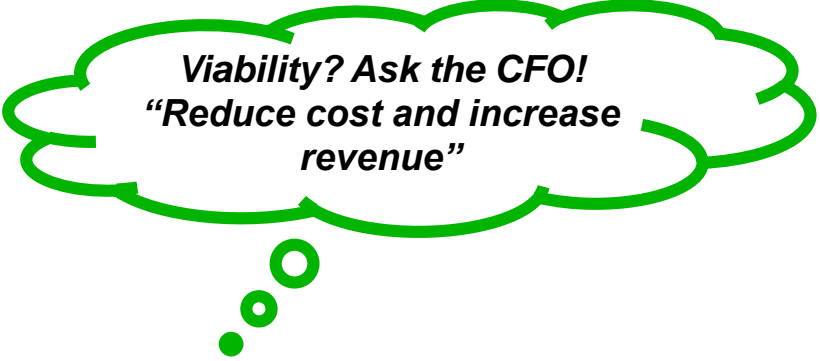


The Association of Electricity Distribution Undertakings in Namibia, AEDU Namibia

## AEDU NAMIBIA TECHNICAL CONFERENCE

*THEME: "Ensuring the Long-Term Viability of Namibia's Electricity Distribution Through Adaptability and Innovation"*

12-14 MARCH 2025 Swakopmund, Namibia

A green thought bubble with a tail pointing downwards, containing text.

*Viability? Ask the CFO!  
"Reduce cost and increase revenue"*

**"Enabling the Smart Grid of Tomorrow through MV/LV Secondary Plant Monitoring and Automation".**

Jako Winter  
CEO

SmartGrid Technologies (Pty) Ltd  
[www.igrid.co.za](http://www.igrid.co.za)

# The cost of electricity

**12% - 16%  
increases every  
year**

## SCHEDULE OF APPROVED TARIFFS (2024/2025)

NAMPOWER (PTY) LTD

### TIME OF USE TARIFF SCHEDULE

TYPE	CUSTOMER SERVICE CHARGE	POINT OF SUPPLY CHARGE		MAXIMUM DEMAND CHARGE		NETWORK ACCESS CHARGE	
	NS/Customer /Month	NS/PoS/Month		NS/kVA	NS/kW	NS/kVA	NS/kW
		No Diversity/ =< 10 MW	With Diversity/ > 10 MW	Peak and Standard		All Periods	
Tariff > 33kV	10,250.00	4,950.00	6,720.00	107.86	118.20	100.41	110.04
Tariff =< 33 kV	10,250.00	4,950.00	6,720.00	112.17	122.93	104.42	114.45

CHARGES					
TYPE	PERIODS			LEVIES	
	Peak	Standard	Off-peak	NEF LEVY	ECB LEVY
	c/kWh	c/kWh	c/kWh	c/kWh	c/kWh
Energy Tariff > 33kV	177.00	132.75	88.49	1.600	2.120
Energy Tariff =< 33 kV	180.53	135.39	90.28	1.600	2.120
Losses >33kV	19.93	14.95	9.96	-	-
Losses =< 33kV	20.33	15.24	10.17	-	-
Reliability	10.96	10.96	10.96	-	-
Long Run Marginal Cost	-	-	-	-	-

- *Notified Maximum Demand (NMD) Penalty Charge*

*The NMD Penalty Charge shall be 100% of the ECB approved NamPower Maximum Demand Charge PLUS Network Access Charge on capacity utilised over and above the customer's contractual NMD, exceeding for three (3) consecutive months, payable as from month three (3).*

