

ABOUT US

Get to know HTC (Hussam Technology Company LLC)

TELECOM SOLUTIONS

Our Telecom Solution Offerings

02

SAMPLE TELECOM PROJECTS

Key projects designed, constructed, delivered and maintained

03

ENERGY SOLUTIONS

Our energy solution offerings

04

SAMPLE ENERGY SOLUTIONS PROJECTS

Key projects engineered, procured, constructed, operated and maintained

05

OUESTIONS & ANSWERS

We're here to address your queries





Hussam Technology Company L.L.C.





HTC, since its inception in 2006, has chartered its own path towards becoming a reliable and innovative system integrator in the telecommunications sector and has played a significant role in the private network market of Oman. As the nation engages and enters into a foray of sustainable energy, HTC leveraged on its strengths and is a first mover in the energy transition having established its leading presence in distributed solar and expanding into energy efficiency.

We at HTC are determined to enriching the lives of people in regions of our operation through deployment of better technology solutions. We are committed to providing reliable, dependable and value-for-money solutions and services by identifying gaps in the market, seeking pertinent solutions, associating with pertinent technology providers and executing at best market standards. We put great emphasis on Quality, Health, Safety and the Environment to ensure adherence to highest professional and technical standards, which comply with QHSE and local regulatory requirements. We strongly believe that with our professional and enthusiastic staff, support of our stakeholders and trust of our clients, we will be capable of accelerated growth in expanding our offerings and delighted client base

Our History At A Glance





Private & Public (ISP) Wireless Infrastructure

First-ever Grid-Connected Solar PV Plant

Mass-scale Residential Solar PV

Software Management Solutions



first Private Network registered with the TRA, Oman's first wireless mesh network, Oman's first TRA registered FSO (free space optics link), Oman's first MMW (millimeter wave) link, and Oman's first L1 encrypted DWDM network. HTC partnered with telecom providers and selected by oil & gas concession holders to deliver over 4,000 last mile installations



In 2016 HTC diversified into Energy starting with grid-connected PV plants. HTC delivered

Oman's first AER-compliant grid-connected plant. This was followed by Oman's first East-West

ballasted system which withstood 173 km/hr cyclone, Oman's first bifacial PV plant, and subsequently

Oman's first tracker PV plant HTC's currently leads the distributed solar PV market with over 30MW* contracted HTC's clients include Shell, PDO, BP, Engie, ACWA, OAMC and ROP.

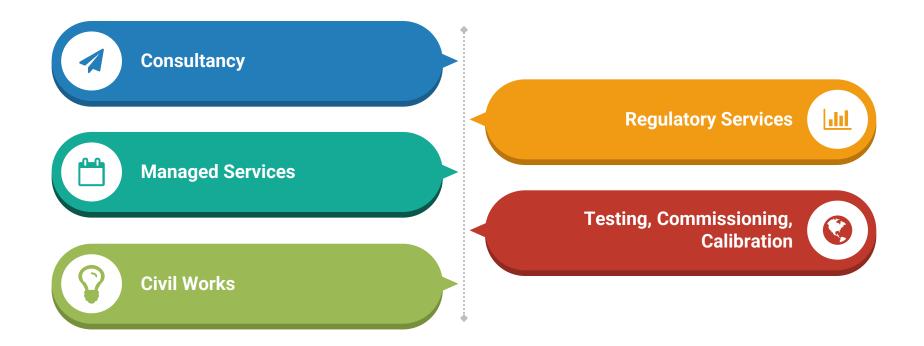
Our Solutions

Telecom Private & Carrier Network Solutions Cloud Solutions Telecom Infrastructure Towers, Shelters, Management, Accessories **Automation & IOT Network Test Measurement** & Assurance



Our Services

Telecom & Energy





ENRICHING LIVES WITH INNOVATION TO DELIGHT



MARKET

In the areas of our operations we are experts ahead of the curve and are recognised as the "goto" solution providers



OPERATIONS

Operational excellence and perpetual process innovation are cornerstones for delivering value to our stakeholders



PEOPLE

Talented inspired
effective people
performing who are
living our WOW culture
is the engine of our
enterprise



IMPACT

Enriching lives with innovation to delight, is the vision we continuously work to achieve and the legacy we wish to deliver

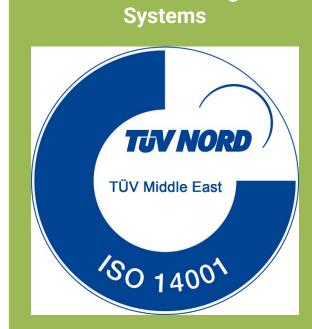


HSE Policy

HTC is firmly committed to a policy enabling all work activities to be carried out safely, and with all possible measures taken to remove (or at least reduce) risks to the occupational health, safety and welfare of our stakeholders who may be affected by our operations. In pursuit of this, we are committed to ensuring we comply with the (global standardization) as far as possible. We actively communicate our policy to all stakeholders by suitable means and periodically review its relevance in continuously changing business environment. We also seek the co-operation of all workers, customers and other persons. Further, we encourage suggestions for realizing our health and safety objectives to create a safe working environment with a zero-accident rate. The HSE policy applies to all business operations and functions, including those situations where workers are required to work off-site







Environmental Management

Design, Project Management, System Integration, Commissioning, Testing and After Sales Support for Wired and Wireless ICT Solutions and Solar Plants



Our Valued Clients





















































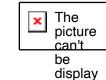












ed.

