



AGISA Company Profile

Consulting engineering and project management



URBAN | MUNICIPAL WATER | BULK WATER | BIO RESOURCES | ENERGY | ADDITIONAL SERVICES

Building relationships through infrastructure

Profile overview

AGISA provides multidisciplinary engineering services across six core service areas, from planning and feasibility through design, procurement, construction monitoring and close-out.

41	6	4	R20m
Projects in 2026 register	Core service areas	Operational provinces	Professional indemnity cover

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Who we are

A South African consulting engineering firm delivering practical, economical and implementation-ready solutions.

Engineering that moves from concept to delivery

AGISA is a Level 2 B-BBEE engineering design and consulting firm working across urban infrastructure; municipal water planning and compliance; bulk water and sanitation; bio resources and agricultural engineering; renewable energy; and additional technical services.

The Setswana word *agisa* means “to help someone build”. It reflects our belief that peace, like infrastructure, is built with others over time. Both require care, cooperation and a lasting commitment. AGISA brings this spirit to its work with clients, communities and project partners, delivering practical solutions that give clients peace of mind.

Our registered professionals combine more than 100 years of cumulative consulting engineering experience. The team is known for practical design, value-conscious solutions and active project management from inception to commissioning.

At a glance

Head office

Kimberley

Branch offices

Vryburg, Kathu and Bloemfontein

Footprint

Northern Cape, North West and Free State

Ownership

70% black owned

Recognition

Level 2 B-BBEE with 125% recognition



Leadership

AGISA is led by registered engineering professionals with complementary experience across the company's six core service areas.



Ambrose Khumalo

Chief Executive Officer

Pr Tech Eng ECSA 201570276

Ambrose is a registered Professional Engineering Technologist with 14 years of experience in municipal infrastructure development.

As Chief Executive Officer of AGISA, he provides strategic leadership and oversees the company's day-to-day operations, ensuring that projects are effectively planned, resourced and managed. His experience includes project coordination, stakeholder engagement, client relationship management, business administration and the supervision of multidisciplinary technical teams.

Ambrose plays an active role in monitoring project programmes, budgets, quality requirements and contractual obligations to ensure that assignments are completed in accordance with client expectations and professional standards. He is recognised for his dependable leadership, integrity and clear communication, as well as his ability to build strong working relationships with clients, municipal officials, contractors and other project stakeholders.

His combination of technical understanding and business-management capability supports AGISA's commitment to practical engineering solutions, responsive service and successful project delivery.



Elmar Deyssel

Chief Operations Manager

Pr Eng ECSA 20100328

Elmar is a registered Professional Engineer with more than 20 years of practical, design and management experience in civil and bio-resource engineering.

As Operations Manager of AGISA, he provides technical leadership and oversees the planning, design and implementation of multidisciplinary engineering projects. His experience includes water-source development and abstraction works, bulk pipelines, pump stations, reservoirs, water-reticulation systems, agricultural infrastructure and irrigation projects.

He also has extensive experience in Water Conservation and Water Demand Management programmes, including bulk metering, water-loss assessments, IWA water balances, monitoring systems and the preparation of municipal water-sector plans and compliance reports.

Elmar has managed projects through the full engineering lifecycle, from feasibility studies and preliminary design to procurement, construction monitoring, commissioning and close-out. His practical approach, technical knowledge and project-management capability enable him to develop economical, implementable solutions while maintaining effective communication with clients, municipal officials, contractors and other stakeholders.

The leadership team is supported by qualified professional and technical personnel registered with the Engineering Council of South Africa and other recognised professional bodies.

Purpose values and quality

Our operating principles connect technical quality with responsible delivery and long-term client value.

Mission

To provide innovative, high-quality consulting engineering and project management services that achieve client satisfaction, lasting benefit, community upliftment, equity and skills transfer.

Vision

- Provide engineering solutions that meet client needs
- Improve quality of life through infrastructure
- Be a leading consulting engineering practice
- Be a preferred engineering and project management partner

Core values

Professional service

We respect each client's expectation of responsive, competent and dependable service.

