



Meeting your communication needs locally



Corporate Profile





# Contents

Introduction	4
3W Growth	6
Vision, Mission & Core Values	8
Quality & HSE	9
Elsowedy Electric	10
What 3W Does	12
Turnkey Solutions	14
Oil & Gas	16
Power & Water	18
Telecom Operators	20
Transport	22
Commercial	24
Capabilities & Facilities	26
Project Customers	28
Technology Partners	29
3W Presence	30

# 3

W Networks is the largest Telecoms and Security Systems Integrator operating in the Middle East, Africa and Asia Pacific regions. The focus of 3W Networks is to provide Information and Communication Technology (ICT) and Security Solutions to Oil & Gas, Power and Water, Telecom Operators, Transport, and Commercial sectors. The company offers its clients a comprehensive range of complete turnkey and fully integrated solutions to suit any application involving Telecommunication and Networking, ELV, Cybersecurity, and Cloud & IoT.

The company is certified to ISO QMS 9001:2015, ISO/TS 29001:2010, EMS 14001:2015, BS OHSAS 18001:2007 and ISMS 27001:2013. 3W Networks is proud of its Human Capital consisting of a team of highly skilled and experienced professionals focused on providing cost effective and reliable solutions engineered and supported locally.

3W Networks Head Office and Engineering Centre of Excellence is located in Dubai, United Arab Emirates and operates across the Middle East, Africa, and Asia Pacific regions in addition to affiliated offices in over 25 countries worldwide.

3W Networks is committed to its market and is intent on becoming the Telecoms and Security Systems Integrator of choice for the Oil & Gas, Power and Water, Telecom Operators, Transport, and Commercial sectors providing advanced affordable solutions, engineered and supported locally.





- 2000
  - ▶ The Middle East operations was established at Jebel Ali Free Zone, Dubai, UAE.



- 2008
  - ▶ Recognized as one of the leading players in the market in Africa and Asia Pacific.



- 2010
  - ▶ Elsewedy Electric, a leading integrated cables and electrical products manufacturer in the Middle East, acquired a majority interest. Elsewedy Electric specializes in providing complete and integrated energy solutions.



- 2011
  - ▶ 3W Networks launches its own label for Passive Optical and Copper Connectivity Products under the brand name "3C".



- 2016
  - ▶ 3W Care is launched introducing a comprehensive customer service programme covering operational and maintenance requirements of OT and IT Networks.

2000

2006

2008

2010

2011

2013

2016

3W Networks evolved from a core team of staff based out of Melbourne, Australia. The Middle East operations was established at Jebel Ali Free Zone and later moved to Dubai's premier technology park, Dubai Silicon Oasis.

3W Networks now operates in over 25 countries either directly or through its major shareholder Elsewedy Electric.

- 2006
  - ▶ The company has expanded its operations to include Africa.



- 2010
  - ▶ 3W Networks Head Office and State-of-the Art Engineering Centre were relocated to Dubai's premiere technology park in Dubai Silicon Oasis.



- 2013
  - ▶ A new division focusing on the delivery of products and services to the Communication Service Providers (CSP) called 3W Telecom was launched.



**OUR VISION**

To become a worldwide Leader in delivering energy, services and value.

**OUR MISSION**

To deliver efficient integrated energy solutions provided with exceptional expertise and service to our customers and communities safely and efficiently.

