



LEARN HOW TO ANALYSE ELECTRICITY FUTURES & OPTIONS DATA

Attend a 1 day workshop to learn how to analyse electricity futures and options data for commercial purposes.

TRAINING FOCUS

The workshop will focus on learning how to quickly and effectively utilise electricity futures market data for reporting and decision making processes of relevance to:

- > Risk management of electricity derivative portfolios;
- > Calculating the implied cost of carbon trading on forward electricity pricing;
- > Hedge Accounting reporting, OTC credit default risk valuation and derivative trading performance;
- > Market price, liquidity and trend analysis relevant to trading and hedging strategy;
- > Energy project investment evaluation and financing;
- > Calculating NEM prudential support savings for NEM Retailers using Futures Offsets

The workshop will demonstrate information retrieval and analysis techniques using case studies with worked examples using d-cyphaTrade's online data centre and Microsoft Excel.

ELECTRICITY FUTURES DATA WORKSHOP

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DELIVERING
EXCHANGE TRADED
ENERGY DERIVATIVES
TO THE AUSTRALIAN
MARKET





ABOUT THE WORKSHOP

This workshop has been designed to raise awareness of the widespread practical uses of electricity futures market data for commercial purposes, ranging from trade decision making and OTC hedge accounting purposes to regulated retail price cap setting and energy project investment decisions. The workshop aims to provide a practical guide to retrieving and analysing electricity futures and options market data. Particular emphasis is placed on providing quick and effective techniques of interpreting, filtering and reporting relevant futures market information critical to decision making in the electricity and carbon trading sector.

BENEFITS & WHO SHOULD ATTEND

The workshop will be of benefit to electricity traders and their market electricity trading companies. Prime brokers, Clearing Participants and hedge fund risk managers will also find the price and volume data analysis techniques to be useful for risk monitoring. Investment and commercial banks, rating agencies and equity analysts will gain a practical understanding of the relevance of the electricity forward curve to the financial performance of companies and investment projects in the electricity and carbon sectors.

NEM Participants will benefit from:

1. Improved market analysis for: derivative portfolio management; best practice risk management and trading performance assessment; and hedge accounting
2. Improved information relevant to assessing M&A and new energy project investments
3. Calculating cost savings from NEM prudential "Futures Offsets"

Commercial and Investment Banks will benefit from:

1. Using electricity futures market data to support client services (futures clearing, execution, hedge services) to electricity and carbon intensive industries;
2. Using electricity futures market to assist merger and acquisition decisions in energy and carbon intensive sectors;

Hedge Funds and other **Institutional Investors** will learn how to:

1. Analyse electricity futures market data to identify price history trends, VaR, liquidity statistics and determining relative value between historical futures volatility and implied options volatility;
2. Comparing inter-regional and inter-commodity price spread history relevant to relative value modelling.

ABOUT THE PRESENTERS

DEAN PRICE | GENERAL MANAGER

Dean has traded futures and Over the Counter (OTC) contracts for 13 years as a proprietary trader across a diverse range of Australasian markets, prior to joining d-cyphaTrade in 2004, including options market making on the SFE's open outcry options pits from 1991 to 1998, for Deutsche Bank and Fay Richwhite (Merchant Bank). From 1999 to 2004, was responsible for managing Duke's physical electricity generation portfolio and financial trading team, trading OTC and exchange traded derivatives and physical generation dispatch in the Australian National Electricity Market. Dean has built an extensive network of front office and senior management energy trading and intermediary contacts.

MELISSA TAN | CLIENT SERVICES MANAGER

Melissa has managed the d-cyphaTrade online data centre since July 2006. She holds a degree of BA in Economics and a Graduate Diploma in Applied Finance. She has project managed electricity futures data analysis projects for numerous industry participants and regulatory agencies during the last 2.5 years. Melissa is responsible for analysis and reporting of market liquidity and price statistics for d-cyphaTrade's weekly Market Wrap and periodical Market Focus liquidity reports.



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WORKSHOP DETAILS

DATE:	TBA
PRESENTERS:	Dean Price General Manager Melissa Tan Client Services Manager
VENUE:	TBA
DURATION:	9am – 3pm (6 hrs)
FEES:	AUD \$1,195 (ex GST) pp To organise an in-house workshop please call d-cyphaTrade on 1800 330 101.
MATERIALS:	Workshop notes, usb with worked examples & sample data, refreshments & lunch

WORKSHOP CONTENT

>	Course Introduction and Objectives
>	DC Online Information resources
>	Trade Log history, Online price calculator, Data Mine queries, Individual Product History, Charting, Market bid/offer snapshot
>	Using Excel with DC data
>	Importing DC data into Excel, Charting volume and price data, Price volatility Analysis, Sorting and filtering DC data using TEXT functions, Analysing option trades using “Option Greek formulas”, using VLOOKUP to determine trade MW Hours
>	Excel Pivot Table queries for electricity
>	Creating a DC data Pivot Table with electricity field lists
>	Analysing trade history by region, duration, shape
>	Analysing Liquidity by trade type (Block, EFP, Strip)
>	Analysing Traded Price ranges over time
>	Commercial Uses of DC data – putting it all together
>	Traders, Market Analysts & Industrial electricity consumers
>	Contract price history and trend analysis
>	Calculating & analysing historical v.s. implied option volatility
>	Online strip-trade calculator for brokers, traders and reporting
>	Trading Risk Management/Settlements
>	Daily P&L and margin calculation, Liquidity analysis, VaR analysis using futures price history
>	Treasury and Credit Risk Managers
>	Hedge accounting for OTC using futures and options
>	OTC Credit Risk benchmarking using futures curve
>	Measuring Trading Performance/opportunity costs
>	NEMMCO Futures Offset savings calculations for NEM Retailers
>	Project Financing, Equity Analysts & Ratings Agencies
>	Implications/considerations for banks/project financiers
>	Profit and cash flow forecasting using DC data
>	Electricity hedge costs/revenues for retailers, generators and electricity-exposed industrials
>	Comparing regulated tariffs (retailers) to “hedge cost reality”
>	Identifying cash flow/profitability “danger periods” using futures prices
>	Valuing the Emissions Trading Scheme impact (now) on energy participants
>	Regulators/government agencies
>	Using DC data to set regulated retail price tariffs;
>	Using DC data to identify/pre-empt:
>	Physical Market power/control issues;
>	Incentives for power market misconduct;
>	Appropriate regulatory response
>	Emissions Trading Regulation - quantifying financial impact on electricity consumers, retailers and generators
>	Other challenges/insights for regulators

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