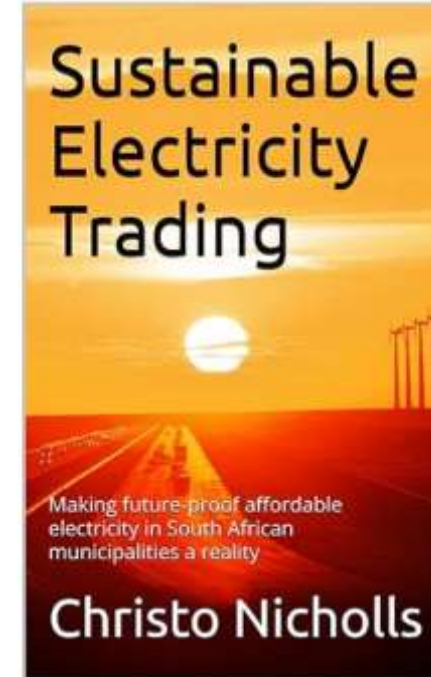
# The cost of non-revenue electricity

- Technical:
  - Long outages, non-metered points, incorrect CT's, incorrect meter config
- Non-Technical
  - incorrect billing, theft, tariff imbalance (high peak tariff sell at flat rate), not incentivising SSEG+Battery feed in
- Unsustainable increase in electricity costs and prices to consumers
  - Defecting consumers (your highest users and best payers)
  - Non/reduced payment (your poorest cannot afford it anymore)
  - Stifled economic growth due to high prices
  - No funds for improvements in the distribution grid and systems.

## The death spiral of a utility!

❖ **Where can we make an immediate difference?**

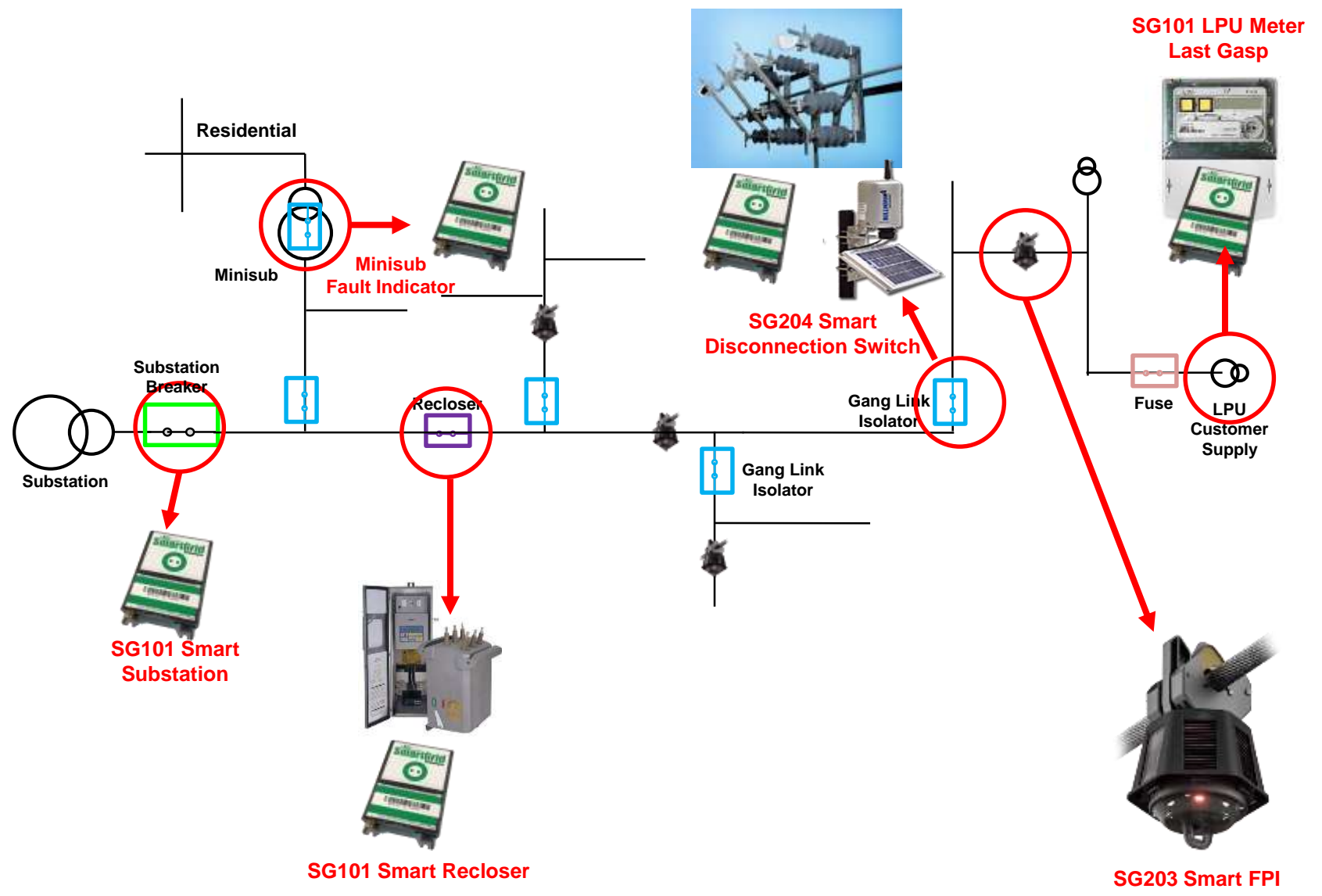
# Is there a way to solve the viability equation through innovation and change?



