

Unidentified Gas Modifications

Workgroup Meeting

15 January 2018

Purpose

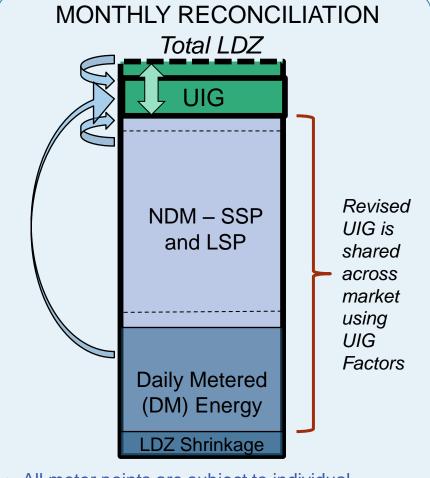
- Slides represent Xoserve's understanding of the three UIG Modifications, based on
 - Review of Mod proposals as at 11th January
 - Discussions with proposers
 - Discussions/explanations at first UIG Workgroup
- May be subject to change depending on subsequent discussions



Recap: Post-Nexus Allocation and Reconciliation 3

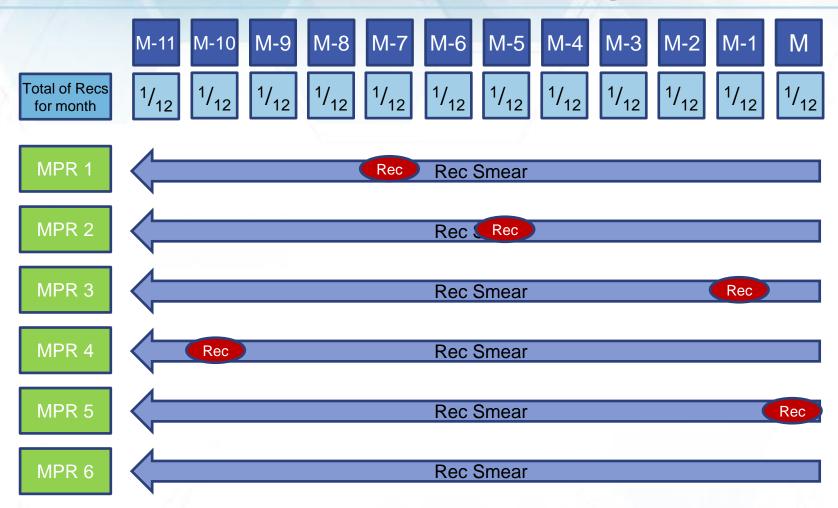
DAILY ALLOCATION UIG = newTotal LDZ daily Balancing UIG **Figure** Non-Daily Metered UIG is shared Energy across (stand-alone market calculation) using UIG **Factors** Daily Metered (DM) Energy LDZ Shrinkage

- AUGE determines Weighting Factors each year for sharing UIG
- · UIG shared on basis of daily Throughput and Weighting Factors



- All meter points are subject to individual reconciliation
- Equal and opposite of all individual reconciliations is applied to UIG and shared in line with latest measurements and Weighting **Factors**

Recap - Current UIG Rec sharing

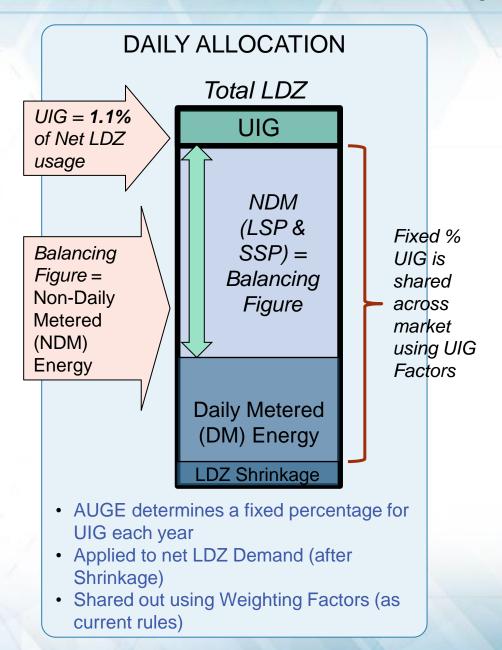


Total Rec energy is summed and divided by 12 to apportion across last 12 months market shares, as adjusted using UIG Weighting Factors.

