

## Review into the role of hedging contracts in the existing NEM prudential framework

**AEMC Forum on Draft Report** 

#### Outline



#### 1. NEM Objective undermined because:

#### Draft AEMC FOA formula fatally flawed:

- a) Places prohibitive inefficiency (and cost) on FOAs;
- b) AEMC's FOA risk/reward analysis ignored extensive futures based efficiencies for other NEM Participants (not just AEMO);
- c) Anti Competitive;
- d) Contrary to derivative market reform.

#### 2. Easily fixed: d-cyphaTrade provides amended FOA MCL formula

- a) FOAs will retain much more (and never less) MCL than reallocation;
- b) Optimises efficiency of FOAs for least cost outcome.

### 1. NEM Objective undermined



The AEMC's proposed **FOA MCL calculation is fatally flawed** and threatens to undermine major efficiency gains from FOAs.

Specifically,

AEMC's FOA MCL calculation limits FOA efficiency gains to a tiny fraction of "rewards" AEMO gives for AEMO reallocation.

This contradicts PWC risk advice and results in:

- Increased collateral requirement for retailers
- •Increased working capital costs for retailers
- Increase in costs will be passed on to consumers: this is not in line with the NEM Objective !!!

## 1(a) NEM Objective test ignored massive futures-related benefits to other Participants



NEM Objective test should consider benefits beyond those to just AEMO

- a) As PWC commented, Futures reduce credit risk while reallocations transfer credit risk to other [risky] off-market OTC arrangements
- b) i.e. maximum FOA uptake = massive risk reduction efficiencies outside of AEMO
- c) The AEMC draft MCL Formula *contradicts* this NEM-wide risk reduction efficiency benefit of FOAs

### 1(b) NEM Objective undermined



### Wider benefits to NEM (not just AMEO) from greater futures usage – ignored by AEMC Draft FOA formula

- Transparency (investment signalling, allows market monitoring by regulators);
- Credit risk reduction of hedges through daily mark to market margining;
- Superior compliance, fairness (market access) and regulatory oversight;
- Multi-counterparty hedge netting (eliminates collateral duplication);
- Clearing Participant credit support to participants;
- Increased hedge liquidity from centralised transparent market place;

Greater futures usage via FOAs also,

- Allows independent retailers to compete against Gentailers that are massively competitively advantaged by current MCL formula;
- Reduces generator market power (and pricing control) for reallocations;
- Reduces generator market power (and pricing control) for other hedges;
- Allows retailer's hedges to be immune from generator outages (avoiding catastrophic, cascading OTC default events such as **California electricity crisis**).

# 1(c) Anti-competitive behaviour against futures market



#### Draft AEMC MCL formula is anti-competitive against futures:

- a) Futures market prevented from competing equally against AEMO derivatives market;
- b) Imposes Anti-Competitive "penalty & cost" if futures used instead of OTC reallocations;
- c) Many retailers wont bother to use FOAs.
- d) Preferential AEMO treatment of reallocations force retailers to trade supporting OTC deals instead of futures (i.e. indirectly displacing futures liquidity);
- e) Proposed AEMO "swap and option" reallocations will <u>directly</u> displace futures liquidity;

### 1(c) Draft AEMC FOA Formula Contrary to derivative market reform



## Draft AEMC MCL formula defies best practice derivative reform.

- See US Treasury Reserve reforms in response to OTC credit defaults.
  - http://www.financialstability.gov/latest/tg\_05132009.html
- 1. All standardised OTC to be moved to licensed Clearing Houses to eliminate OTC credit risk;
- Non cleared OTC (like reallocations) forced to hold extra collateral postings in excess of futures due to additional credit risk of OTC;
- 3. Seeking international adoption by derivative regulators
- If reforms adopted in AUS, impact could be fatal for reallocation OTC market (and for good reason).



## Solution

Minor amendment to FOA MCL formula (see below)

# Solution: d-cyphaTrade suggests a slightly amended FOA MCL formula



- > AEMC should amend FOA MCL formula such that under FOA:
  - MCL covered by FOA = Retailer's FOA load x Max of (Futures Lodgement Price x 42 days or 2 x reallocation MCL)
- > Result:
  - Historically, 50% greater MCL than reallocation;
  - Never less than combined reallocation MCLs;
  - Prudential margin (PM) twice covered (at least) and hence consistent with intention of PM;
  - reduces the artificial discrimination against FOAs in comparison to reallocations and ensure FOAs are actually utilised, delivering efficiency gains to the NEM.

# Solution: d-cyphaTrade suggests a amended FOA MCL Calculation



d-cyphaTrade suggests modifying: s7.2. as follows:

For FOA load,

MCL = 
$$MAX$$
 [ [FLP x E2 x 42 days x LF x (GST + 1)],  
P x VF x E2  $X$  2 x Trp x LF x (GST + 1)]

#### Where:

- > Blue = MCL under FOA based on FLP x 42 days instead of 35 days,
- > Green = MCL "floor" equivalent to base load reallocation (i.e. 2 x PM)

# Preserved MCL under each FOA model Q2 2005 to Q1 2010

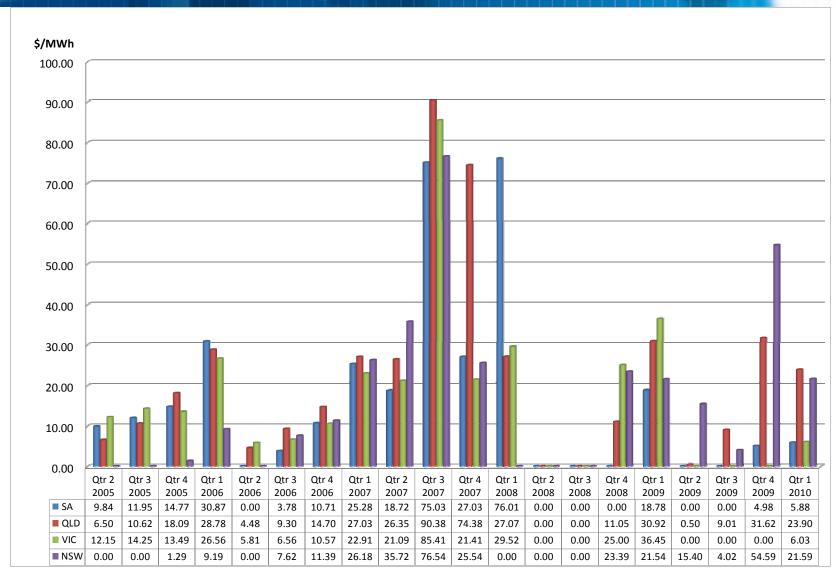


	Average MCL \$/MWh		ADDITIONAL MCL BURDEN placed on FOAs v.s. reallocation
Reallocation (2 x PM)	\$	36.44	-
d-cypha amendment MAX of (FLP or 2 x PM)	\$	54.56	50%
FOA with no additional PM	\$	49.94	37%
PWC FOA model with 1 PM	\$	59.84	64%
<b>AEMC draft</b> FOA model with 1 PM plus (PM-FLP)	\$	69.93	92% ??

Ignores GST and Loss Factor.

## d-cyphaTrade formula amendment FOA MCL in excess of reallocation MCL





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