ANDREAS STRATIS
Power Analyst

👤 PERSONAL DETAILS

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✎ WORK EXPERIENCE

Power Analyst
Shell/Limejump, London (May 2020 - Present)

- Development & performance monitoring of short-term trading algorithms for flexible generation assets.
- Development of constrained optimisation models (MILP) for batteries to maximise profits across multiple revenue streams (e.g. Wholesale Trading, Ancillary Services, Balancing Mechanism).
- Development & maintenance of standalone Python applications (using Docker Containers), managing their excecution with container orchestration systems (AWS ECS, Kubernetes) across multiple environments.
- End-to-end design & development of ETL pipelines for data collection within AWS Storage Services (AWS S3) & interactive querying through AWS Athena, etc.
- Ad-hoc analysis, pricing & risk modelling including calculating risk premiums for PPA products.
- Development of long-term probabilistic generation forecast models to support pricing requests.
- Design, development and maintenance of various analytical & automation tools for the power trading desk.
- Supporting the development of web applications using available web frameworks.

Pricing Analyst - Asset Optimisation
SmartestEnergy, London (Aug 2018 - Apr 2020)

- Development of long-term pricing valuation models for flexible generation assets.
- Development of pricing models for ancillary electricity markets.
- Development & maintenance of tools for supporting short-term trading activities (generating trade entries, validation of invoices, management of operational & technical constrains, etc)
- Building tools for forecasting & analysing market volume movements to support short-term trading strategies.
- Development & improvement of asset optimisation models for various generation/demand assets, e.g. gas peakers, co-located assets, demand reduction sites.
- Supporting the development of web applications using available web frameworks & libraries (Flask/Highcharts).
- Development and maintenance of ETL pipelines for static and dynamic data access throughout the business.
- Automation of Operational tasks (e.g. performance reporting, automated customer emails, etc.)
- Supporting Head of Markets with RFPs, tenders and auctions.
- Automating reports on short-term trading performance.
- Providing pricing support across a wide variety of standard and non-standard products.

Assistant Operations Manager
KiWi Power, London (Mar 2018 - July 2018)

- Managing KiWi's operational platform, client portfolio and programmes (both UK and International).
- Initiating demand response events, monitoring performance and resolving issues.
- Generating performance reports; managing client performance and addressing client under-performance.
- Providing customer service and maintaining client relationships.
- Developing tools for optimising daily tasks and processes.
- Providing in-depth analysis of tender results of DSR programs and price recommendations for future tenders/auctions.
- Creating, developing and improving new and existing smart management features for the IT platform.
- Assisting the research and implementation of new programmes.
- Building procedures for extracting data from various platforms.
- Providing monthly & yearly reports on the performance of Operations team.
- Providing ad-hoc reports and statistics.
- Process evaluation and improvement.

✏️ WORK EXPERIENCE

Operations Systems Analyst
KiWi Power, London (Mar 2017 - Feb 2018)

- Initiate and monitor UK demand response events.
- Client performance analysis & reporting.
- Developing tools for optimising daily tasks and processes.
- Developing tools in Python for data collection & communication to clients.

Sustainability Analyst
Stedin Network Operator, Rotterdam (Aug 2016 - Dec 2016)

- Identify the sustainability improvements in the design & manufacturing of smart electricity & gas meters.
- Road-map development for an environmental and social sustainability tool which estimates the fairness levels of smart electricity & gas meters.

Energy Analyst (Part-Time)
Spectral Utilities, Amsterdam (Jun 2016 - Aug 2016)

- Assisted in the development of a data collection strategy for energy monitoring of various assets.
- Analysis and visualisations of large energy data sets & historical data related to the power consumption levels of commercial customers in order to provide them with technical consultancy on peak shaving solutions.

Demand Response Analyst (MSc Thesis Project)
TNO Research Institute, Hague (Nov 2014 - Oct 2015)

- Assisted in the development of a co-simulation platform for Demand-Side Response on Low Voltage networks using a Java-based Demand Response tool (PowerMatcher) and a Python based load flow analysis tool (*PyPower*).
- In-depth analysis of the correlation between domestic DSR and the physical characteristics of power grids.
- Realisation of the potential of using a demand-side management solution for voltage regulation in power grids.

📄 EDUCATION

MSc in Sustainable Energy Technology
Delft University of Technology, the Netherlands (Sep 2013 - May 2016)

BEng & MEng in Electrical & Computer Engineering
Democritus University of Thrace , Greece (Sep 2006- Oct 2011)

📄 OTHERS

Working Group Expert - Flexible Generation
European Technology and Innovation Platform Smart Networks for Energy Transition (Sep 2020 - Now)

- https://www.etip-snet.eu/about/working-groups/wg-3/

Business Advisor
Transforming Construction Impact Programme - UKRI (Mar 2021 - Now)

- Advising a team of researchers, working on domestic thermal storage solutions, on market desirability & potential.

Finalists in ''UKPN Charge Challenge" Competition
UK Power Networks (Jul 2020)

- Data Science competition to predict areas with high requirements for EV charging stations in the next years. Report: https://innovation.ukpowernetworks.co.uk/wp-content/uploads/2020/10/ChargeChallenge_Report_Stratis_Pournaras.pdf