Shared out regardless of Read/Reconciled status.

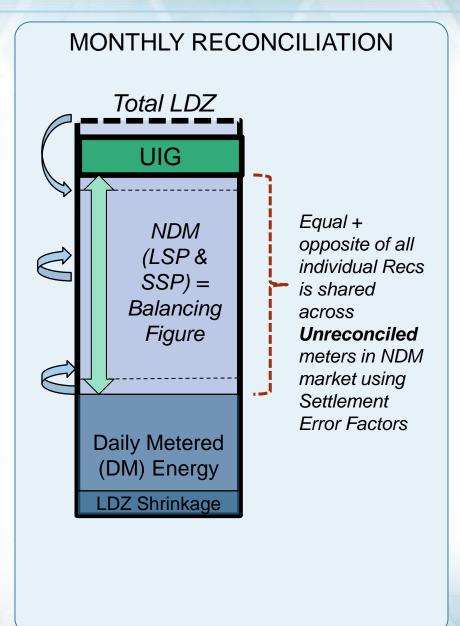


Modification 0642 – Fixed Daily UIG Percentage



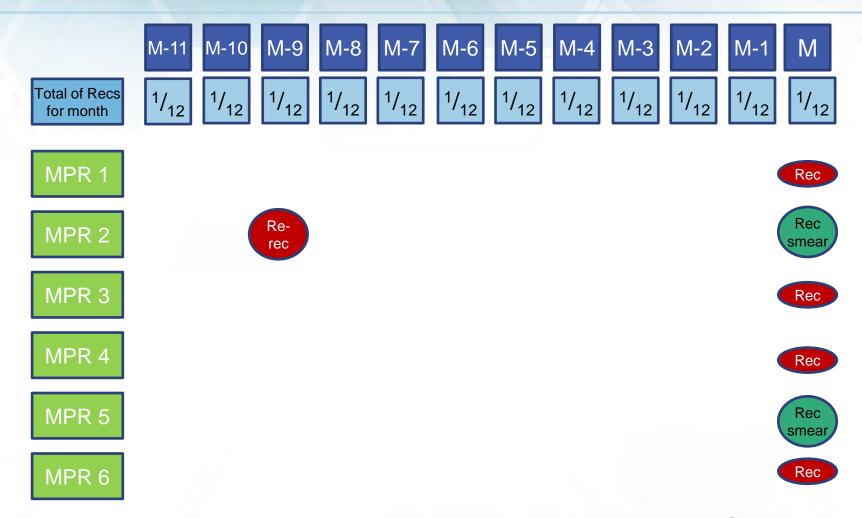
- Daily Allocation becomes a 5-step process
- STEP 1 measure total gas used in the LDZ
- STEP 2 deduct daily Shrinkage quantity
- STEP 3 calculate UIG as fixed 1.1% of LDZ Demand – Shrinkage
- STEP 4 calculate NDM Allocations as the balancing figure
 - Weather Correction Factor (WCF) reverts to pre-Nexus formula (i.e. not using weather data)
 - Scaling Factor (SF) reintroduced
- STEP 5 UIG shared out on basis of allocations using UIG Weighting Factors

Modification 0642 – Fixed Daily UIG Percentage



- Universal individual Meter Point rec still applies
- Daily UIG allocation is not re-opened by Rec
- Equal and opposite of all individual recs is shared to Unreconciled Class 3/4 only
- Sharing based on throughput for the Billing month of Unreconciled meters, adjusted using separate Settlement Error Weighting Factors
- One month pot (as opposed to current 12 month pot)
- Re-reconciliation of an earlier month's read does not remove from current month's sharing
- Extra test applies if Rec Energy
 (+/-) > Allocated Energy for the
 month for the qualifying MPRs in an
 LDZ, then smear to all sites,
 regardless of reconciled status

