



# SMET Meter Data Performance

Version 1.0  
10<sup>th</sup> July 2014

This document may contain commercially sensitive information. All employees of Utilita Energy Limited and Secure Meters (UK) Limited are obliged to treat this information confidentially. It should only be circulated to those authorised to receive it and should be stored and disposed of securely.

# Agenda

- Introduction
- Current Settlement Processes
- Background - Sale Process
- Installation/Data Issues
- Connection Performance
- Data Quality Performance
- Conclusions

# Introduction

- Utilita are a supplier working exclusively in the PP market
- Utilita supplies almost exclusively PC 1 supply points
- Utilita have been actively installing SMET1 compliant meters since July 2013
- Electricity SMET meter portfolio is currently c.37,500 meters
- Total remotely readable meter population is c.80,500 meters
- Utilita are currently performing at c.90% at R1

# Current Settlement Process

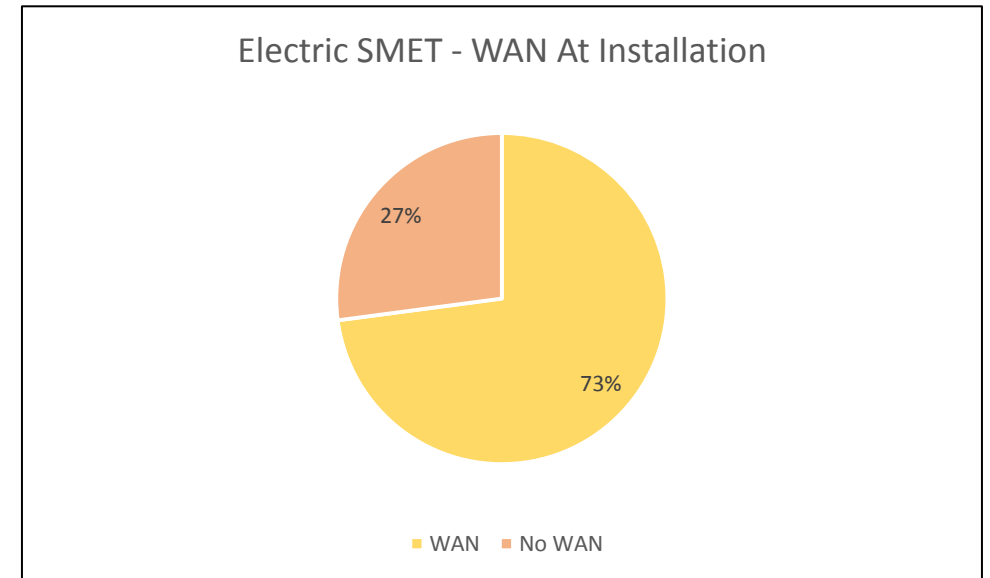
- Utilita target maximising settlement performance at R1 via remotely read sites.
- Current process for settling SMET1 meters
  - Data retrieval process – midnight snapshot
- Meter read submission to NHHDC
  - Utilita submit snapshot read from 1<sup>st</sup> of the month to NHHDC for validation via D0010
  - Reads validated by NHHDC, D0019 data generated and submitted to NHHDA
  - This process ensures that for these meters R1 is achieved on actual consumption data

