Ioanna Gkolemi

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SUMMARY

As an independent professional, I draw upon experience of 12 years working as an environmental economist to deliver studies in a broad spectrum of areas in the water, environment, energy and resources context and beyond. I bring strong expertise in economic appraisal, investment impact evaluation, environmental and resource economics, water economics, decision support analysis and market & supply chain analysis. Experienced in delivering studies at a project and policy level for various public and private sector organisations across Africa, Asia, Europe and the Middle East.

Areas of expertise:

- Cost benefit analysis
- Decision support analysis
- Economic appraisal
- Environmental and water economics
- Environmental valuation
- GHG impacts valuation
- Investment impact evaluation
- Market and supply chain analysis
- Project management
- Risk management

EMPLOYMENT

November 2016 – Present: Independent environmental economist (self-employed)

July 2014 – April 2016: Associate; Advisian, WorleyParsons Group; London, UK

Economist providing consulting services to energy and resources clients. These services were characterised by a strong technical component and aimed at delivering strategic advice on sustainability, non-technical risk and holistic decision-making by incorporating environmental and social considerations alongside financial indicators to decisions affecting natural resources.

January 2013 – June 2014: Risk and EcoNomics™ Manager; WorleyParsons; London, UK

Split role between two functions. Responsible for the administration of the WorleyParsons' corporate and project risk management programme across the UK. This function involved managing the risk management profile for the company's UK operations, facilitating risk workshops, delivering risk workshop facilitator training, as well as regular interface with the corporate board management, project and programme managers, and clients. The EcoNomics™ function involved promoting sustainable project delivery, both internally and externally, and carrying out economic analyses in the context of environmental and social resources, cost-benefit analysis and investment appraisal.

January 2006 – December 2012: Senior Environmental Economist; Jacobs UK; Reading / London, UK

Graduate to Senior Environmental Economist in the Economics and Policy group of Jacobs UK. Main areas of experience include environmental valuation, especially in relation to water and greenhouse gas emissions, application of economic instruments to water resource planning activities, economic appraisal of flood risk management options, carbon assessments and socioeconomic impact assessments of infrastructure projects. Key UK clients included the Department for Environment, Food and Rural Affairs (Defra), the Environment Agency and various water utilities.

SELECTED PROJECT EXPERIENCE

Investment impact evaluation

- *Assessment of the Impact of IFC Investments in the Development of Oil and Gas Sector of Ghana, IFC, 2018.* Effects from an increase in the supply of gas to the electricity sector in Ghana and value chain analysis for the oil and gas sector to understand the impact on local suppliers, jobs and GDP. In collaboration with Ramboll (Denmark), VIS Economic & Energy Consultants (Greece) and E3 Modelling (Greece).

- *Economic evaluation of chemical sector investment, IFC, Nigeria, 2016.* Economist and project manager; study of direct and indirect economic impacts from IFC's client operations – a poly-olefins producer based in Nigeria – on the local economy, downstream development of associated industries and skills development.

Economic appraisal and decision support analysis

- *Support the selection process of Project of Common Interest (PCI) candidates in the thematic area of cross-border carbon dioxide infrastructure networks, European Commission, 2017.* Development of a specific cost-benefit analysis methodology and application template, to be applied by project promoters in their application for PCI status for CO_2 transport infrastructure projects. In collaboration with Ramboll (Denmark) and Ecorys (The Netherlands).
- *Feasibility study for two industrial and logistics parks, PDO, Oman, 2016.* Providing the economic context in the initial stages of a feasibility study, which aimed at developing a broad concept framework and identifying options for two new industrial and logistics parks in Oman.
- *Economic evaluation and feasibility study of government investment in six fishing harbours, Ministry of Agriculture and Fisheries, Oman, 2016.* Lead economist for the economic appraisal of anticipated benefits of harbour development, which involved creating a bespoke appraisal framework. The study aimed at informing decisions relating to prioritising investment.
- *Market study for the use of Liquefied Petroleum Gas (LPG) in Uganda, CNOOC, 2014.* Lead economist analysing key aspects of the current and potential future market conditions for LPG in Uganda, including characteristics of the supply chain and potential for export.
- *Macroeconomic impact of gas monetisation options in Mozambique, 2014.* Member of a team of engineers and economists conducting a macroeconomic impact study to identify, quantify and communicate the macroeconomic impacts of a gas-to-liquid industry in northern Mozambique to key stakeholders.
- *Review: assessment of energy sector vulnerability to the impacts of climate change in Central Asia, World Bank, 2013.* Critical review of existing country-level studies assessing climate vulnerabilities, risks and adaptation for the power sector in Central Asia. The purpose of the 2013 review was to describe and compare methods and approaches used in country-level studies in order to inform the development of a methodology for a regional study.
- *Development of an investment programme for a carbon capture and storage facility, Spain, 2013.* Lead economist responsible for the development of a theoretical framework for the analysis of options for the development of an investment plan for the facility.
- *Assessment of socioeconomic impacts of medium to large size infrastructure projects, 2006-2012.* These assessments typically involve the consideration of positive and negative impacts on local communities (recreation, amenity, disturbance, etc.), impacts on tourism as well as local and regional impacts on employment and the economy. Examples: changes to the Dunkettle Interchange in Dublin, Ireland (2012); the development of Port Rosyth in Scotland (2010); a proposed tourist development in Brighton, UK (2009).