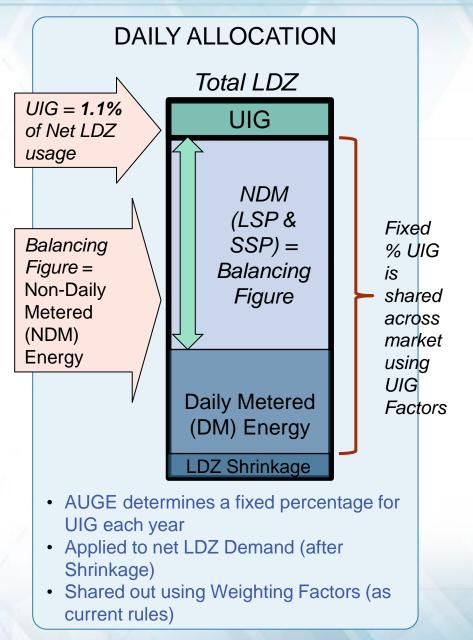
Mod 0642 Settlement Error Rec



Total Rec energy is shared out over current month's market shares, as adjusted by Settlement Error factors. Only Class 3/4 meters which have not had a Reconciliation in that month pick up a share of Settlement Error Rec.

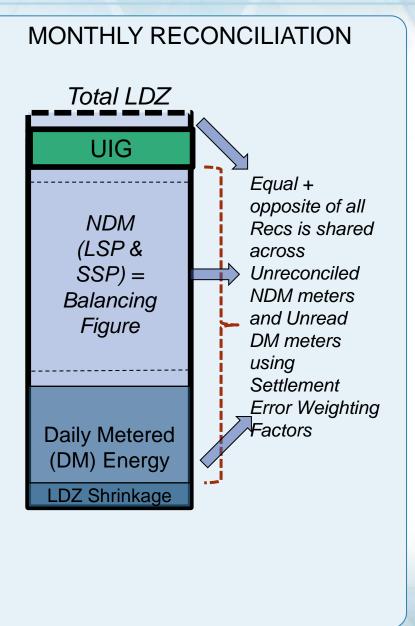
^{*} Extra test – if Rec Energy (+/-) > Allocated Energy for the month for the qualifying MPRs in an LDZ, then smear to all sites, regardless of reconciled status

Modification 0643 – Fixed Daily UIG Percentage₈



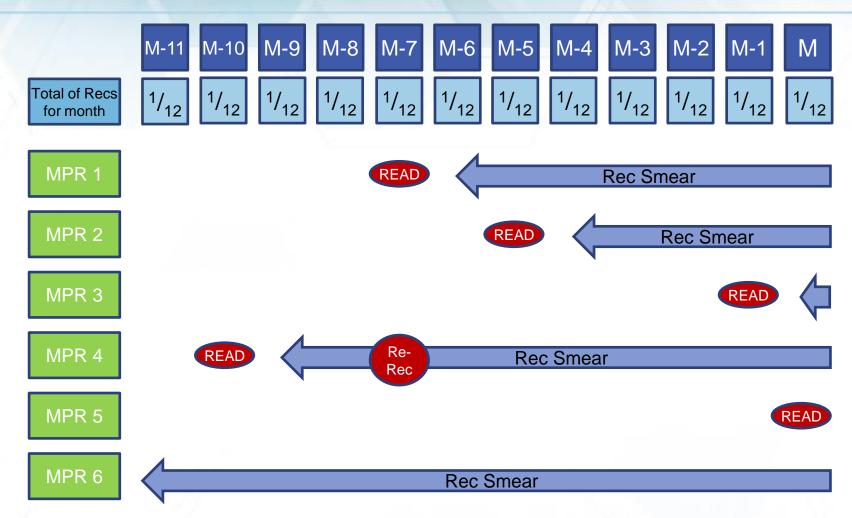
- (ALLOCATION PROCESS IS THE SAME AS FOR 0642)
- Daily Allocation becomes a 5-step process
- STEP 1 measure total gas used in the LDZ
- STEP 2 deduct daily Shrinkage quantity
- STEP 3 calculate UIG as fixed 1.1% of LDZ Demand – Shrinkage
- STEP 4 calculate NDM Allocations as the balancing figure
 - Weather Correction Factor (WCF) reverts to pre-Nexus formula (i.e. not using weather data)
 - Scaling Factor (SF) reintroduced
- STEP 5 UIG shared out on basis of allocations using UIG Weighting Factors