# Background - Sale Process

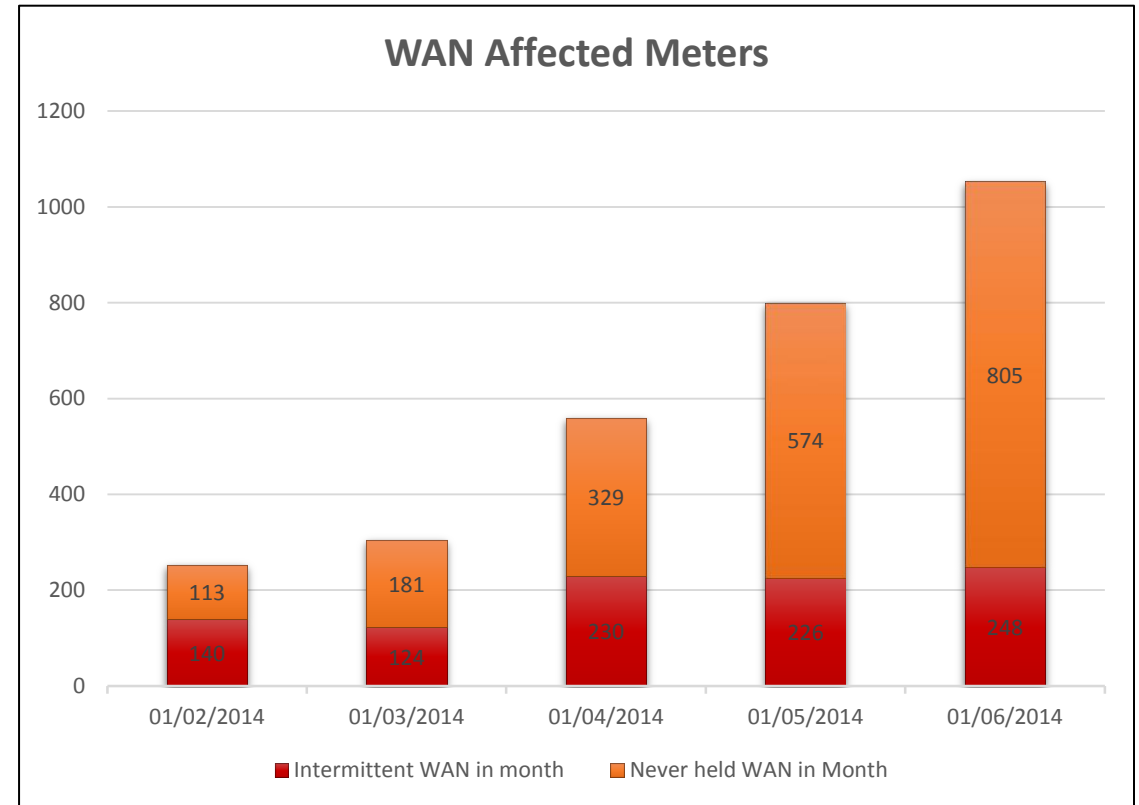
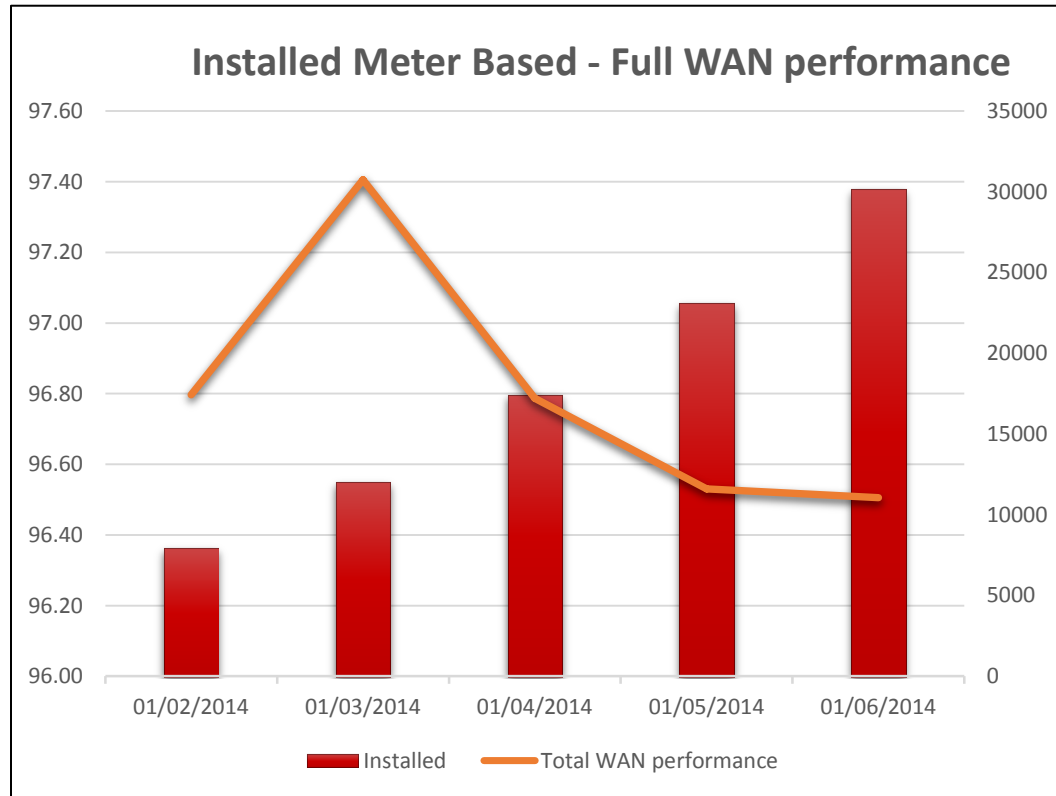
- During the sale process the sales representative will check the signal in the area.
- Seek to avoid sites with inaccessible metering positions – e.g. in boxes
- Don't sell to high rise properties
- Following this process should ensure that WAN is available within the postcode locality being sold within. Crucially this does not however guarantee WAN at the specific meter locality....