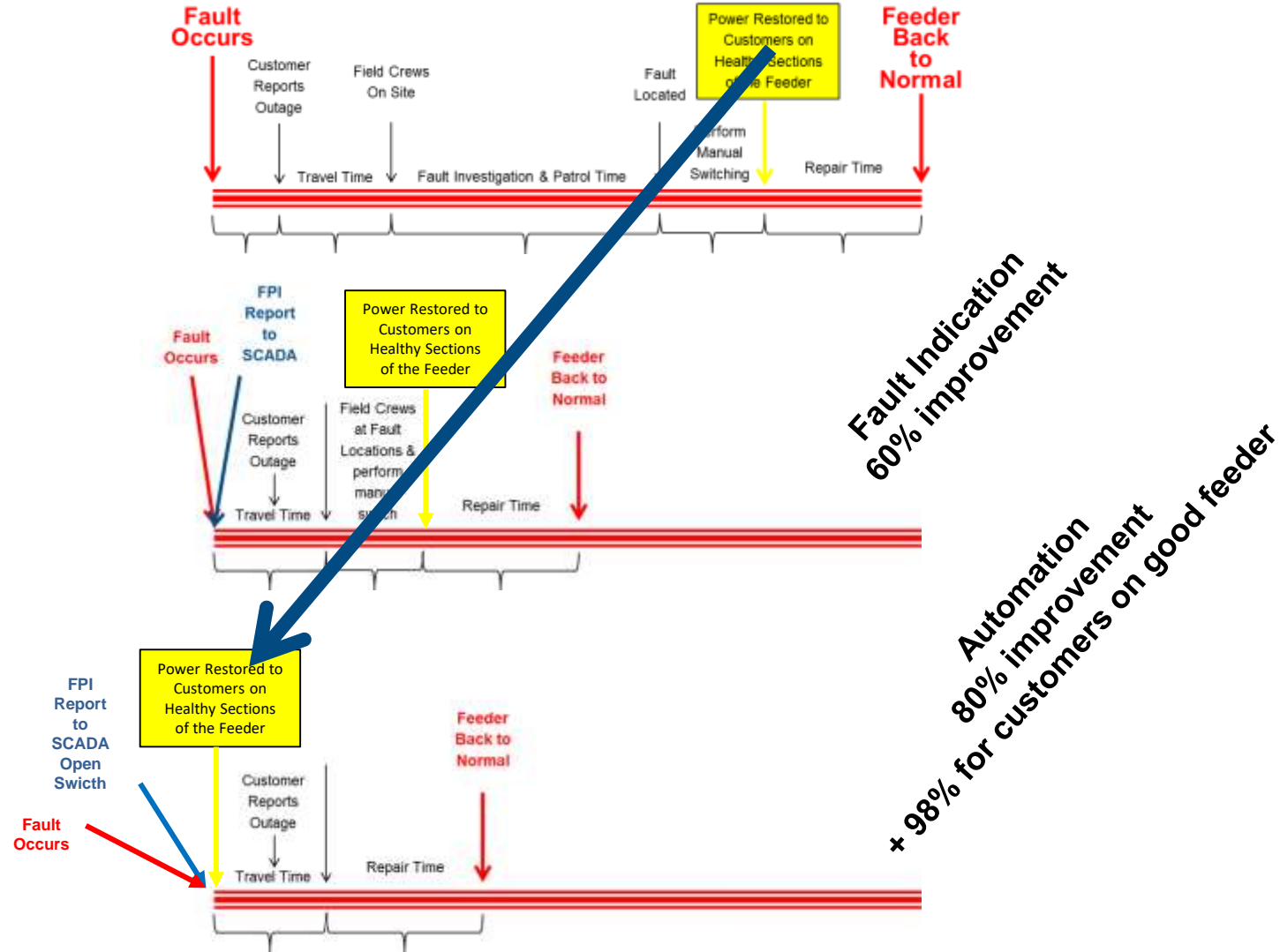
- ✓ **Reduce outage duration and frequency of technical faults**
- ✓ **Reduce operational cost with efficiency improvements**
- ✓ **Measure and monitor what goes in and what gets billed**
- ✓ **Buy low sell high, shift the load**