Integrity

We act honestly, protect confidential information and avoid conflicts of interest.

Fairness

We work transparently and in a non-discriminatory manner.

Quality

We improve our systems, technical work and client experience continuously.

Quality commitment

AGISA is committed to providing services and deliverables that meet client, statutory and regulatory requirements. Our quality management system supports consistent project controls, document management, technical review and continuous improvement, with alignment to ISO 9001:2015 principles.

Professional Memberships and Affiliations

AGISA is a corporate member of Consulting Engineers South Africa (CESA), a voluntary association that promotes consulting engineering excellence and represents the interests of consulting engineering firms; the Association for Renewable Energy Practitioners (AREP), a non-profit industry organisation that promotes the responsible adoption of renewable energy through professional development, quality assurance and reduced stakeholder risk; and the International Water Association (IWA), a global network that connects water professionals, researchers and organisations to advance sustainable and innovative water-management solutions.

AGISA's professional employees are also registered with and/or members of recognised professional institutions, including the Engineering Council of South Africa (ECSA), the statutory body responsible for regulating the engineering profession; the South African Institute of Agricultural Engineers (SAIAE); the South African Irrigation Institute (SABI); the South African Institution of Civil Engineering (SAICE); and the Institute of Municipal Engineering of Southern Africa (IMESA). These affiliations support professional accountability, ethical practice, continuing professional development, technical knowledge sharing and the consistent delivery of high-quality engineering services.

			
			

Delivery capability

AGISA supports the full project lifecycle across all six core services with disciplined controls, appropriate technical resources and accountable professional leadership.

A Clear Route from Idea to Operation

 01 Inception Define the brief and assess needs. Feasibility studies where required.	 02 Concept and Viability Preliminary design, options, programme and viability.	 03 Design Development Detailed design, drawings, specifications and costs.	 04 Documentation and Procurement Prepare tender documents and assist with procurement.	 05 Contract Administration and Inspection Manage the contract and inspect works. Monitoring as agreed.	 06 Close-Out Verify completion and hand over records and manuals.
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Engineering services

Six integrated core services allow AGISA to support infrastructure programmes from planning and compliance through implementation and operational improvement.



Bulk Water and Sanitation Infrastructure

- Water resource planning and master planning of bulk supply systems.
- Development of water sources and abstraction infrastructure (groundwater/boreholes & surface intakes).
- Bulk supply pipelines, pump stations, reservoirs, and elevated towers.
- Regional and local water supply schemes.
- Master planning of sewerage disposal systems.
- Sewer conveyance (outfall and interceptor sewers).
- Sewer pump stations and rising mains.



Municipal Water Planning and Compliance

- Water Services Development Plans (WSDPs) and sector input reports.
- Development of Water Safety Plans (WaSP's) aligned with SANS 241.
- Wastewater Risk Abatement Plans (W2RAP's) for WWTWs and sewer networks.
- Water demand and water loss management strategies.
- Blue Drop, Green Drop, and No-Drop regulatory compliance support
- Water services audits and implementation planning.
- Five-year water and sanitation service delivery implementation plans.
- Data management and reporting through the DWS IRIS system



Urban Infrastructure

- Water and sewer reticulation
- Roads, stormwater and drainage
- Human settlement engineering services
- Electrical infrastructure
- Mechanical engineering
- Structural engineering



Bio Resources and Agricultural Engineering

- Farm infrastructure development (irrigation systems, energy supply, and farm buildings) design and implementation.
- Farm business plans and technical support.
- Renewable energy for agricultural operations (solar pumping, wind, micro-hydro, and biofuels).
- GN704 Water Regulations compliance certification, audits, and design.



Renewable Energy

- Owner's Engineering & Independent Advisory
- Commercial & Industrial (C&I) Solar PV Design
- VSD Solar Water Pumping
- Utility & C&I Battery Energy Storage Systems (BESS)
- Compliance & Auditing
- Geodetic & Solar Infrastructure Surveying
- Broader Renewable Energy Solutions



Technical Support Services

- Underground leak detection
- Portable flow pressure and level logging
- Meter verification
- Topographical and drone surveys
- Water management platforms
- Integrated water loss investigations

Bulk Water and Sanitation Infrastructure

We plan, design and deliver bulk water and wastewater infrastructure, from source development to treatment, storage and conveyance.