**CORE VALUES**



**Integrity**

**Customer Satisfaction**

**Excellence**

**Ownership, Commitment & Collaboration**

**Innovation**

- Be ethical, honest and transparent
- Offer exceptional customer experience locally and globally
- Offer quality products, services and innovative solutions
- Strive to excel in every aspect of our business
- Approach challenges with determination to succeed
- Assume responsibility for actions & decisions
- Execute & deliver with sense of urgency
- Demonstrate equality, humility, and respect for others
- Collaboration and teamwork
- Identify, develop and deploy leading edge technology
- Pursue improvement tools

**DAS CERTIFICATION**  
**Quality Management System**  
 Certificate of Approval  
 This is to certify that the QMS of  
 1) 3W Networks FZE  
 2) 3W Networks LLC  
 11HO- PO Box 341184, High Bay Building, Dubai Silicon Oasis, Dubai, United Arab Emirates  
 215th- PO Box 111846, ADCP Building, Unit No. 402, Tower C, Electra Neega Street Intersection, Abu Dhabi, United Arab Emirates  
 Has been assessed and found to meet the requirements of  
**ISO 9001:2015**  
 This certificate is valid for the following scope of operations:  
 Design, Telecomm in  
 Authorised by: [Signature]

**DAS CERTIFICATION**  
**Petroleum, Petrochemical and Natural Gas Industries - Quality Management System**  
 Certificate of Approval  
 This is to certify that the QMS of  
 1) 3W Networks FZE  
 2) 3W Networks LLC  
 11HO- PO Box 341184, High Bay Building, Dubai Silicon Oasis, Dubai, United Arab Emirates  
 215th- PO Box 111846, ADCP Building, Unit No. 402, Tower C, Electra Neega Street Intersection, Abu Dhabi, United Arab Emirates  
 Has been assessed and found to meet the requirements of  
**ISO/TS 29001:2010**  
 This certificate is valid for the following scope of operations:  
 Design, Telecomm in  
 Authorised by: [Signature]

**DAS CERTIFICATION**  
**Environmental Management System**  
 Certificate of Approval  
 This is to certify that the EMS of  
 1) 3W Networks FZE  
 2) 3W Networks LLC  
 11HO- PO Box 341184, High Bay Building, Dubai Silicon Oasis, Dubai, United Arab Emirates  
 215th- PO Box 111846, ADCP Building, Unit No. 402, Tower C, Electra Neega Street Intersection, Abu Dhabi, United Arab Emirates  
 Has been assessed and found to meet the requirements of  
**ISO 14001:2015**  
 This certificate is valid for the following scope of operations:  
 Design, Sales, Procurement, Assembly & Integration of Telecommunication Systems and Other Related Equipment Including Warranty & Maintenance Support  
 Authorised by: Stan Wrig Chief Executive  
 Date of Certificate Issue: 05 September 2017  
 Certificate Valid Until: 27 July 2020

**DAS CERTIFICATION**  
**Information Security Management System**  
 Certificate of Approval  
 This is to certify that the ISMS of  
 1) 3W Networks FZE  
 2) 3W Networks LLC  
 11HO- PO Box 341184, High Bay Building, Dubai Silicon Oasis, Dubai, United Arab Emirates  
 215th- PO Box 111846, ADCP Building, Unit No. 402, Tower C, Electra Neega Street Intersection, Abu Dhabi, United Arab Emirates  
 Has been assessed and found to meet the requirements of  
**ISO 27001:2013**  
 This certificate is valid for the following scope of operations and Statement of Applicability - Dated: 30 July 2017  
 Design, Sales, Procurement, Assembly & Integration of Telecommunication Systems and Other Related Equipment Including Warranty & Maintenance Support  
 Authorised by: Stan Wrig Chief Executive  
 Date of Certificate Issue: 28 August 2017  
 Certificate Valid Until: 27 August 2020

**DAS CERTIFICATION**  
**Occupational Health & Safety Management System**  
 Certificate of Approval  
 This is to certify that the OHSMS of  
 1) 3W Networks FZE  
 2) 3W Networks LLC  
 11HO- PO Box 341184, High Bay Building, Dubai Silicon Oasis, Dubai, United Arab Emirates  
 215th- PO Box 111846, ADCP Building, Unit No. 402, Tower C, Electra Neega Street Intersection, Abu Dhabi, United Arab Emirates  
 Has been assessed and found to meet the requirements of  
**BS OHSAS 18001:2007**  
 This certificate is valid for the following scope of operations:  
 Design, Sales, Procurement, Assembly & Integration of Telecommunication Systems and Other Related Equipment Including Warranty & Maintenance Support  
 Authorised by: Stan Wrig Chief Executive  
 Date of Certificate Issue: 05 September 2017  
 Certificate Valid Until: 27 July 2020

3W Networks is at the forefront of the Integrated Management System (IMS) and Information Security Management System. The company is certified to ISO QMS 9001:2015, ISO/TS 29001:2010, EMS 14001:2015, BS OHSAS 18001:2007, and ISMS 27001:2013.