Modification 0643 – Fixed Daily UIG Percentage₉



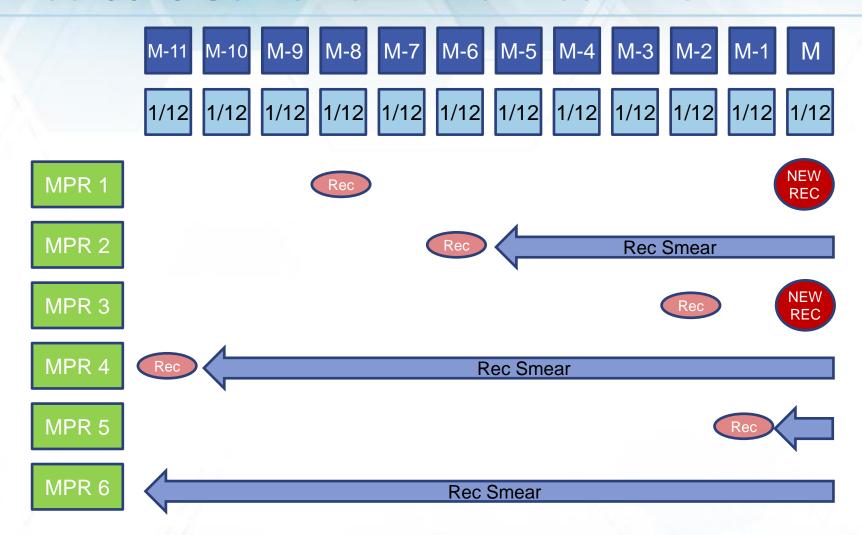
- Universal individual Meter Point rec still applies
- Daily UIG allocation is not re-opened by Rec
- Equal and opposite of all individual recs is shared to Unreconciled Class 3/4 and Unread Class 1/2 only
- Sharing based on throughput for Unreconciled/ Unread meters, using separate Settlement Error Weighting Factors
- 12 month pot, rec/read in this month removes site from all of previous 11
- Re-reconciliation of an earlier month's read does not remove from current month's sharing
- Extra test applies for each smear month and LDZ – if Rec Energy (+/-)
 > Allocated Energy for the month for the qualifying MPRs in an LDZ, then smear to all sites, regardless of reconciled status

Mod 0643 Settlement Error Rec - Month X



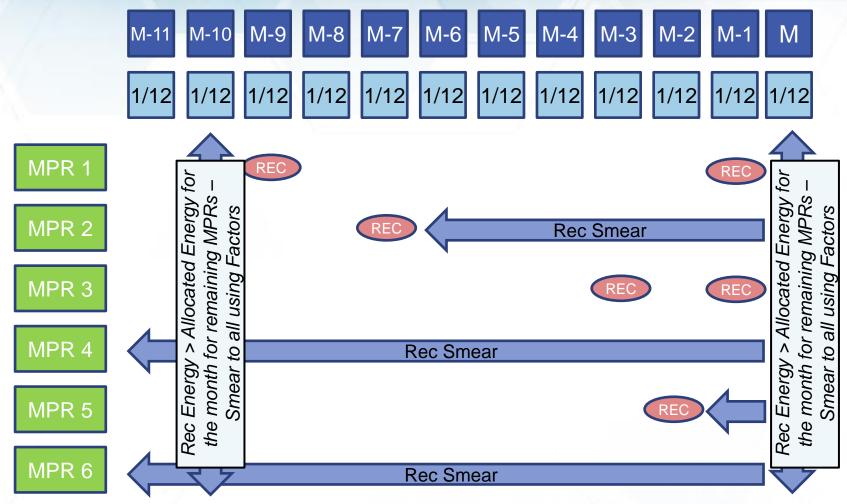
Total Rec energy is summed and divided by 12 to apportion across last 12 months market shares. Only meters which have not had a reconciliation in or since that month pick up a share of Settlement Error Rec. Here only 1 meter is still picking up Rec energy for the oldest month * Extra test – if Rec Energy (+/-) > Allocated Energy for each month and LDZ for those MPRs, then smear to all sites, regardless of reconciled/read status

