





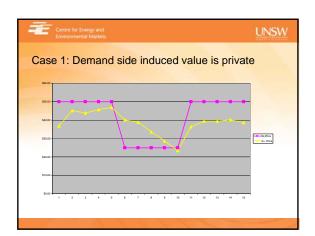
Centre for Energy and Environmental Markets	UNSW
Exercising Market Power	
Factors that have been shown experimentally to facollusion and the exercise of market power Multi-period repetition with the same group of participants Communication between parties The ability of parties to punish "deviation" from the collusi course. The existence of vertically related markets Significant market concentration. Significant search or transaction costs. Where a posted price or "by negotiation" institution is use Particularly if the market is small.	s. ive

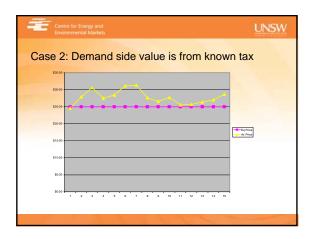


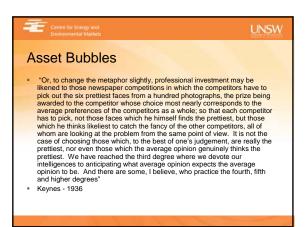


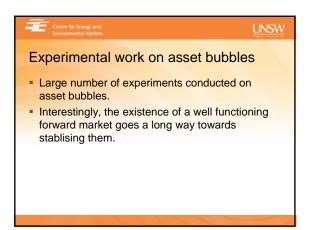
Experimental Evidence of impact of Grandfathering Current CEEM experiments Two treatments: Participants on supply side substantially grandfathered Participants on supply side had to create/earn all "credits" to sell Prices in first institution consistently much higher. No cost risk from not selling. More willing to withhold. Grandfathering can cause prices to go up.... Preliminary experimental results. (but consistent with Virginia ??)

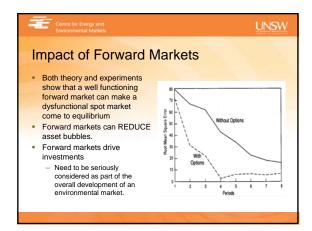
Example: Impact of form of demand side value induction (Asymmetric Information) Experiment has 10 participants, 5 retailers, 5 suppliers, all participants on each side of market of equal sizes. No banking/Borrowing "Hyper-competitive" environment. (1.5 suppliers at/above equilibrium price).

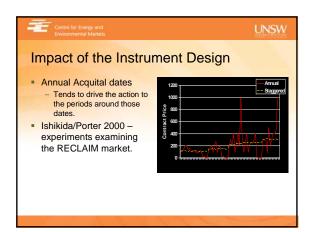








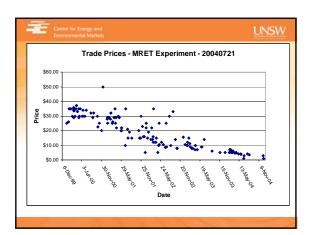


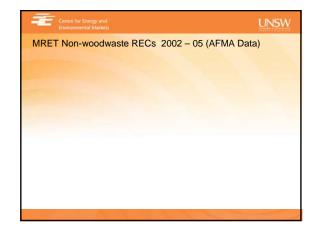


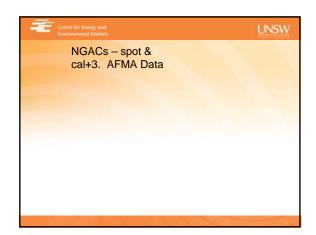


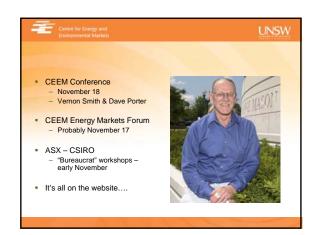
Relating all this to NGAS and MRET Small markets Highly concentrated Single participant created 46% of 2003 NGACs. Top 3 created 70% Repeated annual periods with stable cohorts Same participants also dealing in a vertically related market Anecdotal evidence of "buy and hold" Considerable grandfathering / non-additionality over 95% of 2003 NGACs were generated by plant that was commissioned before the start of the scheme Institution is essentially posted-offer with bilateral negotiation Institution most susceptible to poor price formation











Centre for Energy and Environmental Markets	UNSW
Thankyou and questions	
Many of our publications are available at:	