

Hatta Misra

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Summary

Energy markets analyst with specialised experience in Australian and Asia-Pacific electricity markets and battery energy storage systems. Experienced in programming languages and data analysis.

Experience

Baringa – Consultant, Market Fundamentals and Transactions

2026/01 – present

- Modelled the Australian National Electricity Market (NEM) and other Asia-Pacific electricity markets using PLEXOS to project the financial performance of energy assets and changes in market dynamics.
- Researched and analysed energy policy and market developments as part of modelling development scenarios for energy markets to analyse investment cases for energy assets.
- Wrote reports including data-driven narratives based on modelling results, supporting asset transactions valued at over AUD 1 billion involving major Australian banks and investment funds.
- Created Python and Excel/VBA tools for statistical analysis and modelling data processing/visualisation.

Modo Energy – Analyst, Australia

2024/12 – 2025/11

- Produced multimedia research reports analysing the NEM with a focus on battery energy storage (BESS).
- Analysed and visualised NEM data using Python, SQL, and Excel to provide data-driven insights on BESS operations, development, and investment cases.
- Researched NEM market characteristics, policy, and regulations to develop BESS benchmarking and energy markets forecasting products.

Baringa – Analyst, Market Fundamentals and Transactions

2023/03 – 2024/12

- *See above.*

ERM Energetics – Graduate Consultant

2021/11 – 2023/02

- Analysed clients' energy consumption and invoices using the Envizi data analytics platform.
- Created Python and VBA tools to validate and verify electricity and waste bills.

University of Sydney – Tutor, Faculty of Engineering

2019/03 – 2022/04

- Guided students through semester-long engineering design projects.
- Led discussions in 1 and 2-hour tutorials of practical case studies relating to engineering competencies.
- Assessed student reports, giving detailed and constructive feedback while meeting marking deadlines.

SigmaHeat GmbH – System Simulation Intern

2021/07 – 2021/11

- Analysed measurement data of home heating systems using Python (with Pandas, NumPy, Matplotlib).

University of Sydney – Summer Research Intern, School of Civil Engineering

2020/12 – 2021/03

- Simulated the reinforcement behaviour of plant roots in soil using C++ and Project Chrono.
- Analysed simulation data using Excel, and compared simulation results to existing experimental data.

Education

Bachelor of Engineering Honours (Mechanical) – University of Sydney

2017/08 – 2021/09

Major in Materials Science and Engineering. Honours Class II, Division 1.

Vice Chancellor's International Scholarship.

Skills

- **Core technical skills:** Python (Pandas, Poetry), SQL, PLEXOS, Microsoft Excel (VBA, PowerQuery)
- **Other technical skills:** C/C++, MATLAB, Mathematica, LabView, Git
- **Productivity:** Microsoft Office, Google Workspace (G Suite), LaTeX, Zotero
- **Other specialist software:** Envizi, SolidWorks, ANSYS, AutoCAD, Project Chrono
- **Languages:** English (C2), Indonesian (C2), Malay (C1), Spanish (A2)

Interests and hobbies

Worldbuilding, tabletop role-playing games, board games, linguistics, science fiction, detective fiction