

Position: Energy Manager

Name of Firm: InEnergy Africa CC

Name of Staff: Edward Volek

Profession: Process Engineer

Date of Birth: 24 July 1970

Years with Firm/Entity: 3 years

Nationality: South African

Membership in Professional Societies:

CLASS	PROFESSIONAL SOCIETY	YEAR OF REGISTRATION
Pr Eng	Engineering Council of South Africa	2002
Member	South African Institute of Chemical Engineers	2002
Member	Association of Energy Engineers	2007

Detailed Tasks Assigned:

YEAR	CLIENT	COMMODITY	PROJECT DESCRIPTION
2006	Holcim Dudfield	Cement	Dudfield kiln 3 detailed energy balance.
2006	Holcim Dudfield	Cement	Alternative fuels study on Dudfield kiln 3.
2006	Holcim	Cement	Cement manufacturing process analysis for carbon emission reduction potentials.
2006	Holcim	Cement	McKinsey kiln expansion strategy development.
2007	AfriSam	Cement	Development of Energy Efficiency Programme.
2007	eCube South Africa	Fresh Produce	M&V of eCube Energy Conservation Measure at the Johannesburg Fresh Produce Market
2008	Association of Cementitious Materials Producers (ACMP)	Cement	Electricity efficiency position paper of the South African cement industry.
2008	Goldfields Driefontein	Gold	Carbon emission determination as per Greenhouse Gas Protocol.
2008	Cement & Concrete Institute	Concrete	Carbon footprint of concrete in South Africa.
2009	AfriSam	Cement	Developed a first in the world per product CO ₂ reporting system for bags of cement.
2009	AfriSam	Aggregates, Readymix	Carbon footprinting study.
2009	PPC	Cement, Lime, Aggregates	Minor Emissions Quantification for whole company.
2009	PPC, Laezonia	Aggregates	Energy Efficiency Certificate of Compliance report
2010	PPC, Group	Cement, Lime, Aggregates	M&V of computer server installation.
2010	PPC, Dwaalboom	Cement, Lime, Aggregates	Installation of MillScan energy conservation measure on cement finishing mill
2010	Richards Bay Minerals	Minerals & Metals	Awareness training on tax incentive schemes

Key Qualifications:

Mr Volek joined InEnergy in September 2007. He brings with him a combined 14 years experience in cement, aggregates and readymix concrete manufacture. He has five years experience in energy management. He is a CEM and a CMVP.

Education:

DEGREE/DIPLOMA	FIELD	INSTITUTION	YEAR
B.Sc (Eng)	Chemical Engineering	University of the Witwatersrand	1992
MBA	Masters in Business Administration	University of the Witwatersrand	2006

Employment Record:

POSITION	COMPANY	JOB DESCRIPTION	DURATION
General Manager	InEnergy Africa CC	<ul style="list-style-type: none">• Performed Measurement and Verification as per the IPMVP for a number of clients for post CAPEX auditing purposes.• Represented the Association of Cementitious Materials Producers in the development of an Electricity Efficiency Position Paper and in dealings with the government ministry of minerals and energy.• Developed carbon emission programme for Goldfields Driefontein.• Working with industry associations to determine the CO₂ footprint of concrete.• CDM services provided to cement and other cementitious material producers.• Specialist in the Eskom Demand Side Management mechanism especially to the cement and related industries.• Energy management consultant focussing on measurement and verification of energy consumption.	09/07 - current
Energy Manager	AfriSam (Pty) Ltd (Formerly Holcim)	<ul style="list-style-type: none">• Member of the Energy Efficiency Technical Committee at the NBI (National Business Initiative) and developed an energy efficiency strategy for AfriSam.• Initiated an Energy Efficiency Programme to build awareness and to put the building blocks in place to enable more savings in the future.• Energy Efficiency representative of the ACMP (Association of Cementitious Material Producers).• Drove DSM (Demand Side Management) and DMP (Demand Market Participation) measures to obtain funding from Eskom.• Defined a measurement and verification programme for energy use.• Published a case study on energy efficiency via the NBI.• Presented talks on energy efficiency at conventions.• Drove CDM projects to generate certified emission reductions.• Managed a project to provide >200 000t of alternative sources of fuel for cement kiln firing.	10/06-08/07
Technical Consultant	Holcim-Alpha South Africa (Pty) Ltd	<ul style="list-style-type: none">• Performed investigations into cement plant operating problems and proposed solutions leading to improved output, quality and cost of production.• Conducted in-depth studies on different raw materials and new products to evaluate cement quality and performance.• Monitored the operating and engineering systems and procedures at the Group's factories to maintain databases used to highlight trends.• Assisted in plant engineering system audits.• Performed cement plant audits, kiln energy balances, and cement mill audits.	01/94-12/95