Environmental economics and valuation

- *Comparative review of willingness to pay (WTP) results for 12 water companies in the context of Periodic Review 2019 (PR19), UK, 2018.* In collaboration with PJM Economics (UK).
- *Update to the environmental and social costing asset model, Affinity Water, UK, 2017.* Update of Affinity Water's environmental and social asset model for infrastructure and non-infrastructure items, to reflect changes in relevant guidance and best practice since the last planning cycle. Particular focus on ecosystem services and development of a methodology for their consideration. In collaboration with Jacobs (UK).
- *No aquifer abstraction study: Total Economic Value of the Umm er Radhuma aquifer, PDO, Oman, 2014.* Lead economist for the development of a theoretical framework and the valuation of aquifer water required for the operation of an enhanced oil recovery project. The study won the chairman's award for excellence and was used to strengthen the argument promoting produced water reuse policy for the company's operations.
- *Environmental valuation handbook for the water industry, Southern Water, UK, 2012.* Development of a peer-reviewed benefits transfer methodology manual to assist with the valuation of non-market impacts arising from water supply and demand management options comprising the optimum solution to managing the water utility's resource constraints.
- Contribution to environmental valuation research projects for Defra: *The Value of Inland Waterways in England and Wales* (Aug 2011), which developed a framework for capturing a range of social, economic and environmental benefits; and *Valuing England's Terrestrial Ecosystem Services* (Apr 2008), which developed a detailed typology of services and provided estimates of the value of England's terrestrial ecosystem services at both regional and national levels. Both are publicly available (see below).

- *Development of carbon calculators, 2006-2012. Development of a company-specific carbon calculator for South East Water, UK;* input into the update of the *UK Environment Agency's Carbon Calculator* and *Refurbishment Carbon Calculator;* application of greenhouse gas emissions quantification and valuation methodologies for various organisations (2006-2012).
- *Water Resource Scheme Screening Frameworks / Environmental & Social Impact Identification and Costing, various water utilities, UK, 2008.* Application of screening tools using technical, environmental and social criteria to filter the 'long list' of schemes considered in the Water Resource Management Plans of various water utilities. Development of an environmental and social costing framework for the assessment of positive and negative environmental and social impacts of screened schemes, including water quantity and quality, recreation, biodiversity, visual amenity, social/ public disamenity and climate change.
- *Secondment to the Strategic Planning Department of Veolia Water (now Affinity), 2009,* to assist with the delivery of the Water Resources Management Plan of the company. Duties included: analysis of compulsory metering scenarios and input to cost benefit analysis of metering, estimation of environmental and social costs for a range of infrastructure and water efficiency schemes, application of multi-criteria analysis frameworks, use of specialised software to select a least cost combination of water supply and demand management schemes to meet demand in the area served by the company, technical report writing.
- *Economic valuation of environmental effects of seven wetland restoration options, UK Environment Agency, 2007.* Estimation of the economic value of the environmental effects of specific restoration options, utilising the framework prescribed in the "Flood and Coastal Erosion Risk Management: Economic Valuation of Environmental Effects" Handbook.
- *Assessing the economic benefits of a wetland restoration, UK Environment Agency, 2007.* Input to an option appraisal for the economic benefits of a wetland restoration (Wilden Marsh, a wetland SSSI which has been degraded following river works in the 1970s).

EDUCATION

MSc in Environmental Economics (University of York, UK, 2005)

Dissertation title: Assessment of the economic value of forest recreation in North Yorkshire: A benefit transfer study using geographical information systems (GIS).

BSc in Financial Management and Banking (University of Piraeus, Greece, 2003)

IT LITERACY

- Advanced user of the MS Office tool suite (Word, Excel, PowerPoint, Access, Outlook)

LANGUAGES

- Greek (native speaker)
- English (fluent)
- French (good – DALF, Institut Français d'Athènes)
- Spanish (conversational – Intermedio, Instituto Cervantes, London)

PUBLICLY AVAILABLE WORK

- Demystifying Economic Valuation (June 2016). Collaborator in this paper which covers the main issues, questions and principles surrounding economic valuation, bringing together input from 120 volunteers from the UK economic valuation community. Available by the Valuing Nature Programme.
- The Value of Inland Waterways in England and Wales (August 2011). Contribution to Defra Science and Research Report. Available online by the Inland Waterways Association.
- Valuing England's Terrestrial Ecosystem Services (April 2008). Contribution to Defra Science and Research Report. Available online by Defra.