Bulk water services

Water resource master planning, abstraction works, bulk pipelines, pump stations, reservoirs, elevated towers and mine dewatering.



Bulk pipeline installation | Elevated storage | Pump station infrastructure | Valves and interconnections

Selected bulk water experience

Project and client	Scope period status and value
Schweizer-Reneke Reservoir Refurbishment Dr Ruth Segomotsi Mompoti District Municipality Schweizer-Reneke	Structural investigations and refurbishment of 5 ML, 4 ML and 10 ML reservoirs, including valves, metering, interlinking, disinfection and commissioning. Sep 2023-May 2024 Completed · R39.792m
Olifantshoek Bulk Water Supply Challenge Gamagara Local Municipality Olifantshoek	Civil, structural, mechanical and electrical engineering assessment of the bulk water supply challenge. Mar-May 2024 Completed · Fee R128,225
Sesheng Bulk Water Supply Gamagara Local Municipality Kathu	10 km bulk pipeline, 7 ML reservoir, 286 l/s booster pump, 0.6 ML elevated reservoir and equipping of two boreholes. Feb 2025-ongoing Ongoing · Project R227.164m
Pering Mine Dewatering and Water Use Licence Designs Pering Mine (Pty) Ltd Reivilo, North West	Dewatering strategy, detailed design and implementation of the preferred discharge option, with civil designs for the Water Use Licence. Jan 2023-ongoing Ongoing · Fee R505,316

Sanitation and Infrastructure Rehabilitation

We assess and upgrade wastewater treatment works, sewer pump stations, oxidation ponds, sewer conveyance and rising mains, with civil, structural, mechanical and electrical engineering input.



Treatment infrastructure | Reservoir civil works | Rehabilitation in progress | Refurbished internal surfaces

Selected sanitation experience

Project and client	Scope period status and value
Refurbishment of Old 3.5 ML Kathu WWTW Gamagara Local Municipality Kathu	Feasibility assessment and multidisciplinary refurbishment of the existing 3.5 ML wastewater treatment works. Sep 2023-Apr 2024 Completed · Project R4.739m; fee R1.011m
Victoria West Sewer Pump Stations and Oxidation Ponds Phase 1 Ubuntu Local Municipality Victoria West	Multidisciplinary upgrading of sewer pump stations and oxidation ponds. Oct 2023-Dec 2024 Completed · R15.011m
Emergency Upgrade of Richmond Sewer Pump Station Ubuntu Local Municipality Richmond	Emergency civil, mechanical and electrical upgrading of the municipal sewer pump station. Mar-Jul 2025 Completed · R1.871m

Delivery capability

Feasibility assessments, multidisciplinary design, procurement support, construction monitoring, refurbishment, disinfection and commissioning.

Municipal Water Planning and Compliance

We provide planning, audit and regulatory support to help water services authorities improve compliance, data quality and operational performance.

Service scope

Water Services Development Plans (WSDPs), Water Safety Plans, Wastewater Risk Abatement Plans (W2RAPs), water services audits, Blue, Green and No Drop support, IRIS reporting and implementation planning.



Flow measurement | Monitoring installations | Bulk water metering

Selected project experience

Project and client	Scope period status and value
Water Services Development Plan 2021-2026 Dr Ruth Segomotsi Mompoti District Municipality District-wide, North West	Development of the district Water Services Development Plan for 2021-2026. Mar-Jun 2023 Completed · Fee R5.365m
Annual WSDP Performance and Water Services Audit Gamagara Local Municipality Gamagara	Annual Water Services Development Plan performance review and Water Services Audit Report. May-Dec 2025 Completed · Fee R342,183
WSDP IDP Water Sector Input Report Gamagara Local Municipality Gamagara	Update of the water-sector input report for incorporation into the municipal IDP. May-Dec 2025 Completed · Fee R171,954
Wastewater Process Audits and W2RAP Review Sol Plaatje Local Municipality Kimberley	Wastewater process audits, inspections of sewer networks and pump stations, and review of the Wastewater Risk Abatement Plan. Oct-Dec 2025 Completed · Fee R289,501
Kimberley and Ritchie Water Systems Inspection and WSP Review Sol Plaatje Local Municipality Kimberley and Ritchie	Inspection of water reticulation and bulk systems and review of the Riverton and Ritchie Water Safety Plans. Mar-Jun 2026 Completed · Fee R215,800