**Integrated Management System Policy** - 3W Networks is committed to strive for continual improvement, higher levels of customer satisfaction and the achievement of World's Best Practices in Integration of Telecommunication & Security Systems, Maintenance and Support in all aspects of our business. Our aim is to satisfy our customers with excellence by understanding their needs and delivering quality products and services in the agreed time at a price which represents superior value. We integrate all requirements on Quality, Occupational Health, and Safety and Environmental concerns in all of our business practices.

**Information Security Policy** – 3W Networks manage its information security environment and accountabilities, within the contexts of its operations, to ensure that its core business processes, security, reputation and interested party expectations are secured and disruption free. Information shall be managed with appropriate confidentiality, integrity and availability.





CONSULTING & TELECOM FEED



3W Networks is available to assist clients meet their emerging Information and Communication Technology (ICT) and Security Systems needs from the outset. We can initially develop the system concept design in a vendor agnostic manner to allow for the most cost-effective solution.

Further consultancy would be to develop the Front-End Engineering Design (FEED) documentation to facilitate the tendering process. Whether it's a large, complex project or a small upgrade 3W Networks delivers a multi-disciplinary approach across different market segments.

DETAILED DESIGN & ENGINEERING



Our staff are experienced in all aspects of engineering design and is capable of carrying out both front-end process design/basic engineering and detail engineering design tasks.

We have a good understanding of the process requirements and specifications used by most of the main customers and consultants in our markets. Our engineering design team is tailored to specific project scope requirements, whether for new facilities or existing plant unit revamp.

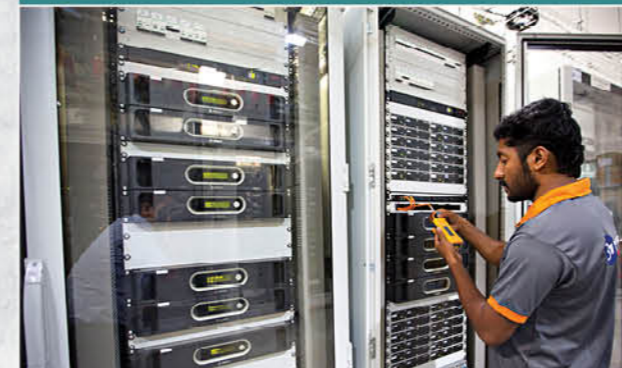
PROJECT MANAGEMENT



Project Management involves developing a project execution plan, which includes defining project goals and objectives, specifying tasks, project organizational chart, execution of FAT & Integrated System Testing, integration with 3rd parties and timelines for completion. It also includes implementing the project plan, along with careful controls to stay on the "critical path", that is, to ensure the project is being managed according to plan.

Project management usually is integrated with other phases including feasibility study, project planning, implementation, evaluation, quality planning and support/maintenance.

SYSTEM INTEGRATION AND FAT



We specialize in bringing together components and subsystems from various manufacturers and technology disciplines to deliver an optimized, integrated and cost-effective Information and Communications Technology (ICT) solutions.

All integrated systems undergo extensive testing in our System Integration Centres. This testing can be the subject of a witnessed "Integrated Factory Acceptance Test" prior to shipping and installation at the client facility.

INSTALLATION, INTEGRATED SYSTEM TESTING AND TRAINING



3W Networks is experienced with on-site installation of products for Telecommunication and Networking, ELV, Cybersecurity, and Cloud & IoT. We are familiar with the specific site safety and work permit requirements of the major operators in our markets.

