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CURRICULUM VITAE

Francis Barram
Chief Executive Officer

PROFILE

Francis is a leading Australian sustainability advisor and published author of "How to Profit from Climate Change". Working with the world's largest energy users to deliver our flagship Energy Leadership Program (ELP) is part of my contribution to global energy transformation and my key initiative to halt carbon induced climate change. The ELP delivers energy transformation in mines, processing plants and energy intensive industries that can deliver 15% reduction in annual energy expenditures for zero capital investment. The ELP is a structured management of change programme that delivers site-wide significant cost savings without the need for capital expenditure.

Academic Qualifications

- Masters Energy Management
- Bachelor of Economics
- Diploma of Electrical Engineering
- Communications Cert IV
- Training & Assessment Cert IV
- Registered CEM and CMVP

Professional Memberships

- Professional Member Economics Society Australia
- American Energy
 Engineers Centre for
 Sustainable Design
 Queensland Energy
 Efficiency Industry Leaders
 Group Standards Australia
- Committee Member Energy Auditing EN01

Awards

- Australian Energy Efficiency Award
- National Energy Award
- National Sustainable Energy Award
- National Environmental Award
- National Energy Management Award
- Innovative Service of the Year

Professional History

2012 - Present: Director Innovation and Strategy, Ensight

2003 - 2012: Principal Consultant, Integrated Energy Services

1996 - 2002: Principal Energy Consultant, Green Electric

1992 - 1996: Co-ordinator, Alternative Energy Advisor Group, Department of Mines and Energy 1991 -

1992: BEcon/LLB, University of Queensland

1990: Senior Policy Advisor, Department of Environment

1989: Demand Side Management Research Officer, ENERGEX

Professional Experience

Leading Sustainability Energy Designer

- Developed economic model to evaluate the least cost development plan for the Queensland electricity grid including evaluation of a 900MW natural gas fired gas turbine project compared to the 600MW Tully-Millstream hydroelectric scheme.
- Developed economic model to evaluate the least cost development plan for the New South Wales
 electricity grid South Sydney feeder including evaluation of a 300MW MWS fired boiler driving
 steam turbine generators.
- Developed an economic model to evaluate the nodal cost for the Queensland electricity grid including evaluation of a 500MW natural gas fired gas turbines connecting to Townsville and Cairns.
- Developed energy strategy for \$200M Orion Town Centre, Springfield for Mirvac, awarded 6 star Green Star world best practice sustainable design rating.
- Designer of BHP Alyangula Town Energy Strategy and the proposed new 800 person work camp that saved 70% of energy use.
- Designed the 800kW gas power station for the world leading sustainable ecotourism resort, the award winning \$100M unit Couran Cove Island Resort.

Energy Economist

- Developed energy and economic model to optimise the use, reuse and treatment of energy for the Kelvin Grove Urban Village and the Orion Springfield Town Centre development.
- Developed an economic model to compare the life cycle cost of alternative energy systems and energy systems and energy management, which forms the basis of his Master's Thesis.
- Evaluated the cost of Community Service Obligations (CSOs) to each of the regions that constitute Queensland in the Queensland Energy Scoping Study.
- Developed economic model and method for comparing grid extensions to Energex's network and energy efficiency initiatives including solar water heating.