Urban Infrastructure

We provide integrated civil, electrical, mechanical and structural engineering for dependable municipal systems and well-planned developments.

Service scope

Water and sewer reticulation, roads and stormwater, human settlements, municipal buildings, electrical infrastructure, mechanical systems and structural engineering.



Roads and intersections | Electrical infrastructure | Community lighting

Selected project experience

Project and client	Scope period status and value
Casablanca and Uitas Park Extension 3 Internal Streets KD Civils (Pty) Ltd Klerksdorp and Vereeniging	Planning, design and project management for the upgrading of internal streets. Casablanca: completed Jul 2021 · R10.500m Uitas Park: completed Dec 2022 · R21.598m
N12 GWK Intersection Traffic Circle Two Okes Investments (Pty) Ltd Kimberley	Design, tender documentation, procurement support, construction monitoring and close-out for the N12 Section 9 traffic circle. Jun 2022-ongoing Ongoing · Approx. R8.833m
Mapoteng Roads and Stormwater and 1.5 km Main Road Gamagara Local Municipality Mapoteng	Civil engineering services for the upgrading of municipal roads, stormwater infrastructure and the 1.5 km main road. Roads and stormwater: Dec 2023-Jun 2024 Completed · Project R8.212m Main road: Sep 2024-ongoing Ongoing · R29.300m
Municipal Halls Offices Library and Workshops Upgrades Gamagara Local Municipality Kathu, Olifantshoek and Dibeng	Civil, structural, mechanical and electrical upgrades to halls, offices, the library and workshops for environmental health, cleansing, parks, recreation and graveyards. Sep 2025-ongoing · Both ongoing Halls, offices and library: R142.500m Workshops and offices: R158.142m
Millennium Park 500 GIC Somerset East	Project management, technical services and quality control for the Millennium Park 500 development. Mar-Nov 2025 Completed · R17.000m
Hopetown and Strydenburg High Mast Lighting Thembelihle Local Municipality Hopetown and Strydenburg	Electrical engineering services for new municipal high mast lighting. Nov 2025-ongoing · Both ongoing Hopetown: project R27.817m Strydenburg: project R8.089m

Bio Resources Engineering

We engineer productive agricultural developments, linking water, energy, farm infrastructure and practical business planning.

Service scope

Irrigation systems, centre pivots and drip irrigation, pump stations and pipelines, farm buildings, business plans and renewable-energy integration.