# Installation/Data Issues

- Installation – No WAN on install
  - Poor quality signal at meter point
  - SIM activation issues
- Intermittent WAN
  - WAN available on install but drops in and out over time
- Data Collection
  - Connection to meter to collect read – meters waking up at the same time caused overload and resulted in failure to collect data for all meter points

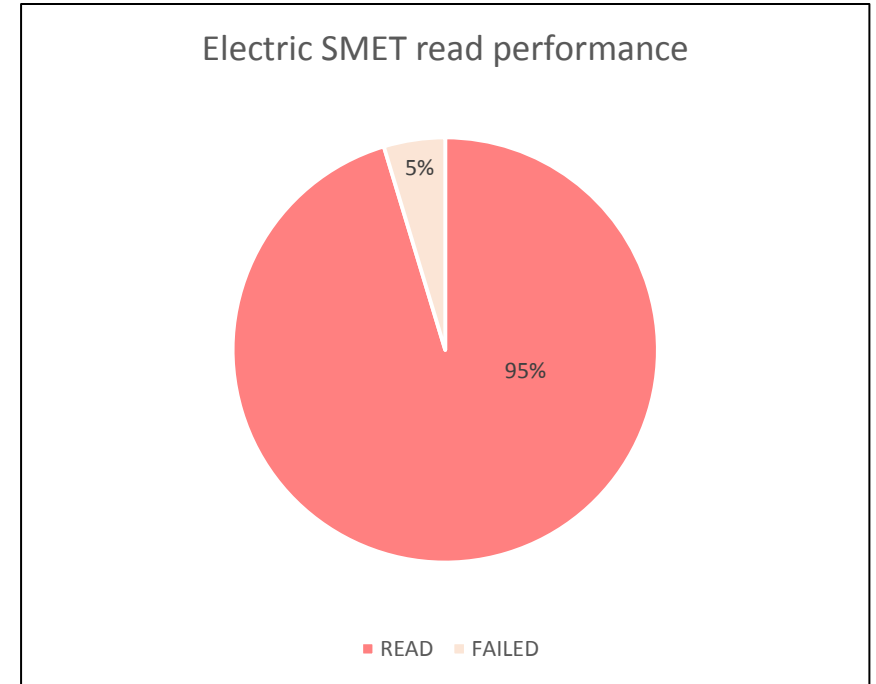


# Installation/Data Issues



# Connection Performance

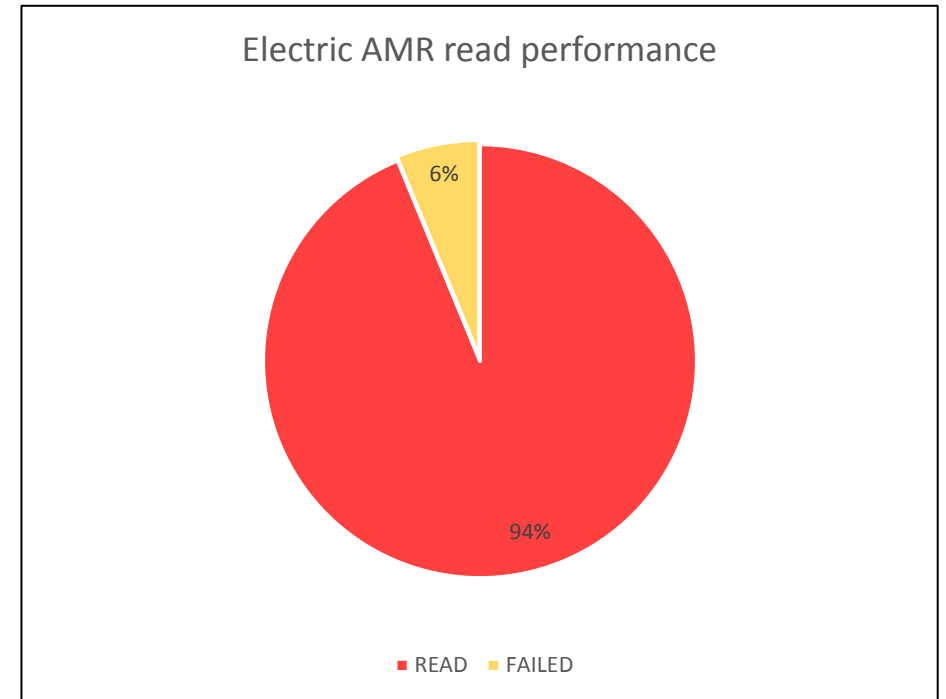
- SMET Performance July 2014
  - Read successfully taken – 35999 meters
  - Read failure – 1762 meters
- Causes of failure
  - Intermittent WAN
  - Inconsistent communication data





