# **CV FWA Capping losses – securing co-operation**



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## **Calorific Values**

Gas (Calculation of Thermal Energy) Regulations require transporters to calculate the Calorific Value for charging area (= LDZ) on a daily basis

Three possible methods:

- Declared CV
- Lowest Source CV
- Flow weighted average CV

Current approach based on

Flow weighted average CV

#### **LDZ Charging Areas**



#### Flow Weighted Average CV Method : Example 1



#### Flow Weighted Average CV Method : Example 2



### Key implications of energy losses associated with FWA CV capping

#### Consumers

 In aggregate consumers will benefit from paying for less energy than they might have consumed

#### Shippers

• Will effectively have to input less gas to support their portfolio. Lost margin on the incremental energy not supplied.

#### **Distribution Network**

• Price control allowed revenues a function of energy throughput and therefore allowed revenues reduced in respect of lost throughput associated with with any capping.

#### **UK Transmission**

• Unbilled energy will increase NTS shrinkage requirements. UKT will be exposed to a share of the value of the gas.

In the shorter term consumers benefit from FWA CV capping but with an allignment between shippers, distribution networks and UK Transmission to minimise such losses.

### **Daily Operations**





WA Capping will give rise to lost energy in the DN reducing the DN allowed revenue strea





With flows as indicated FWA capping process implies underbilling of customers in both LDZs, reduced transportation billing for LDZs and increased NTS shrinkage requirement



With flows as indicated FWA capping process does not imply any LDZ1 CV capping loss because of the increased CV at the lowest source input to LDZ 1

# **Calorific Values Business Rules**

# **CV** Shrinkage

- Parties to cooperate
- Reimbursement by DN of CV shrinkage costs incurred by NTS due to reasonably foreseeable circumstances associated with DN CV or volume measurement equipment

# FWA CV Capping & Co-operation

## Conclusions

- Allignment of shipper, DN & UKT interests
- DN incentives to arrange NTS offtakes to minimise CV losses where feasible
- UKT incentives to minimise CV losses where co-mingling is feasible