

#### **DESC: NDM Negative Allocations**

13th November 2013

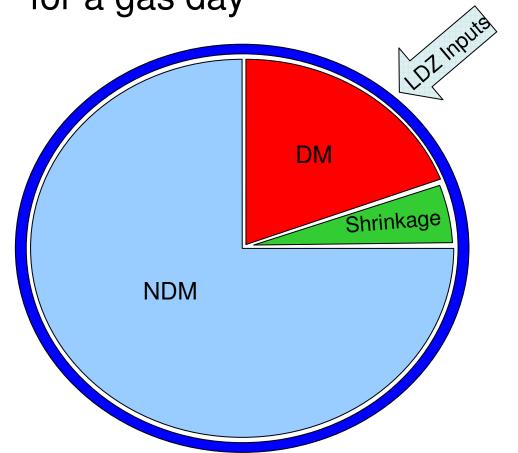
## Allocation processes – why are they needed?

- Allocation rules are needed to share out all energy in an LDZ
  - Before the day "Gas Nominations" (Forecasting) process
  - After the day Energy balancing and commodity billing processes
- Need to measure or estimate all inputs and outputs
- Currently do not have daily reading equipment on all 21+ million meter points – <2,000 submit daily reads</li>
- So, need some means of estimating demand for nondaily metered (NDM) meter points



#### NDM Allocation – what drives it?

NDM Energy is the balancing figure in an LDZ for a gas day



- (1) Total consumption measured 'entering' the LDZ
- (2) Daily Metered Sites (DM) Consumption known by daily meter readings
- (3) Shrinkage Network defined value for gas 'lost' in the system
- (4) Non Daily Metered Sites (NDM) consumption

$$= 1 - (2 + 3)$$



#### Factors which influence NDM Gas Usage

- Actual consumption at NDM Meter Points is influenced by (amongst others):
  - The consumers' reactions to weather
  - Size of the connected NDM Portfolio
  - Meter points moving between DM and NDM
  - Socio-economic factors, e.g. gas prices, productivity, unemployment
- Actual consumption will always be positive



### Factors which influence NDM Energy as calculated

- NDM Energy is the balancing factor each day in each LDZ and is influenced by:
  - Actual NDM usage (see previous slide)
  - LDZ input measurements (from the NTS or from other LDZs)
  - DM daily measurements
  - DM estimates where actual measurements are missing
- Errors in measurements can send NDM energy negative in rare cases

#### Safeguards in place

- NDM Energy is the balancing factor and will fluctuate each day, due to weather, day of the week, holidays etc
- National Grid Transmission monitor input data prior to Exit Close-Out (D+5)
  - Negative consumptions will be identified by D+2 at the latest
- Energy must remain whole root cause must be corrected to remove a negative
- NGT liaise with upstream data providers
  - E.g. DNs, DM service providers



#### New communication process

- With effect from November 2013
- NG Transmission will notify Xoserve of Negative NDM Energy as soon as identified
- Xoserve Customer Team will write out to an operational distribution list confirming
  - LDZ
  - Date of negative NDM Energy
  - Summary of root cause
  - Planned date of correction (whether pre/post D+5)
- Xoserve will write out again to confirm correction and resolution

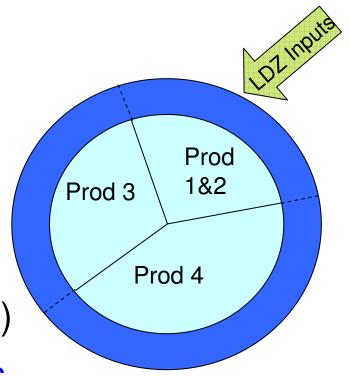


# How will Negative Allocations change after UKLink Replacement?

Overview of Project Nexus impacts

#### Project Nexus – Treatment of Unidentified Energy

- Sum up total Prod 1&2 measurements (~DM)
- Sum up total Prod 3&4 estimates (~NDM – new bottom-up estimation methodology)
- Compare to net LDZ consumption (after Shrinkage)
- Difference is Unidentified Gas
  - Shared in proportion to daily measurements
  - Separate allocation pot of UG not a scaling factor



Initial Allocation – not to scale



#### Negative energy – Project Nexus Impacts

- Unidentified Gas is the balancing figure under future arrangements
- NDM Energy will always be positive bottom-up calculation
- Calculated UG could be negative
  - Scale of UG depends on accuracy of measurements/ estimates
  - Could still be negative at D+5
- UG subject to reconciliation after Close-Out until Line-in-the Sand

