



1world
consultants

COMPANY PROFILE

Environmental and Engineering
Professionals

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INTRODUCTION

1World Consultants (PTY) Ltd. is a Professional Environmental and Electrical Engineering services to a variety of clients in both the public and private sectors.

At 1World, we have extensive experience in the environmental and energy sectors mostly developed through practical involvement in projects for utilities and private consultants. Both our environmental and engineering divisions offer personalised attention on every project. The environmental consultants on our team have successfully executed work for large municipalities, namely eThekweni, Msunduzi and Kwadukuza Municipalities. Our consultants in the recently formed engineering division have added knowledge and skills, ranging across the fields of electrical engineering, engineering project management and computer modelling, to the team at 1World. The unique combination of engineering and environmental knowledge and experience enables 1World to provide holistic solutions to projects.

VISION

1World Consultants (PTY) Ltd. pride themselves on individual attention to every project. We aim to be a leading provider of consultancy services for projects in South Africa and beyond.

MISSION

We aim to deliver a quality and efficient service by:

- Using highly skilled and motivated professionals
- Consulting with all stakeholders
- Training and developing our staff
- Working with local communities
- Being honest and humble in dealings with stakeholders, providing best value in all aspects of our services

FIELDS OF EXPERTISE

1World Consultants (PTY) Ltd. provide a wide range of services with specialist expertise in the following key core areas and tasks:

ENVIRONMENTAL SERVICES

- Basic Assessments
- Full scoping and Environmental Impact Assessments (EIA's) and reporting
- Administration and management of EIA processes
- Facilitation of public participation including advertising and large format printing
- Section 24G Rectification Applications
- Water Use License Applications (NWA)
- Waste Management License Applications (NEM:WA)
- Environmental Auditing and Site Compliance
- Supply of Environmental Control Officer (ECO)
- Environmental Management Plans, recommendations and advice
- Environmental Planning/Risk Assessments/Screenings/ Due Diligence

ELECTRICAL ENGINEERING EXPERTISE AND SERVICES

• **Power System modelling and simulation**

1World has expertise in the following simulation software; PSS/e, DigSILENT, Reticmaster and PowMaster providing the following broad services:

- Master planning;
- Network development planning (NDP);
- Long term load forecasting.
- System analysis and optimisation

• **Reticulation & Electrification design**

- Rural and urban electrification design;
- Building reticulation and refurbishment

• **Substation & Line design**

- High and medium voltage substation design;
- High and medium voltage line design;
 - High and medium voltage cable design;

• **Project management**

1World offers project management and on-site

supervision capabilities for any type of electrical project, especially where we are responsible for detail design of such projects. This allows our engineers to ensure that required standards and quality is maintained during the construction/implementation phases of the project, given the budget and schedule constraints.

- **Building Services**

- Electrical reticulation & distribution,
- Lighting, Security, Access Control,
- Standby Power generation
- Energy Efficiency Analysis
- BIM Systems.

- **Demand Side Management / Energy Audits**

DSM is the process by which electric utilities achieve predictable changes in customer demand, which can be considered as alternatives to the provision of additional generation plant. The following services are offered:

- Commercial
 - Energy efficiency and load management in buildings;
 - In line water heaters;
 - Thermal energy storage;
 - Tariff analysis;
 - Power factor correction
- Industrial
 - Industrial and Power Station energy efficiency;
 - In line water heaters;
 - Industrial Load Control;
 - Tariff analysis;
 - Power factor correction

PROFESSIONAL REGISTRATION

The team members at 1World Consultants (PTY) Ltd. are affiliated to, amongst other industry specific organisations, the following recognised institutions:

- South African Council for Natural Scientific Professions (SACNASP)
- International Association for Impact Assessment South Africa (IAIASa)
- Engineering Council of South Africa (ECSA)
- South African Institute of Electrical Engineers (SAIEE)

BLACK ECONOMIC EMPOWERMENT

B-BBEE Level: 01

COMPANY DETAILS

Legal Name:

1World Consultants (PTY) Ltd.

VAT Registration No.: 445 0271 756