

HydroDivision



VOLUTAIRETM
G R O U P

ElectriCoal
TECHNOLOGIES

FUTURE | AFRICA | INNOVATION



OPPORTUNITY STATEMENTS

Problem Statement:

- ✚ 41% of Municipal water did not generate revenue, and 35% was lost through leakage, representing an annual loss of **R9.9 billion** (2020).

Source: <https://pmg.org.za/committee-meeting/30279/>

***EThekweni Municipality fails to respond to over 18 000 water complaints within 24 hours during Covid-19**

Source: https://m.polity.org.za/article.php?a_id=571938&rep_id=5583



E.C.T - SMART WATER TANKS & TRUCKS

ElectriCoal
TECHNOLOGIES

Real World Proposed Design and Product Appeal.

E.C.T - IoT Control Platform and E.C.T Smart Water Sensor



E.C.T - E-Pad



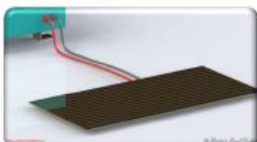
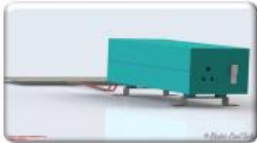
Award Winning & Patented Leak-less Valve



E.C.T - Trademarked & Patented PCB



E.C.T - Solar Power Utility Box - Urban Applications



Water Tank Dimensions

Sizes	Length mm	Width mm	Height mm	Lid mm
1000 L	1700	1100	950	450
3000 L	2500	2100	1500	450
6000 L	4150	1850	1560	450

E.C.T - RECYCLED PLASTIC FRAME



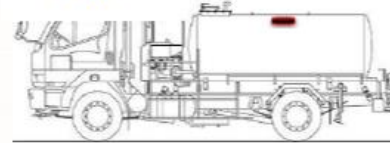
E.C.T - Solar Power Utility Box - Industrial & Rural Applications



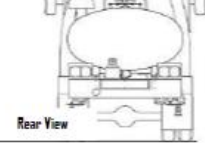
ElectriCoal
TECHNOLOGIES

The Water Truck -

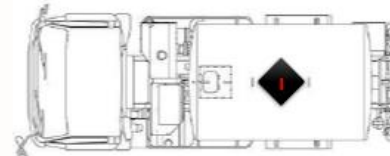
Left Side View



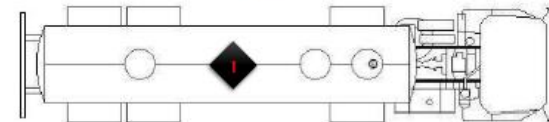
Rear View



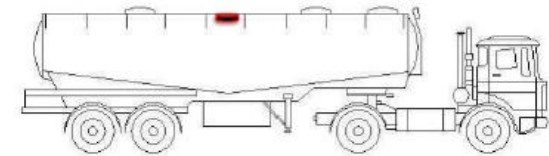
TOP VIEW



TOP VIEW



Right Side VIEW



MICROSOFT: OPEN AI SERVICE

E.C.T Official Partner ID: **6712554**



MICROSOFT: FOUNDERS HUB PROGRAM

https://foundershub.startups.microsoft.com/benefits

Sales, Marketing, & Customer Management

- LinkedIn Ads**
Supercharge your marketing strategy with LinkedIn Ads, allowing you to reach your ideal customers on the world's largest professional network.
Expires after 8/13/24
[View details](#)
- LinkedIn Sales Navigator Core**
Uncover the best leads and get data-driven insights to optimize your outreach, connect to decision makers, and close more deals with Sales Navigator.
Expires after 3/23/24
[View details](#)
- Close**
Build and scale your sales motion with Close, an out-of-the-box CRM and sales process platform made specifically for startups and growing teams.
Expires after 3/28/24
[View details](#)
- Dynamics 365 - Customer Service Enterprise**
End to end solution to deliver consistent, connected support across channels.
Expires after 3/28/24
[View details](#)
- Dynamics 365 Sales Enterprise**
Boost productivity with a sales tool that automates processes and helps sellers make more informed decisions.
Expires after 3/28/24
[View details](#)
- Dynamics 365 Team Member**
Empower your team to work better together with access to your Dynamics 365 instance.
Expires after 3/28/24
[View details](#)



MICROSOFT: AZURE IoT Hub

E.C.T Official Partner ID: **6712554**

The screenshot displays the Microsoft Azure IoT Hub portal for the resource group 'SMART-WATER-TANKS-TRUCKS-PROJECT'. The interface includes a navigation sidebar on the left with sections like 'Overview', 'Device management', and 'Hub settings'. The main content area shows the following details:

- Resource group:** SMART-WATER-TANKS-TRUCKS-PROJECT
- Status:** Active
- Location:** East US
- Service region:** East US
- Subscription:** Microsoft Azure Sponsorship
- Hostname:** ECT333.azure-devices.net
- Tier:** Standard
- Daily message limit:** 400,000
- Minimum TLS Version:** 1.2

