Decarbonisation

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Victoria Mustard

GAS ROADMAP

INFRASTRUCTURE

1. **Production**
   - Offshore gas fields
   - Interconnector
   - LNG tank
2. **Enters UK**
   - Received into a national gas terminal (owned by National Grid & situated around the UK coast)
   - Some of this will go direct to storage
3. **Enters NTS**
   - Gas is called off from the terminals and into the National Transmission System (NTS) as required, in line with demand forecasts
4. **Enters Local Distribution Zones**
   - Gas moves from NTS into:
     1. Regional LDZ networks
     2. Independent gas networks
   - At this stage it is in "bigger" pipes
5. **Gas enters lower branches**
   - Gas goes through a pressure reduction station
   - It enters "smaller" pipes, suitable for connection to consumers
6. **Gas reaches consumer**
   - Gas passes through a meter, producing a read, and is used by the consumer
   - Consumer is billed based on that read (or an AQ between reads)
7. **Gas is consumed**
   - Gas is burned, releasing emissions

Heat Map on CDSP Systems & Communications

Updated 5th January 2022

UKLink

- Ability to flag (& remove flag) & make visible an MPRN/CV Zone on a decarb project
- Ability to accept and process files containing CV for MPRN/ CV Zone
- Calculate energy using correct CV
- Ability to amend CV for Class 1 and 2 sites at MPRN level on GFD+1 (by GFD+5 at the latest)
- Ability to amend CV for Class 3 & 4 sites at MPRN and/or CV Zone

BW, DES & DDP

- Ability to identify an MPRN in a Decarb project
- Reporting includes notification that an MPRN is in a Decarb project/ fuel type

CMS

- Potential for minor impacts
- Note: replacement CMS not yet assessed

Gemini

- Possible requirement to add additional EUCs/meter IDs
- No impacts to daily gas demand & UIG (assumption correct AQ/energy applied)
- No impact to NTS sites (site CV applied)
- No impact to energy balancing processes
- CV not used for energy calculation of LDZ sites

UKLink File Flows

- Change/new file to notify Shipper that an MPRN is on a Decarb project
- Change to notify DN of a change on a decarb project
- Change to flows notifying CDSP of the CV
- Change to invoicing files to show CV Zone

Complexity Levels

- No impact
- Low
- Medium
- High

Note: Analysis carried out on current systems only, impacts on new systems not yet implemented TBD

Heat Map on DSC Business Processes

Updated 5th January 2022

1. Maintain Gas Industry Stakeholders
- Initial assessment does not identify any impacts unless separate contracts are required for blended/hydrogen gas

3. Predict, Allocate & Balance Daily Energy
- Validate CV
- Gas Nominations
- Gas Allocations
- UIG
- Energy balancing

5. Invoice & Collect Charges
- Perform charge calculations
- Issue Invoices

2. Maintain Supply Meter Point Register
- Create Supply Meter Point & assign to LDZ/CV Zone
- Maintain LDZ /CV Zone
- Amend Supply Meter Point
- Manage Supply Point Nomination
- Manage Supply Point Confirmation
- Manage Asset Change/Update
- Generate portfolio

4. Settle Meter Point Consumption
- Validate read & calculate Supply Meter Point energy
- Validate consumption adjustment & calculate Supply Point energy
- Calculate AQ
- Reconcile Supply Point energy

7. Enable and Support Operational Processes
- Provide Access to Data & Management Information
- Manage Customer Contacts (queries)

Complexity Levels

- No impact
- Low
- Medium
- High

Note: CDSP/DSC processes only have been assessed. Customer processes yet to be assessed