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FINANCING WIND ENERGY

LIVE ONLINE TRAINING

Sep2021

Course Parts will commence at **11:30** and end at **14:00 (AEST)**. There will be short breaks during each course Part.

Part 1: 16th September

Part 2: 17th September

Part 3: 23rd September

Part 4: 24th September

4 Part Series



**Our Expert
Course
Instructor**



Julian Roche began his career with the UK Government as an economic analyst, specialising in foreign trade, energy and economic modelling. He subsequently joined the mainstream Civil Service fast stream, where he specialised in major privatisations and procurement at the time of the development of Public-Private Partnerships. He then returned to economic analysis in the private sector as a divisional forecasting head for what later became Global Insight.

Key Learning Objectives

- ▶ Understand how to model wind energy production.
- ▶ Learn cost structures for wind projects and the competitiveness of wind energy production.
- ▶ Evaluate comparable government support and regulatory environments for wind power in Asia Pacific across multiple jurisdictions.
- ▶ Review the contracts required for both offshore and onshore wind.
- ▶ Analyse the global wind turbine market.
- ▶ Study corporate and project finance structures for offshore and onshore wind projects
- ▶ Be able to conduct due diligence on a wind power project.
- ▶ Integrate wind and energy storage in a comprehensive grid and off-grid power solution.
- ▶ Audit wind financial models.

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ABOUT THE COURSE

The objective of this course is to provide a concentrated approach to the financing of wind projects. Beginning with how to calculate wind energy production and its associated risks, the technology of wind turbines and their deployment throughout Asia Pacific. The course then reviews costings and comparable energy production sources and the current state of the industry, in order to use forecasts to examine the future trajectory of the industry. Delegates then review renewable energy fund investment structures, taxation implications and fund performance.

The next stage of the course is to investigate the legal agreements required for wind energy, whether with landholders, governments, or the offtake arrangements that are frequently put in place with corporate users. The core of the course involves detailed study of the components of wind project cost of capital: bank and other corporate and project finance debt, equity and international agency financing arrangements. Delegates then compare valuation methodologies for offshore and onshore wind projects, before proceeding to conduct due diligence on a number of actual projects in Asia Pacific which have been funded in a range of ways, including through bond issuance.

The final stage of the course is for delegates to put this knowledge into practice by comparing and auditing wind financial models, including applying a range of risk techniques to the wind power and financial structures assumptions involved, in order to determine realistic outcomes for the projects under consideration.

EXPERT COURSE INSTRUCTOR



Julian Roche began his career with the UK Government as an economic analyst, specialising in foreign trade, energy and economic modelling. He subsequently joined the mainstream Civil Service fast stream, where he specialised in major privatisations and procurement at the time of the development of Public-Private Partnerships.

He then returned to economic analysis in the private sector as a divisional forecasting head for what later became Global Insight. After having worked on a range of derivative contracts for in the City of London, in 1991 he set up his own consultancy, where he acted inter alia for a number of years as senior consultant to a venture capital company guiding tech investments, and subsequently advised developers and energy companies on finance and modelling, and UNCTAD, the World Bank and governments on global investments and trade.

He regularly publishes and conducts courses on a range of financial topics including renewable energy, financial modelling, project finance, venture capital, and valuation to international firms, banks, and public sector agencies including central banks and sovereign wealth funds.

Julian holds a first-class degree in Philosophy, Politics and Economics from Oxford University and amongst other higher degrees, a PhD in risk management from Deakin University.

WHO WILL BENEFIT

The sizeable capex investments required for wind energy, combined with the complex legal agreements that are also often necessary, has meant that both technical and financial expertise about the wind market has often been concentrated within large organisations.

This course by comparison is designed for all those who need to gain a comprehensive understanding of the funding sources and execution of wind power projects in Australia and the Asia-Pacific region. The step-by-step method of training allows those without prior experience of finance or financial modelling to gain as much from the course as all other participants.

The course will therefore benefit project developers and managers and engineers, wind power specialists, accountants, as well as those working in corporates engaged in wind offtake projects. The course is also designed to benefit lawyers, accountants and bankers, as well as investors, economists, regulators, and those involved with the development of solar energy policy within government and local communities.

