

Markets & Nodal Pricing

TRAINING COURSE

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Providing a detailed understanding of the NZ electricity market and nodal pricing mechanisms.

COURSE OVERVIEW

This full-day course provides attendees with a detailed understanding of the NZ electricity market and nodal pricing mechanisms. The course utilises examples and concepts to enable attendees to understand real-life pricing situations.

The course is suited for those familiar with the electricity market but need a more detailed knowledge of nodal pricing.

Note: This course builds on the concepts introduced in our 'Electricity Industry Fundamentals' course, which provides a comprehensive overview of the industry and is recommended as a pre-cursor for those attending this course.

COURSE TOPICS

- **Introduction to Nodal Pricing**
 - Overview of Terminology used in Nodal Pricing
 - Market design i.e. SPD, RTD and shadow prices
- **Simple Network examples, showing effect on dispatch and nodal prices of:**
 - Energy offers
 - Reserve offers & IRAFs
 - Line Losses – linear VS quadratic losses
- **Complex Network examples, showing effect on dispatch and nodal prices of:**
 - Constraints on Energy
 - Constraints on Reserves
 - Constraints on Lines including loop & spring washer effects
 - HVDC link constraint
- **Pool Surplus**
 - Definition, history, contributors
 - Surplus generated by line constraints
 - Surplus generated by HVDC setting reserve risk
- **Financial Transmission Rights (“FTRs”)**
 - Definition and need
 - Simple FTR example
 - FTR example taking into account losses

**CONTACT US FOR A QUOTE
TAILORED TO YOUR SPECIFIC NEEDS**

COURSE FEES

Our courses provide excellent value for money. – **Fees start from only \$495 per person**, for a minimum of 10 attendees (in-house venue).



TRAINERS

Our trainers are industry experienced, professional and friendly. We encourage interaction and participation from course attendees.



IN-HOUSE OR HOSTED COURSES

We can run courses at client venues or suitable arrange external venues.

TAILORED COURSES

We can tailor a course to meet your team's specific training needs.



OUR OTHER COURSES

Brightspark also runs courses for:

- Electricity Industry Fundamentals
- Introduction to Emissions



CONTACT US TO SEE HOW WE CAN DELIVER YOUR TRAINING NEEDS.

Contact us at: info@brightsparkconsulting.co.nz, or call **David** on 027 2 363 749, or **Lesley** on 021 213 3421.

Brightspark

Energy & Emissions Consulting