This facilitates efficient and trouble-free site works with assured on time scheduling. Integrated System Testing is done at the customer premises and can be subject to client or Independent Testing Authority witnessing and approval. We have experienced trainers who can conduct all aspects of training from Solutions Basics to Operation & Maintenance.

SUPPORT, OPERATION & MAINTENANCE



3W Care provides comprehensive support to its clients based on the defined Service Level Agreements via its 24/7 operational hub.


We offer the following services:

- Telephone Support Service
- Telephone Support & Remote Diagnosis
- Routine Remote Monitoring Service
- Site Maintenance Support
- Software Support Upgrade and Bug Fix
- Routine (Preventative) Maintenance
- Total Outsourced Maintenance
- Dedicated Spares
- Repair of Client Spares
- Calibration

# Cost Effective, End to End Solutions to meet your Industrial Needs.



**End-to-End Solutions**  
International partnership with main equipment manufacturers, enables us to evolve and deliver best fit end to end solutions required by the industry.



**Local Support**  
With our local presence and available facilities & expertise, we provide technical support & services for diverse & complex networks.



**Engineering Excellence**  
Highly skilled engineers with industry wide experience, contribute in achieving high quality and affordable solutions.

3W Networks experience as an Engineering Contractor in the fields of Telecommunication and Networking, ELV Systems, Cybersecurity, and Cloud & IoT is based on providing innovative and economical solutions to clients in the sectors of Oil & Gas, Power and Water, Telecom, Transportation and Commercial.

TELECOMMUNICATION AND NETWORKING	ELV SYSTEMS	CYBERSECURITY	CLOUD & IOT
 <ul style="list-style-type: none"> <li>• DWDM/OTN</li> <li>• SDH/MSPP/MSTP</li> <li>• IP Transport</li> <li>• PDH/PCM Multiplexing</li> <li>• LAN/WAN</li> <li>• Routers, Switches</li> <li>• Industrial Ethernet</li> <li>• Wireless Radio, Paging Systems</li> <li>• Unified communication</li> </ul>	 <ul style="list-style-type: none"> <li>• Video Surveillance</li> <li>• Access Control</li> <li>• Fire Alarm</li> <li>• Perimeter Intrusion</li> <li>• Security Management</li> <li>• Intercom and Paging</li> <li>• X-ray, Road Blocker, Arm Barriers</li> <li>• Public Address and General Alarm</li> <li>• Meteorological Systems</li> </ul>	 <ul style="list-style-type: none"> <li>• Real Time Passive Monitoring &amp; Behavioral Analysis of Nodes</li> <li>• Security Information and Event Management (SIEM) Integration</li> <li>• Hardened Network Segregation using Data Diode</li> <li>• Detection and Mitigation of Threats using Nextgen Firewall</li> </ul>	 <ul style="list-style-type: none"> <li>• Smart Cities</li> <li>• Integrated Transport System</li> <li>• Personnel and Asset Tracking System</li> <li>• Smart Grid</li> <li>• Smart &amp; metering (Utilities)</li> <li>• Smart parking</li> <li>• Lighting and smart poles</li> <li>• Smart cards and mobile wallets</li> <li>• Data Centre</li> </ul>

## Complete Integrated Solutions



# Flexible Solutions for Oil & Gas and Petrochemical Industries

3W Networks has a substantial history in the design and implementation of telecom and security networks for the Oil & Gas and Petrochemical industries.

We offer products which are specifically suited for harsh environmental conditions normally associated with this industry, whether it is a pipeline across a remote desert or an offshore platform in the middle of the sea, we can offer clients a solution that best fits their needs.

