owner of the property. The owner of stand 2831 had a prepaid meter installed which was connected to the grid by an overhead cable.
- Instead the tenant was procuring electricity by using an underground cable that went to the mini substation ("*substation*") that was situated about 80 meters from the stand. The tenant was procuring a 3 (three) phase supply.
- It was further ascertain that the container was not registered in the municipal records as a vacant stand. Stand 2831 was 1 (one) stand and once source of supply.

- To confirm supply from the minisub a test (continuity of supply test) was conducted whereby the circuit breaker at the pillar box was switched off and the substation was switched off to establish whether supply was procured (energised) from the minisub. It was confirmed that supply was indeed procured from the minisub.
- As a result of the illegal connection at the pillar box and minisub, the cable at both the pillar box and minisub circuit breaker was terminated.
- Inside of the container a 3 (three) phase meter was also found that was not connected to the system.
- A fine in the amount of R8, 178.00 was then issued to the owner of the property for the illegal connection of a 3 (three) phase supply of electricity.
- The meter was then confiscated from the premise.

- The owner of the business laid a charge against Eskom demanding that we reconnect him back with his 3 (three) phase pre-paid meter found on site.
- The Judgement was handed down 9 March 2015 by Judge **Monama and the following order was made:**
  1. The Plaintiff's order seeking from the Defendant (Eskom) the installation of a pre-paid at stand 2831, Diepsloot, Extension 6 is dismissed.
  2. The Plaintiff is to pay the costs including the costs of the *point in limine* argued on the 2<sup>nd</sup> of March 2015

- On arrival to the SMD, the vehicle was found inside the premises with cables
- 47kg of 185mm copper cable, 27kg of Eskom Armouring and 281kg of Telkom copper cable was found inside the vehicle
- Both the suspects were arrested and detained at the Krugersdorp SAPS



1. Smart Pre-Paid Meter to be implemented in Midrand and Sandton in Gauteng by 2016
2. Full system SGC roll out in Gauteng by March 2016

*Organizational performance cannot be left to chance:*

*Leaders must create constant dissatisfaction with the status quo.*

*Leaders and their people must never take success for granted”*

*Dr John Tibane*

<http://www.youtube.com/watch?v=A53b8UDqUeU&sns=em>

3. Cable Croc for protecting cables: contact 3BL at +27794950855 for more details

Thank You