Centre pivots | Drip irrigation | River abstraction | Sprinkler irrigation

Selected project experience

Project and client	Scope period status and value
Probeerfontein Irrigation and Solar Project Henlie Energy (Pty) Ltd Douglas, Northern Cape	Integrated 850 kW solar PV and 425 ha centre-pivot irrigation development, including pump stations and bulk pipelines. Sep 2025-May 2026 Completed · Approx. R15.0m
Cornelius Boerdery and Bo Karoo Trust Solar Pumping Henlie Energy (Pty) Ltd Douglas, Northern Cape	Solar PV hybrid VSD systems for centre-pivot irrigation pumps and pivot drives: Cornelius 218 kW; Bo Karoo Trust 158.72 kW. Jun 2026-ongoing · Both ongoing Cornelius: project R3.597m Bo Karoo: project R2.619m
Witbank Boerdery Solar Pumping Project Witbank Boerdery Witbank, Northern Cape	Design, costing and pump specification for a 90 kW pump with a 184.5 kWp hybrid VSD solar system. Aug 2026-ongoing Ongoing · Project R2.781m
Vanzoelela Farms Irrigation and Bulk Water Supply Project Gemstone Resources (Pty) Ltd Kimberley, Northern Cape	Business plan and bulk water infrastructure design for a proposed mixed irrigation and livestock development, including approximately 500 ha of pecan nuts and lucerne, Vaal River abstraction works and a bulk water pipeline. Apr 2023-May 2024 Completed · Project R32.000m
Provincial Agricultural Infrastructure Development Programme Departments of Agriculture and Land Reform, Northern Cape and Free State Northern Cape	Planning, design, tender documentation and construction management for seven agricultural assignments. Completed · Project R21.520m
Land Reform Farm Assessment and Recapitalisation Programme Department of Rural Development and Land Reform Northern Cape	Needs assessments, feasibility studies and business plans for five farm-recapitalisation assignments. Completed · Project R3.250m
Homevale Effluent Irrigation and Lucerne Development Sol Plaatje Local Municipality Kimberley, Northern Cape	Business and infrastructure planning for an approximately 80 ha treated-effluent lucerne scheme. Completed · Project R1.258m

Renewable Energy

We provide independent engineering, design and delivery support for commercial, agricultural, municipal and utility-scale renewable-energy systems.

Service scope

Owner's engineering, commercial and industrial solar PV, VSD solar pumping, battery energy storage systems (BESS), compliance and auditing, geodetic surveys, feasibility studies, procurement support and project management.



Solar PV engineering and inspection

Commercial and agricultural installations

Project and client	Scope period status and value
Cornelius Boerdery Solar Project - Hybrid Backup System Henlie Energy (Pty) Ltd Douglas, Northern Cape	15 kW hybrid inverter, three 5 kWh storage units and a 9.92 kWp solar PV plant. Jun 2026-ongoing Ongoing · Project R10.500m
Broadwaters River Front Holiday Resort Henlie Energy (Pty) Ltd Douglas, Northern Cape	Design, optimisation and energy consulting for a 100 kWp PV and 245 kWh commercial BESS system. Jun 2026-ongoing Ongoing · Project R2.058m; fee R28,000
Spar Douglas Henlie Energy (Pty) Ltd Douglas, Northern Cape	Design, optimisation, costing and energy consulting for a 505 kWp PV and 553 kWh commercial BESS system. Jun 2026-ongoing Ongoing · Project R7.034m; fee R211,005
Johan Swiegers Henlie Energy (Pty) Ltd Douglas, Northern Cape	Integrated 764 kW solar PV hybrid VSD pumping system across eight agricultural sites. Jun 2026-ongoing Ongoing · Project R12.988m; fee R543,589
Plastic Droppers Factory Plastic Droppers (Pty) Ltd Pretoria, Gauteng	Engineering, procurement support, project management and sign-off for a 150 kWp PV and 345 kWh BESS installation. Sep 2026-ongoing Ongoing · Project R3.353m; fee R167,625

Mine Municipal and Agricultural Energy

Feasibility, design and project support for mine, municipal and agricultural energy developments.



Solar PV arrays at Koffiefontein Mine and Probeerfontein Farm

Selected project experience

Project and client	Scope period status and value
Koffiefontein Diamond Mine Blue Diamond Mine Koffiefontein, Free State	Feasibility, design and project support for mine power options up to 22 MW PV and 75 MWh BESS. Jun 2026-ongoing Ongoing · Project R526.220m; fee R12.873m
Wolmaransstad Solar Pumping Hybrid System Wolmaransstad Local Municipality Wolmaransstad, North West	Scoping and costing for conversion of existing pumps to hybrid solar operation. Aug 2026-ongoing Ongoing · Project R17.102m; fee R855,075
Merino Boer Dam & Solar Project Merino Boer/Nedbank Philippolis, Free State	267.84 kW solar PV and dam development with daytime pumping, storage and gravity-fed irrigation. Feb 2026-ongoing Ongoing · Project R4.419m; fee R200,640
Zimbabwe Grid-Scale Solar Projects (5) - Feasibility Phase Burnam Group Zimbabwe	Feasibility and development support for five municipal IPP and wheeling projects from 5 MW to 132 MW. Aug 2026-ongoing Ongoing · Project R1188.000m; fee R27.239m

Technical Support Services

Water monitoring capability

AGISA combines portable monitoring equipment, field investigations and structured data analysis to understand how water moves through a supply system. The resulting evidence supports meter verification, water-loss analysis, minimum night-flow investigations and targeted maintenance.

