

# Oliver Garnett

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## **ENERGY AND ENVIRONMENTAL ECONOMICS, INC.** *Senior Associate*

San Francisco, CA

Mr. Garnett joined E3 in 2017 after completing his Master of Economics and Policy of Energy and the Environment at University College London (UCL). He specialised in energy system modelling, microeconomics, and energy econometrics and undertook his dissertation on distributed off-grid solar in East Africa. He brings with him experience from across the energy industry from demand response aggregation in the UK, to data acquisition and analytics for a multi-national oil field services company, to project management for a biomass start-up in East Africa. Mr. Garnett also has modelling experience in python, R and MATLAB and holds a Master of Science degree in Chemistry from Imperial College London where he researched the design of thin-film photovoltaic cells. Since joining E3 Mr. Garnett has been involved in a range of projects, including:

- Updating and improving a CNG cost allocation tool to calculate the rate for compression services for a large natural gas distribution company in California. He worked alongside the client to ensure rates accurately capture the cost of providing natural gas compression services without cross-subsidisation between public and private facilities.
- Currently developing a scenario-based planning model to analyse the impact of charging infrastructure on electricity sales for a Canadian Utility. He vetted the client's analysis on how their charging infrastructure program will impact the local EV market through a thorough literature review.
- Performed an in-depth evaluation of resource adequacy pricing in the near term for natural gas assets in load constrained pockets of California on behalf of a large infrastructure fund.

## **KIWI POWER** *Demand Response Analyst*

London, UK  
April 2017 – September 2017

KiWi Power is the UK's leading demand response aggregator. Whilst studying at UCL worked part time within the operations team monitoring sites across the UK that participate in demand response programs offered by the National Grid such as the Short-Term Operating Reserve (STOR), the Capacity Market, and Frequency Response programs.

- Monitored the UK portfolio; around 150MW of capacity installed in over 50 sites across the UK and provided operational support to the French team.
- Liaised directly with clients and the national grid to ensure efficient delivery of sufficient load reduction during demand response events.
- Worked with the technology team to aid the transition to a new software platform.

## **INYENYERI** *Project Manager*

Kigali, Rwanda  
July 2016 – September 2016

Interned at a clean cookstove and biomass startup with a novel utility-style business model that offers an affordable, clean, and modern cooking experience to low income consumers in Rwanda.

- Managed a \$10M grant application for which Inyenyeri was the lead applicant with 12 partner organisations.
- Created a discounted cash-flow model to forecast our customer base expansion under different joint-venture and franchising scenarios.

**BAKER HUGHES INC.**

*Field Engineer*

Aberdeen, UK

September 2013 – July 2016

Joined the graduate program for the drilling services product line, specialising in the acquisition, processing, and analysis of surface and logging data during drilling operations. Rotated through different office and rig-site roles.

- Extensive offshore experience in surface and sub-surface data acquisition with 8 operators; one award for exceptional service.
- Selected for a competitive pricing analysis project; used data from 11 wells to optimise pricing for new performance-based contracts. The analysis was used to the UK product line's largest client.
- Re-designed a depth calibration model used worldwide across the company
- Selected to work as an onshore operations coordinator for a new client, completing four wells. Responsible for operations planning, field engineer management, equipment procurement and logistics. Formed a strong client relationship and negotiated a service upsell which added 8% in revenue to one well.
- Re-structured the deliverables quality control department, cutting operating costs by 23% and significantly improving departmental KPIs.
- 4 months training in Dubai including; O&G overview, leadership, multiple technical courses (top of the class for 4/6 courses).

**RIVERSTONE HOLDINGS LLC**

*Analyst*

London, UK

Summer 2011

Private equity firm targeting the renewables, and oil and gas sectors.

- Identified and evaluated potential opportunities in the European gas storage market.
- Through financial modelling and research, informed investment decisions on two projects; biofuels in Ukraine and shipping in Asia.

Education

University College London

*MSc Economics and Policy of Energy and the Environment*

London, UK

September 2017

- Dissertation: *An analysis of cross-sectional variations in off-grid household electricity consumption in rural Rwanda*
- Notable modules: Environmental and Resource Economics, Advanced Energy System Modelling, Econometrics for Energy and the Environment, Planetary Economics and the Political Economy of Energy and Climate Change
- Energy Development Group member: Connecting UCL to research and consulting opportunities in development

Imperial College London  
*MSci Chemistry*

London, UK  
 June 2013

- Final year research in designing thin-film photovoltaic solar cells. Awarded for best final year research presentation.
- Notable modules: Photovoltaics, Green Chemistry, Fuel Cells, Advanced Math, and Physics
- Master classes at Imperial Business School: Modern Finance, Business Strategy, Leadership

## Publications

Wood, S., Garnett, O., Tokmoldin, N., Tsoi, W.C., Haque, S.A. and Kim, J.-S., "In situ formation of organic-inorganic hybrid nanostructures for photovoltaic applications" *Faraday Discussions*, 174, 2014

## Citizenship

United Kingdom  
 United States