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Course Outline

Modules 1 and 2: The Wind Energy Market

Wind energy development

- Wind energy modelling (including P90/75/50 and seasonality)
- The development of turbine technology
- Installation and deployment phases for wind projects
- Integrating wind projects and the Grid in Asia-Pacific
- The development of battery storage: implications for wind projects
- Examples of successful wind projects

Analysing wind project costs

- The cost of wind projects: Capex, Opex and ramp-up
- Offshore and onshore wind LCOEs compared to other energy sources in Asia-Pacific

Case Study: *Forecasting wind LCOEs in Australia, Japan, South Korea, Taiwan, and Vietnam*

International comparison of wind project regulation

- Overview of environmental regulations
- Land issues for onshore wind

Case Study: *Legal issues in landowner agreements*

- Offshore lease agreements
- Tax structures and subsidies in Asia-Pacific
- Managing wind energy projects

Balance-sheet financing for wind

- Financing for investor-owned utilities, power marketers and turbine manufacturers
- International access to wind investment equity capital
- The cost of capital for wind projects

Case Study: *International development agency support for wind projects – how does the Asian Development Bank compare to other organisations?*

- Accounting principles and practice for wind energy projects
- Valuing balance sheet wind investors
- Empirical evidence on wind investor valuations in Asia-Pacific

Case Study: *Siemens, turbine manufacturer and wind energy giant*

Modules 3 and 4: Financial structures for wind energy projects

Project finance structures for wind power

- Principles behind wind project finance
- Risks of wind project development

Group Exercise: *Preparing a risk map for a wind development*

- Wind energy offtake agreements as risk mitigants
- Evidence on project finance for wind in Asia-Pacific
- Bank lending to wind projects – lending criteria in theory and practice

Group Exercise: *Presenting a wind project to the bank – similarities and differences between Asia-Pacific jurisdictions*

- Wind project bonds and their markets
- Secondary markets for wind debt

Wind financial models

- Excel for financial modelling
- Translating wind forecasts into financial model inputs
- Structuring an offshore and onshore wind model
- Dealing with rising costs and offtake pricing
- Accounting, depreciation, and tax in the model
- Integrating risk into the model
- Modelling reserve accounts for capex and risk

Group Exercise: *Analysing a wind project feasibility study*

Course Conclusion

Would You Like To Run This Course On-Site?

Informa Corporate Learning: On-site & Customised Training

If you have **8+** interested people, an onsite course can be an ideal solution. Speak with **Anton Long** on **+61 481 995 653** or **Holly Baldwin** on **+61 450 866 597** to discuss your customised learning solution, or email training@informa.com.au

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Easy Ways to Register

1 Web
www.informa.com.au/financingwind

2 Telephone
+61 (02) 9080 4032

3 Email
training@informa.com.au

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Financing Wind Energy - Live Online Training

Course Code	Location	Course Parts	Month	Standard Price	4+ Dels Discount
P21GR53AUV	Live Online Training	All 4 Parts	Sep 2021	\$2,095 + \$209.50 GST	\$2,304.50 Great Savings: When you book 4 or more participants! Call us today on +61 (2) 9080 4032 or email training@informa.com.au to take advantage of the discount offer.

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Please visit us online at www.informa.com.au/privacy for a full privacy policy. Database amendments can be sent to database@informa.com.au or phone **+61 (0) 2 9080 4017. ABN: 66 086 268 313**

Informa Corporate Learning – On-site & Customised Training

Informa Corporate Learning has a long-standing track record of delivering very successful customised learning solutions achieving real and measurable value for our clients through our senior training consultants.

If you have 8+ interested people, an on-site course can be the ideal solution – giving you the opportunity to customise our course content to your specific training needs, as well as attracting significant savings compared to public course costs.

Why Choose On-site With Informa Corporate Learning?

- 1. Custom design** – Together, we will identify the best blended learning solution for your culture, your people and your training objectives.
- 2. Quality Assured** – We design market-leading training programs, concepts and methodologies, with a 400+ course portfolio. Our rigorously selected 900+ instructor faculty are recognised experts in their field. Quality of their content and delivery methods is assured through continuous monitoring and evolution.
- 3. On-site training** is a cost effective way to train your people and achieve your defined outcomes.

Our Long Standing Clients Include:

ActewAGL, Ajilon, Ambulance Victoria, ANU, Arrow Energy, Australian Super, Barrick, BHP, Chevron Australia, Coffey International, ConocoPhillips, CSIRO, Dalrymple Bay Coal Terminal, Department of Education, Department of Planning, Electricity Generating Authority of Thailand (EGAT), ENI Australia, EY, Fortescue Metals Group, Health Purchasing Victoria, IBM, IP Australia, Jemena, Litmus Group, Metro Trains, Office of the National Rail Safety Regulator, Origin Energy, Pacific National, PT Freeport, Public Transport Authority – WA, QGC – BG Group, Queensland Rail, Rio Tinto, Romgaz, SA, South Australia Health, Telstra, Transport & Infrastructure, UBS, Woodside and more...

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