Our staff are experienced in the design, integration and installation of a range telecom and security products required for the Oil & Gas industry including:

- Optical and Microwave transmission multiplexers including SDH, IP Transport, OTN, Multiservice IP/MPLS, Digital Microwave Radio.
- Access Equipment including voice and data Interfaces.
- Voice & Data Systems including Corporate Voice Network, Corporate LAN/WAN, Video Conferencing and Wireless Technology
- Security Solutions including CCTV, Perimeter Intrusion Detection, Access Control and Cybersecurity
- Safety Solutions including Public Addressing/General Alarm (PA/GA), Analog/Digital Radio (UHF/VHF/Marine).
- Outdoor & Indoor Cabling including Fiber and Copper Structured Cabling.
- Site Infrastructure including Racks/Cabinets/Shelters, Cables and Cable Management Systems.



# Reliable Solutions for Critical Environments

3W Networks understands the critical nature of the Power and Water Utilities industry and has developed a competency in building robust and secure telecom and security networks which meet the stringent requirements associated with this critical industry.

In particular we can offer solutions using products which have been hardened for use in substation environments and comply with extreme environment conditions.

Our staff are experienced in the design, integration and installation of a range of telecom and security products required for the Power and Water industry including:

- Optical Transmission
- Access Multiplexers including Voice and Data interfaces
- Copper based modems such as xDSL
- Point to Point and Point to Multipoint Wireless System
- LAN/WAN System including Voice over IP
- Electrical Substation Teleprotection
- Security Solutions, CCTV and Cybersecurity
- Public Address Systems
- Perimeter Intrusion Detection System



# Delivering End to End Solutions

3W Networks partnership with leading equipment manufacturers in the telecommunication industry allows us to provide an extensive range of carrier grade products and solutions to established and new telecom operators from the core of the network up to the access and customer premises equipment.

3W Networks is experienced in the design and implementation of telecom networks and is able to explain to clients the different products and services required to provide a solution.

Our knowledge of different equipment vendors enables us to offer operators a product agnostic perspective for each solution.

3W Networks products offering suitable for the fixed line and wireless operators includes:

**Optical Transmission Products**

- DWDM/OTN (POTS)
- Next Generation SDH from STM-1 to STM-64
- Metro Ethernet MPLS Switches
- Digital Cross Connect
- Legacy PDH
- Passive Optical Networks (PON)

**Microwave Transmission Products**

- OFDM & WiMax
- Point to Point and Point to Multipoint
- SDH- STM1, STM4
- PDH- 2Mbps, 8 Mbps, 34 Mbps

**Ethernet/ IP**

- Carrier Ethernet Transport
- Metro Ethernet

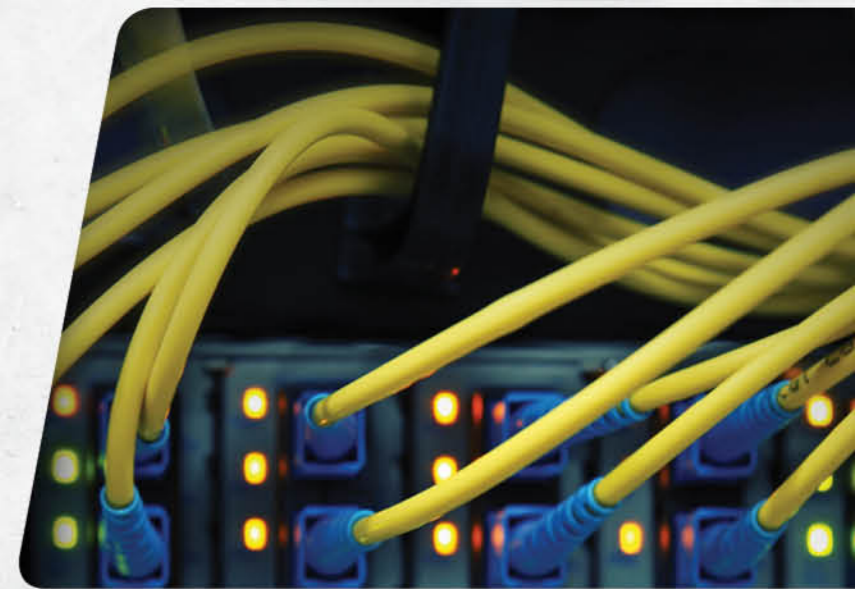
**Multi Service Access Delivery**

- Ethernet, Video, Voice
- xDSL Technology

**Customer Premises Equipment**

- Optical, Ethernet & Copper

3W Networks also offers a range of complimentary products such as synchronization clocks, optical management systems, telecom racks and test equipment.