Data loggers

Portable data loggers record flow, pressure and reservoir level information at selected intervals. Temporary monitoring at strategic points establishes demand profiles, identifies pressure fluctuations and highlights unexplained changes in consumption. Logger data is used for minimum night-flow analysis, pump and reservoir performance assessments, and before-and-after comparisons of system interventions.

WaMSS water-management platform

WaMSS provides a central platform for consolidating meter readings, logger information and monitoring-point data. Subject to equipment and data compatibility, it supports dashboards, trends, system and zone water balances, comparison of system input volumes with authorized consumption, tracking of water-loss indicators and consistent technical reporting. This converts field measurements into practical management information.

Ultrasonic clamp-on flow meters

AGISA has portable ultrasonic clamp-on flow meters verified by a SANAS-accredited laboratory. The sensors are fitted externally and can measure flow without cutting into the pipeline or interrupting the water supply, subject to suitable pipe and operating conditions. They are used to verify installed meters, measure temporary flow, confirm bulk transfers, establish baselines and support water-loss and minimum night-flow investigations.

Underground leak-detection equipment

Portable acoustic leak-detection equipment detects and amplifies the sound and vibration produced by water escaping from a pressurised underground pipe. Surveys at valves, hydrants, service connections and other accessible points help narrow down probable leak locations, reduce unnecessary excavation and direct repair teams to priority areas. The surveys can be combined with night-flow logging, pressure monitoring and step testing.

Services enabled by these resources

• Bulk and consumer meter verification	• Flow, pressure and reservoir-level monitoring
• IWA water balances and water-loss analysis	• Minimum night-flow and DMA investigations
• Underground leak-detection surveys	• Pipeline and pump-performance assessments
• Dashboards, trend analysis and technical reporting	• Post-intervention performance verification

Integrated water-loss investigations

By combining verified flow measurements, logger trends, WAMSS analysis and acoustic leak detection, AGISA can identify high-loss areas, prioritize repairs and verify the improvement achieved. This integrated approach supports practical water-conservation and water-demand-management programmes and strengthens the client's ability to manage infrastructure using reliable operational data.

Survey and drone services

AGISA also undertakes topographical and drone surveys to support planning, design, progress monitoring, asset verification and construction records.

Representative experience

Water Conservation and Demand Management Strategy · Bulk Meter Installation and Centralised Water Management System

Project	Client and location	Period status and value	Scope
Water Conservation and Demand Management Strategy	Dr Ruth Segomotsi Mompoti District Municipality Five local municipalities	Oct 2023-Jul 2025 Completed · Fee R12.684m	District WC/WDM strategy, field investigations, pressure and flow logging, demand projections and intervention planning.
Bulk Meter Installation and Centralised Water Management System	Dr Ruth Segomotsi Mompoti District Municipality District-wide, North West	Jul 2025-Jun 2026 Completed · Fee R8.164m	Installation, verification and calibration of bulk electromagnetic meters and integration into a centralised management system.

Company details

AGISA welcomes opportunities to support municipalities, public entities, mines, agricultural clients and private developers.

Corporate information

Registered name

AGISA Consulting Engineers (Pty) Ltd

Registration number

2022/454731/07

VAT number

448 030 6564

B-BBEE

Level 2 | 125% recognition | 70% black owned

Professional indemnity

R20 million | Policy P51 019022

Contact

Telephone

065 504 8189

Email

admin@agisa.africa

Website

www.agisa.africa

Postal

PO Box 110763, Hadison Park, Kimberley, 8306

Head Offices

Northern Cape

93 Hercules Street
Herlear, Kimberley, 8301



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