Below these details is a grid of IoT devices, each with a name and a capacity of 100:

- E.C.T IoT Control Platform 1 : 10/10
- E.C.T IoT Control Platform 2 : 10/10
- E.C.T IoT Control Platform 3 : 10/10
- Smart Water Management Sensor 1 : 100
- Smart Water Management Sensor 2 : 100
- Smart Water Management Sensor 3 : 100
- Smart Water Management Sensor 4 : 100
- Smart Water Management Sensor 5 : 100
- Smart Water Management Sensor 6 : 100
- E.C.T IoT Control Platform 4 : 10/10
- E.C.T IoT Control Platform 5 : 10/10
- E.C.T IoT Control Platform 6 : 10/10
- E.C.T IoT Control Platform 7 : 10/10
- E.C.T IoT Control Platform 8 : 10/10
- E.C.T IoT Control Platform 9 : 10/10
- E.C.T IoT Control Platform 10 : 10/10
- E.C.T IoT Control Platform 11 : 10/10
- E.C.T IoT Control Platform 12 : 10/10
- Smart Water Management Sensor 7 : 100
- Smart Water Management Sensor 8 : 100
- Smart Water Management Sensor 9 : 100
- Smart Water Management Sensor 10 : 100
- Smart Water Management Sensor 11 : 100
- Smart Water Management Sensor 12 : 100

eThekweni Municipality P.O.C Action Plan



TD



PROPERTY OF ELERCI-COAL TECHNOLOGIES (PTY) LTD - HYDRODIVISION
| TEL: 031 260 7747 | MOBILE: 071 494 1615 | EMAIL: info@electricoal.co.za



FUNDERS



**Moses Kotane
Institute**
Research • Innovation • Excellence

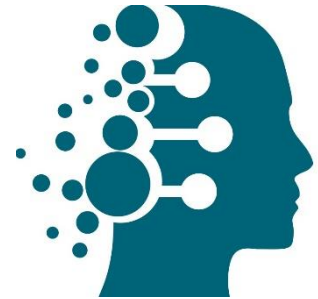
ElectriCoal
TECHNOLOGIES



TECHNOLOGY DEVELOPMENT PARTNERS



**INNOVATE
DURBAN**



AWARDS WON BY TEAM E.C.T



Team

YOUTH EXECUTIVE MANAGEMENT

W.Q.S - UKZN



Ms. Nomandla Nxusa (SA)

R.E.S - UKZN



Ms. Ntuba Nkhasi - (LS)

C.E.O - UKZN & R.B.C



Ms. Kwanele Mkhwanazi - (SA)

C.C.P.S.E - H.I.T



Mr. Nyashaf Tichivangani - (ZIM)

C.A.C.S - UJ



Mr. Eric Shandu - (SA)

C.O.O - UKZN



Mr. Rogerant Tshibangu - (DRC)

FOUNDER & R&D DIRECTOR - UKZN



Mr. Mfanelo Ndlela - (SA)



E.C.T Stakeholder Register



KWAZULU-NATAL PROVINCE

ECONOMIC DEVELOPMENT, TOURISM
AND ENVIRONMENTAL AFFAIRS
REPUBLIC OF SOUTH AFRICA



**Moses Kotane
Institute**

Research • Innovation • Excellence

**INNOVATE
DURBAN**



UNIVERSITY OF
KWAZULU-NATAL™

INYUVESI
YAKWAZULU-NATALI

Graduate School of Business and Leadership



Microsoft



pæets
PROCESS ENERGY & ENVIRONMENTAL
TECHNOLOGY STATION



ENERGY AND WATER SECTOR
EDUCATION AND TRAINING AUTHORITY



technology innovation
A G E N C Y
Innovating Tomorrow Together



CSIR

our future through science



northumbriaenergy



PROPERTY OF ELERCI-COAL TECHNOLOGIES (PTY) LTD - HYDRODIVISION
| TEL: 031 260 7747 | MOBILE: 071 494 1615 | EMAIL: info@electrical.co.za

SIYABONGA SIYI ELECTRI-COAL TECHNOLOGIES

Mr. Mfanelo Ndlela

Founder & R & D Director

ADDRESS: 240 Booth Road, Wiggins, Durban, 4091

Mobile: 071 494 1615

Telephone: (076) - 524 8322

Email: mfanelo@electricoal.co.za



Construction Industry Development Board

ME / EP / SO



MONICIPALITY
ETHEKWINI

PR68542



CENTRAL SUPPLIER
DATABASE
FOR GOVERNMENT

MAAAD568695 E68B8D57-
512E-4646-A086-
30A2C5833454



Tax Compliance Status: Compliant

Expiry Date: 26/10/2023

PIN: 148312624X & 93115F524E