# Cost Effective, Flexible Solutions for the Transport Sector



The number of applications used in a metro & light rail environment is significant. These devices and applications need to communicate with their peers in remote stations, with the central control room or depot, even beyond the limits of the metro & light rail premises.

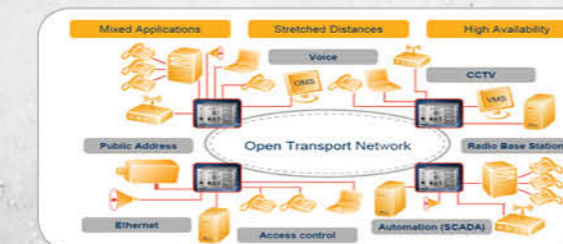
All these multiservice applications have to be transmitted via a single, reliable communication backbone. Many of these applications require a nonstop availability of the communication backbone. Rail operators need a cost effective solution, not only in terms of procurement, but also in terms of maintenance and expansions.

3W Networks understands the importance of reliability and resiliency required in the transport sector and our partnership with leading equipment manufacturers allows us to provide you innovative Open Transport Network solutions based on the latest Fiber optical technology.

We offer you the most reliable, open and easy-to-use systems available in the market.

3W Networks product offering suitable for the Transport sectors (Metro, Rail, Roads and Ports) includes:

- Optical Transmission
- Voice over IP Solutions
- Security Solutions & CCTV
- Access Control System
- Public Address Systems
- Passenger Information Systems
- Intelligent Transport Systems
- Radio Communications Systems (GSM-R, Tetra)
- Car Park Management Systems
- Central Clock Systems
- Cybersecurity

