

# DR MARY STEWART

GENERAL MANAGER: CONSULTING



With over fifteen years experience in decision making for sustainable development and as General Manager with oversight of delivery, Mary assists some of the largest energy users in Australia to make improvements on significant energy and carbon footprints. Since joining Energetics in 2005, she has worked as Principal Consultant to the mining industry, and Principal Consultant Sustainability. Her experience on site and at corporate level has been invaluable to mining and industrial clients who routinely seek her opinion on developing and implementing large scale programs ranging from energy efficiency and carbon mitigation to reporting and audit. Mary is a recognised international expert on Life Cycle Assessment as it applies to resources and is an expert in developing carbon footprints and carbon neutral positions. She is on the peer review panels for *The Journal of Industrial Ecology* and the *International Journal of Life Cycle Assessment*; and has completed peer reviews of large, international LCIs. She is a member of mining working group of the Australian Alliance to Save Energy, the NSW Women In Mining Network (WIMNet) Committee, the Centre for Energy Efficient Communitation (CEEC) board. She is on the Community Advisory Board for FlexCareers, a company focussed on helping women return to work in flexible positions.

## SUMMARY OF EXPERIENCE

### April 2010 - present

#### **Energetics Pty Ltd | Group General Manager and General Manager Consulting**

Mary manages the business unit which focuses on delivering excellence to some of our largest clients.

### October 2007 – September 2009

#### **Energetics Pty Ltd | Principal Consultant: Strategy and Sustainability**

Mary worked with our larger clients to develop strategies which deliver innovative solutions to climate change and sustainability. She specialises in energy and greenhouse reporting and carbon footprint assessments. She also focussed on the sustainability aspects of our services including delivering sustainability strategies for companies, as well as integrating operational improvements delivered by other practice areas.

### January 2007 – September 2007

#### **Energetics Pty Ltd | Principal Consultant: Mining**

Mary worked with our mining industry clients to ensure that Energetics delivered value across all areas of our business with a focus on ensuring that work delivered integrated and optimal results.

### July 2005 – Dec 2006

#### **Energetics Pty Ltd | Senior Energy Consultant**

This role focused on Energetics' industrial clients, playing a liaison role where necessary. She was more directly involved in projects with a minerals focus, and specific projects that require skills relating to the implementation of sustainability concepts in a pragmatic manner.

### July 1998 – December 2004

#### **Department of Chemical Engineering, University of Sydney, NSW | Research Fellow**

As a senior researcher in the Department, Mary managed research projects in addition to lecturing and supervising post-graduate students. Mary's research focused on multi-criteria decision making for sustainable development in the minerals industry. She has worked with all decision contexts from project concept and selection and design, through to the optimisation of operational sites. She has consulted to industry, academia and government in Australia and globally.

## MAJOR PROJECTS:

### June 2007 – Ongoing

#### **Carbon footprint assessments**

Developed the process whereby Energetics delivers carbon footprints, based on an ISO 14 040 requirements and a precautionary approach to these assessments. Delivered carbon footprints, carbon calculators, energy and greenhouse inventories and baselines and carbon neutral analyses.

### October 2005 – Ongoing

#### **Xstrata Coal NSW Energy Savings Action Plan Process**

This process was designed to deliver against the requirements of both the EEO and DEUS ESAP processes in an integrated fashion. The focus is on leveraging site expertise, support site ownership and implementation from the outset.

## EDUCATION

- BSc (Chemical Engineering) | University of the Witwatersand, South Africa
- PhD | University of Cape Town, South Africa
- MAusIMM, MSAIMM