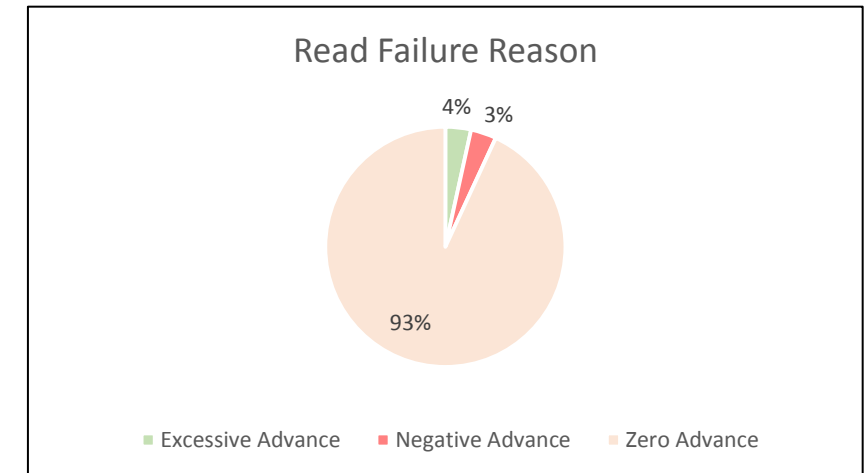
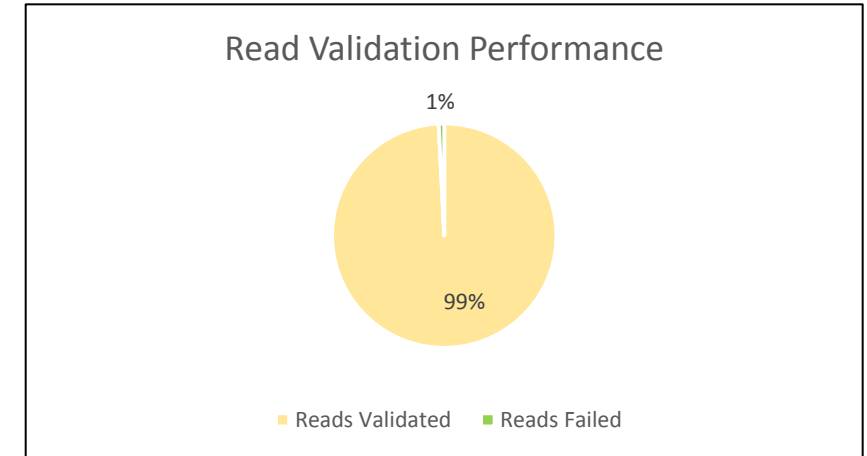
# Connection Performance

- AMR Performance July 2014
  - Read successfully taken – 39761 meters
  - Read failure – 2631 meters
- Causes of failure
  - Poor GSM/GPRS signal
  - No GSM/GPRS signal
  - Inconsistent communication data
- Actions to address failure
  - Cleanse comms data
  - Update SIMs in meters to roaming SIMs



# Data Quality Performance

- SMET Read Validation Performance June 2014
  - Reads submitted to NHHDC - 29143
  - Reads validated – 28911
  - Reads failed – 232
- Read Failure Breakdown
  - 8 due to excessive advance
  - 8 due to negative advance
  - 216 due to zero advance



# Data Quality Performance

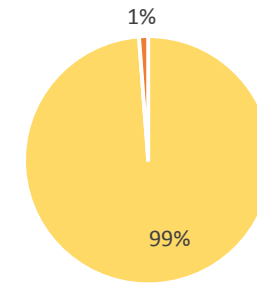
- AMR Read Validation Performance June 2014

- Reads submitted to NHHDC - 37861
- Reads validated – 37413
- Reads failed – 448

- Read Failure Breakdown

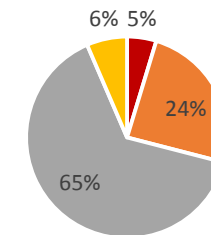
- 21 due to excessive advance
- 29 due to read date prior to last valid read
- 109 due to negative advance
- 289 due to zero advance

Read Validation Performance



■ Read Validated ■ Read Failed

Read Failure Reason



■ Excessive Advance ■ Negative Advance  
■ Zero Advance ■ Read date < previous valid read

# Conclusions

- Performance, of both data collected and its quality supports the view that a shortening of the current settlement timetable is viable.
- Consideration does need to be given to WAN at the meter point, not just the locality as our experience is that this can drop in and out.
- Given the potential for intermittent WAN there are implications for reconciliation. A short settlement timetable could potentially reduce the quality of data in settlement – not the aim of SMP
- Evidence suggests that it might be necessary to keep at least one of the reconciliation runs between SF/RF and that consideration needs to be given to when RF should be brought forward to.