Mod 0643 Settlement Error Rec - Month X+1



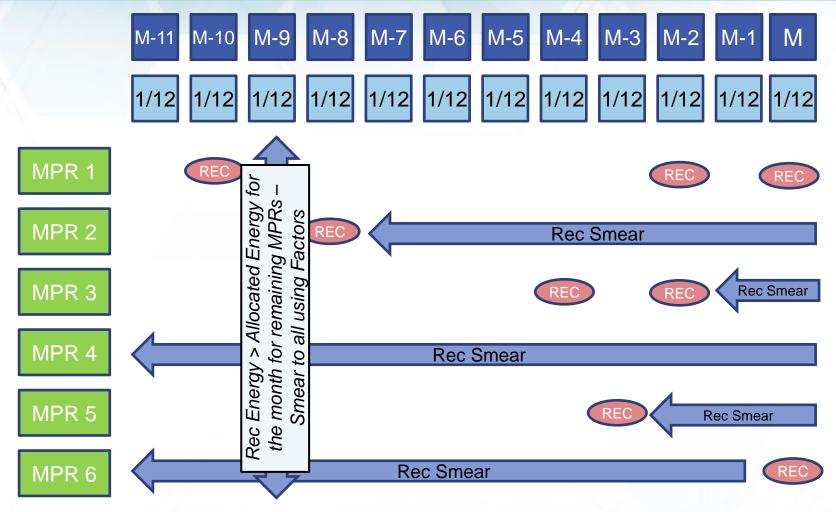
New reads received in the month remove that meter from earlier months' UIG shares. The oldest month's Settlement Error Rec will be smeared to an ever-decreasing pool of meters

Mod 0643 Settlement Error Rec - Month X+3



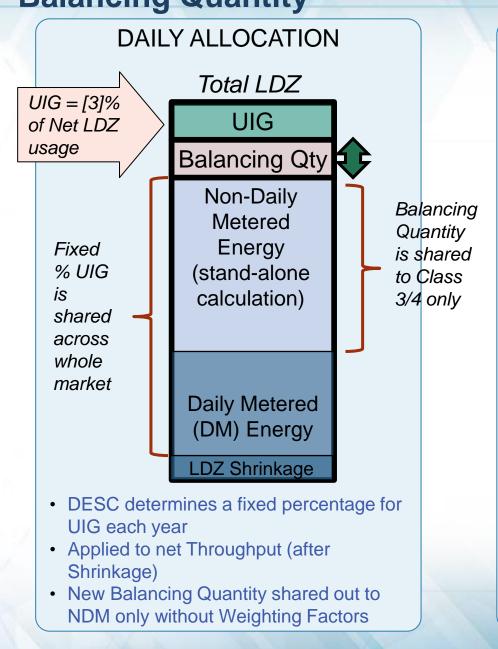
Extra test conditions have been met for current and 2nd oldest month – Rec Energy (+/-) > Allocated Energy for the month for those MPRs, so smear to all sites, regardless of read status (each LDZ considered separately each month)

Mod 0643 Settlement Error Rec - Month X+4



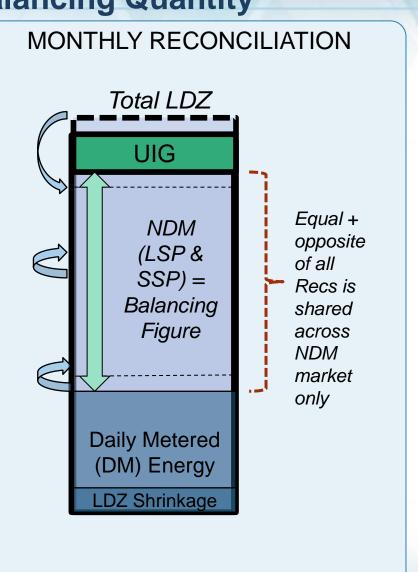
Extra test conditions have been met for a different month – Rec Energy (+/-) > Allocated Energy for the month for those MPRs, so smear to all sites, regardless of read status (each LDZ considered separately each month)

