

# **Review of Indicative Table of Contents for the Smart Energy Code**

**Installation / Maintenance  
DCG SG3  
21 December 2010**

# Prospectus Extract

“Meter installation, removal and exchange obligations and procedures – implementation of rollout obligations

This section would set out practical arrangements between the parties to enable rollout of smart meters and their subsequent maintenance and replacement.”

## **Assumptions:**

SEC will set out general duties underpinned by supplementary detailed procedures

Data Access and security, interoperability, functionality will be covered in other sections of the Smart Energy Code

The code of conduct for installation at a customer’s premises is not in scope for this section of the SEC

# Installation – general duties

- Roles & Responsibilities
  - Pre-DCC/Post DCC?
  - procuring SMS components, including comms
- Smart Metering System
  - compliant with functional and technical requirements – signpost to these - under consideration by SMDG
  - complete installation – what is ‘completion’- (link to other agreements)
  - Interaction with HAN and WAN
  - Duty of co-operation (obligation?)
  - Non-coincident IHD provision

# Maintenance – general duties

## Roles & Responsibilities

- Pre-DCC/Post DCC?

Consider across Smart Meter System. Code subsidiary procedures for rectification for Meter, WAN, HAN, IHD?

N.B. Prospectus notes the supplier

- will be responsible for installation of the WAN communications modules and their replacements if they develop faults.
- responsibility to maintain and replace IHDs for at least one year after installation of the smart metering system.

Duty to co-operate re faults

Assurance/Technical Audits/Policy exchanges, subject to  
Service Lines

# Removal – general duties

Assume if component exchanged (i.e. removed and replaced), follow installation processes?

Circumstances where a complete smart meter system is removed without replacement?

- disconnection
- change of measurement class

Inform DCC of changes/removal

# Installation/maintenance/exchanges – interdependencies

## Interaction with other codes/procedures

- Metering governance – see following slides
- Registration data updates – see ‘For Discussion’ slides
- Smart Meter System information updates
  - from and to agents & DCC
  - to Networks
  - between suppliers for shared SMS data?
- Comms processes for fault fixing/replacement etc?

# Metering Governance – Electricity

## **Legal Obligations**

The Electricity Act 1989

Meters must be approved by a Notified Body under the Measuring Instruments Directive (2006 S.I. 1679)

## **Safety**

ESQCR

Distribution Businesses are responsible for the safety of individual operatives working on their networks

Distribution System Operator / MOP interface - MOCOPA

## **Electricity Settlement**

BSC

Meters must comply with Codes of Practice

# Metering Governance – Electricity

## **BSC Section K (Registration of Metering Systems)** **Section L (Metering)**

### **Codes of Practice**

#### **BSCPs:**

27 – Technical Assurance (of HH Metering Systems)

32 – Metering Dispensations

502/504 – Data Collection

508 – Supplier Volume Allocation Agent

537 – Qualification

601 – Approval of HH Meters

# MOCOPA

- Condition [27] of the DCUSA requires [Suppliers shall procure MOp] compliance with MOCOPA
- Authorises meter operators to install and connect meters to the electricity network by clarifying that the equipment being provided, installed and maintained meets appropriate technical requirements and that work is carried out to adequate safety standards.
- Relationship between Network/MO's regarding the safety, technical and business interface requirements
- Meter Operators are responsible for assessing that meter installers are competent and issue their own certificate
- Coverage includes
  - Requirements Applicable To MOCOPA® Operators At The Company Level
  - Requirements Applicable To Meter Operatives At The Site Level
  - Obligations And Rights Of The Distribution Business
  - On-Site Interface Considerations

# Metering Governance – Gas

## **Legal Obligations**

The Gas Act 1986

Meters must be approved by a Notified Body under the  
Measuring Instruments Directive (2006 S.I. 2674)

## **Safety**

- Gas Safety (installation and use) Regulations 1998
- Legislation – meters must be installed by a person who is “approved”
- IGE/GM/5 – the installation and use of Electronic Gas Meter Volume Conversion Scheme
- IGE/GM/7 – Electrical Connections to Gas meters

# Responsibilities

- RGMI – must comply with the Code (MAMCOP)
  - responsible for selection and installation of an appropriate meter in accordance with IGE/GM/6
- OFGEM – operating a registration system for persons performing meter work + approval of pattern, construction, manner of making and stamping of meters as required by the gas act
- Provision
  - Suppliers – have a responsibility for provision of meter if requested to/or procured by domestic customers
  - GT's – have an obligation to install and fit meters if requested to do so by suppliers via the relevant shipper
- GT – is responsible for approving design proposals and the completed installation

# Metering Governance – Gas

- Central body administer “Registered gas meter installer” scheme (OAMI)
  - they approve persons to install (and/or inspect) meters. Meter installers assessed against the requirements of the Code of Practice (dependent on type of installation)
  
- Temporary disconnection/reconnection to allow safe working downstream of the meter subject to Gas Safety (installation and use) Regulations 1994 = outside scope of MAMCOP

# Supplier responsibilities

## Prospectus Extract

“Responsibilities of suppliers with respect to meter system operation

Suppliers would be responsible for meter system maintenance and meter configuration. It is also proposed they would have responsibility for the WAN communications module.”

# Supplier responsibilities

## **Supply Point**

Existing principle that Supplier responsibility for their registered 'supply point' endures until CoS or Disconnection. Consider how this plays out where a Smart Metering System is in place:

- Electricity Meter
- Gas Meter
- Lead Supplier for HAN/Wan components

## **Smart Metering System**

- Compliance (including assurance)
- Co-operation with associated Supplier and possibly his agents (eg data collection)
- Security & safety
- Meter disablement/re-enablement
- Ensure access routines terminated on CoS

## **DCC**

- Use of DCC services at install/maintain/remove events
- Use of DCC for day to day SMS services – under Service Lines?

## **Change of Tenancy**

- Linked to security?

**Supplier agents** - assume will remain in place (recognise that there will be other commercial models)

# Network responsibilities – Prospectus extract

Responsibilities of networks with respect to meter system operation.

DNOs and GTs would carry responsibilities under the Code as well as having rights to receive consumption and other data subject to any privacy restrictions, in return for payment for DCC services.

# Network responsibilities

Impacts on/consequences of network requirements

In Code?

- Emergency metering work (UMETS/PEMS)
- Planned and unplanned network outages
- Remote energisation/de-energisation – e.g. safety/rotary disconnections

Provision of network-related data – ‘push’ to DCC

Access to Smart Meter Systems – use of DCC services

Smart Grid (data management/load/demand)

*Gas to follow from ENA*

# Other

Any other licence conditions that could be discharged through this section of the SEC?

- Dispensations and/or exceptions?
- Any involvement of agents in install/maintain events?
- Meter commissioning process needed?
- Consider Meter 'proving' process ('Meter to bank')?