# Enabling the long term viability through innovation and adaptability

## Increase Reliability - Monitor and Automate

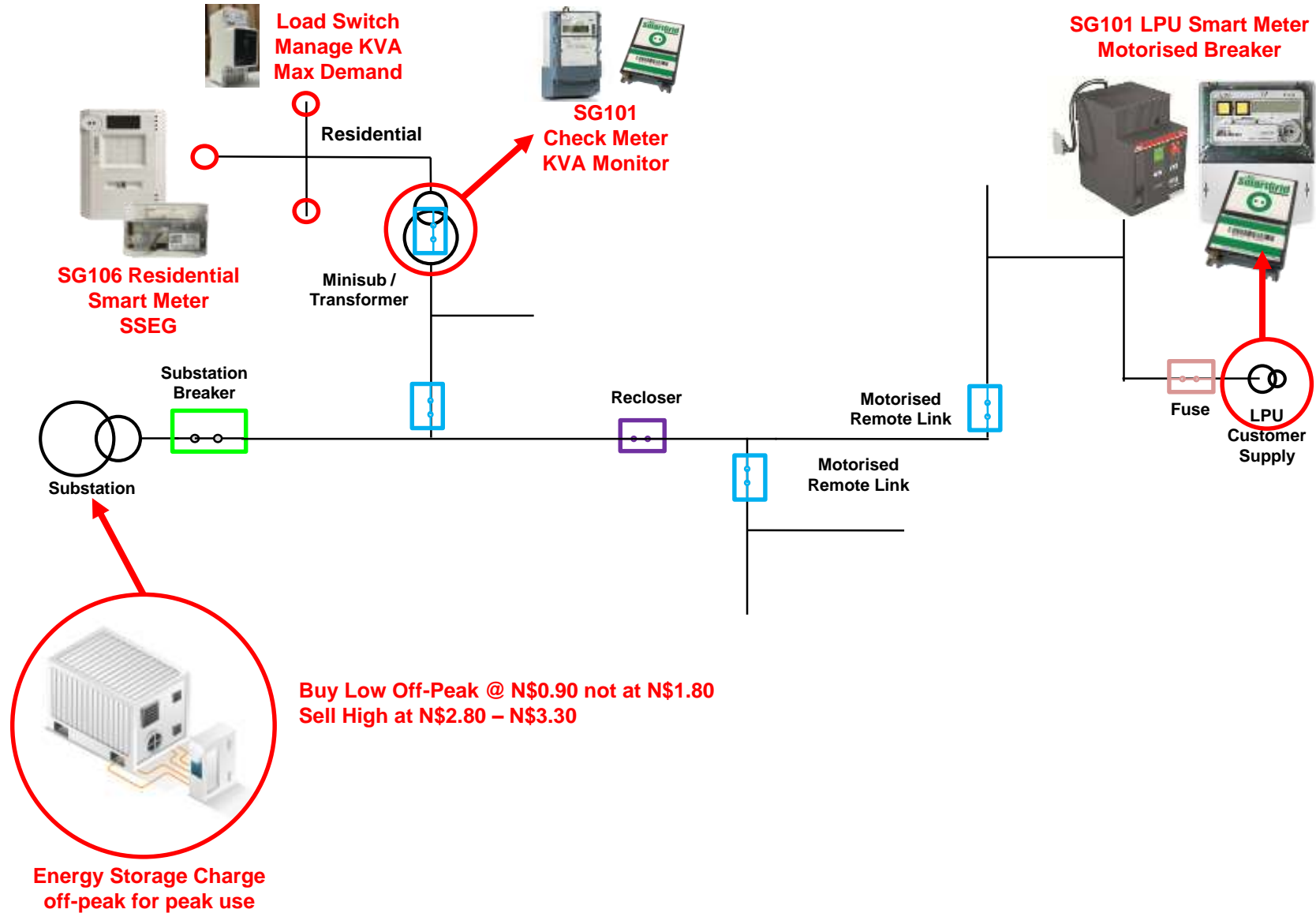


# How will the automation improve efficiency



# Enabling long term viability through innovation and adaptability

## Increase Profit - Use the Smart in Smart Meters





**Enabling the Smart Grid of Tomorrow.... Today.**