Modification 0642A – Fixed Daily UIG Percentage, plus Balancing Quantity



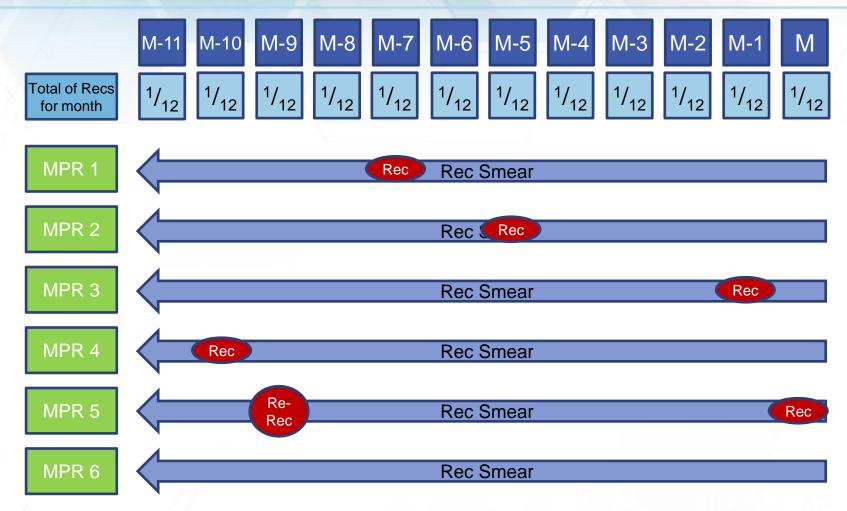
- Daily Allocation becomes a 5-step process
- STEP 1 measure total gas used in the LDZ
- STEP 2 deduct daily Shrinkage quantity
- STEP 3 calculate UIG as fixed [3]% of LDZ Demand – Shrinkage, shared to all sites (no Weighting Factors)
- STEP 4 calculate NDM Allocations using new Nexus Algorithm
 - Current Weather Correction Factor (WCF) i.e. using weather data
 - (Scaling Factor not required)
- STEP 5 new Balancing Quantity calculated and shared out on basis of allocations to Class 3 and 4 only (no UIG Weighting Factors)

Modification 0642A – Fixed Daily UIG Percentage, plus Balancing Quantity



- Universal individual Meter Point rec still applies
- Daily UIG allocation is not re-opened by Rec
- Equal and opposite of all individual recs is shared to Class 3/4 only
- 12 month pot, no Weighting Factors

Modification 0642A - Reconciliation



Total Rec energy is summed and divided by 12 to apportion across last 12 months market shares, without UIG Weighting Factors.

Shared out regardless of Read/Reconciled status.

Only change is removal of UIG Weighting Factors



Assumptions

• 0642/3:

- A Change of Shipper event in a month will remove the meter point from share of Settlement Error rec for that month, regardless whether the read is actual or estimated
- The UIG and Settlement error weighting factors can vary from LDZ to LDZ
- LDZ measurement errors (incl Shrinkage corrections) will not result in a change to UIG calculation but will be treated as Settlement Error rec
- Prevailing AUG Table Weighting Factors apply until AUGE can produce specific Settlement Error factors

• 0642A:

- The Fixed UIG % can vary from LDZ to LDZ
- LDZ measurement errors (incl Shrinkage corrections) will not result in a change to UIG calculation but will be treated as Balancing Quantity rec



Areas for further clarification

- Are the above assumptions all valid?
- Treatment of transition including:
 - Whether new Unreconciled/Unread rules applies to preimplementation months as well, or just post-implementation – i.e. is there an 11-month transition in rec smearing rules (0643)?
- Update to AUG Framework document required to inform a change to the current AUGE's service (or assess whether retender required)