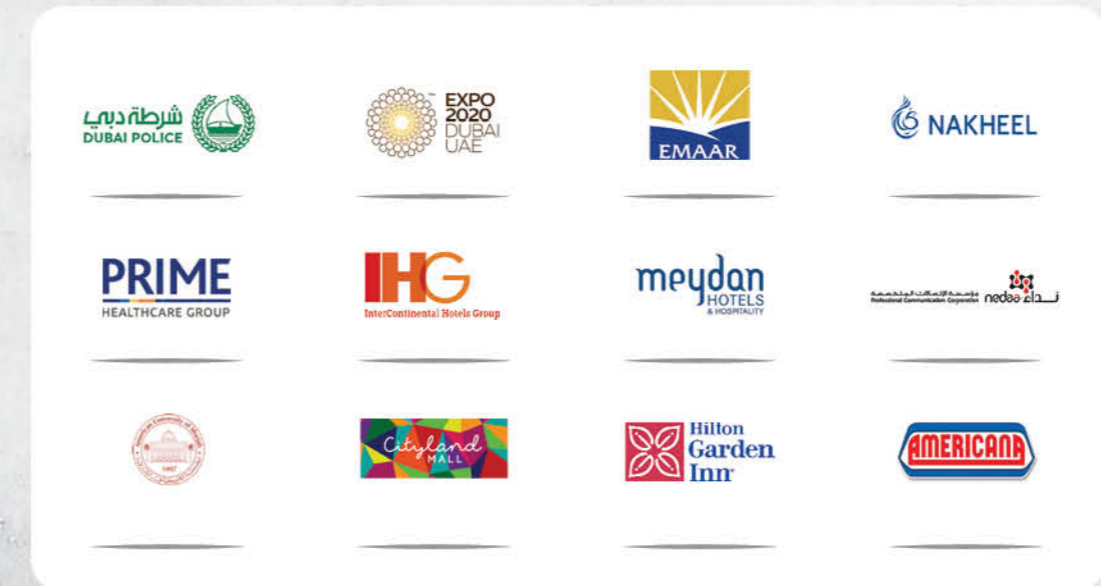


# Secure, reliable, and scalable end-to-end ELV and Security Systems solutions for the Commercial sector



3W Networks is a provider of secure, reliable, and scalable end-to-end IT and Low Current IT solutions that helps our customers achieve competitive advantage, productivity and business growth. By partnering with major suppliers, we are able to offer unmatched breadth of technologies in a broad range of product line network solutions including routing and switching, voice and unified communications, video and content delivery, optical and telepresence, wireless, and broadband. We also offer storage networking, security and management, application network services, and server networking and virtualization.

Apart from providing innovative solutions and products, 3W Networks delivers complete service and support for efficient implementation and deployment of business-aligned IT infrastructures for small and mid-sized businesses and large-scale enterprises.



# State of the Art Integration Facilities



### Integration Center

State of the Art integration Facilities consisting of over 1000 sqm in Dubai, Abu Dhabi and Cairo with the capacity to assemble and integrate in excess of 500 telecom cabinets. These facilities are used to conduct Integrated Systems Tests and Factory Acceptance Tests.

### Cabling Solutions

Our dedicated professionals are experienced in Fiber optic cable laying and supervision, cable jointing, termination and splicing. Our field capability includes the live installation of OPGW.

### Tools & Test Equipment

Equipped with the latest test equipment including Optical Transmission Network Testers, Microwave Radio Spectrum Analyzers, E1 & Channel Level Voice & Data Testers, Fusion Splicers and Optical Time Domain Reflectometers.

### Laboratory and Demo Equipment

The facility has various types of different manufacturers equipment which enables our engineers to simulate customer networks and troubleshoot specific field problems.

### TAC Support

A Technical Assistance Center operational 24x7 for customer support in accordance with defined service level agreements.

### Spares Holding

Dedicated access to a shared pool of spares is available to customers who do not wish to hold their spares at site.

### Repair Facility

Card repairs for all manufacturers are offered via the logistics hub of the Dubai Silicon Oasis Free Zone.

### Warehousing

A large capacity warehouse facility in a customs free environment with fast access to air and sea ports.

### Human Capital

A pool of competent engineers and technicians are trained on different products and services offered by the company. Our Engineering staff are able to provide an advanced level of support including Network Design, Systems Integration & Testing, Field Installation & Commissioning, Project Management & Engineering and Operations & Support.

### Training Facility

The training centres offer product specific training in a formal environment and practical hands on training using the facilities of the integration centres. On-site training is conducted by our experienced Commissioning Engineers.

### Drafting and Documentation

In house capability to customize design and As Built project specific documentation using industry standard software packages.

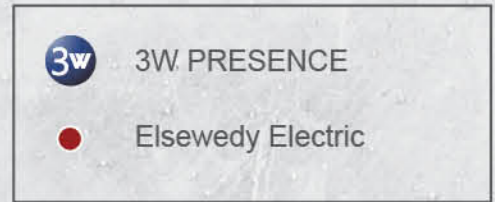
Project Customers



Technology Partners



3W Presence



#### HEAD OFFICE

PO Box No. 341184  
High Bay Building, Dubai Silicon Oasis, Dubai,  
United Arab Emirates  
Tel: +971 4 326 7744 Fax: +971 4 326 7755  
Email: [info@3wnetworks.com](mailto:info@3wnetworks.com)

[www.3wnetworks.com](http://www.3wnetworks.com) | [www.elsewedyelectric.com](http://www.elsewedyelectric.com)



# ELSEWEDY --- ELECTRIC



Integrated Energy Solutions