Key HTC Solution Components

Optical Transmission



Wireless Backhaul. Metro & Access

Indoor Solutions

Renewable Energy





























UBIQUITI



























Mesh Network

Oman's First >350km2 Private Wireless Network To Connect Oil Rigs.



Description

2007 – Oman's first >350km2 private wireless network to connect oil rigs.

Unique Feature

Hybrid Mesh solution for Data, Voice and Video using 5Ghz unlicensed frequency band



Client MedcoEnergi

Location Nimr

Capacity 2Mbps at Rig location

Type Mesh Dynamics PTP/PMP

DWDM

Oman's 1st Private Enterprise DWDM network



Description

40Gbps full duplex speed connectivity between ORPIC Sohar and ORPIC MAF via ORPIC Jifnain. ORPIC HO integrated with 10Gbps in the same network.

Unique Feature

High capacity 40Gbps with low latency DWDM solution for Data, Voice and Video communication.





Client OQ(ORPIC)

Location MUSCAT - SOHAR

Capacity 40Gbps

Type DWDM Equipment from Adva Optical

Networking, Viavi, Passler

Free Space Optics

First TRA Approved Installer of FSO in Oman and market share leader

Description

FSO 100/1000Mbps full duplex PTP link is installed for clients to extend LAN connectivity between sites

Unique Feature

Free-space optics (FSO) solution is a unique in that they use beams of light for data transfer and are license-free worldwide. The latency associated with a FSO link is < 1ms.

Client OFIC, OAB, Bank Dhofar, Bank Muscat,

NBO, MSM

Location Muscat

Capacity 100/1000Mbps full duplex

Type fSona & LightPointe



Millimeter Wave Technology

MMW Technology



Description

MMW 1Gbps – 10Gbps full duplex back to back PTP for different customsers in

Unique Feature

MMW 80GHz licensed frequency band equipment supports up to 10Gbps TCP/IP full duplex speed. Products with an adaptive capability that can drop and increase the speed depending on environmental conditions. The latency associated with a MMW link is <40 us.

Client OQ (OOCEP), Bank Dhofar, OAB, IBN

SINA, OXY, Ahli Bank, DHL etc

Location Oman

Capacity 1Gbps - 10Gbps full duplex

Type FP80, BridgeWave Communications

Oil & Gas Concession Coverage

Private Wireless Network for Oil & Gas Field

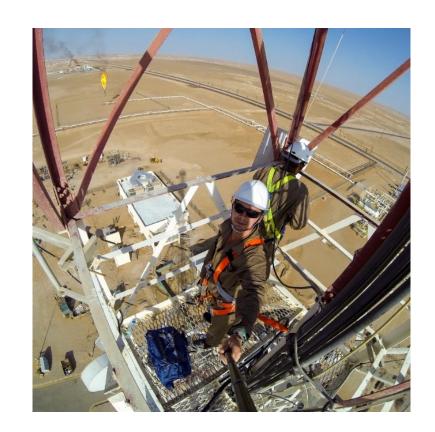
Description

1000km2 private PTP/PMP wireless links network to connect oil wells, rigs, hoist and remote offices.

Unique Feature

Prior to 2014, Daleel used VSAT and GPRS technology to connect all its wells and rigs with its Centralized System. Such technology proved to be unreliable and slow at higher cost. Our Solution helps Daleel to integrate all the services like audio, video and critical operational data flow using same technology with high bandwidth and better QoS.

Client	Daleel Petroleum
Location	Ibri
Capacity	Up to 500Mbps (PTP-500Mbps half duplex and PMP-300Mbps half duplex)
Туре	PTP/PMP Equipment form InfiNET Wireless



NBO

Extending Network



Description

Seven Branches (Mawalla, Baushar, Ghala, Azzaiba, Shaati, Qurum) are connected to HO using InfiNet Wireless

Unique Feature

Being LAN Extension gives an added advantage over traffic flowing through public network, thus almost negligible chance of hacking or data theft etc.

Client **National Bank of Oman**

Location **Oman**

Upto 1 Gbps Capacity

PTP Links Type

OQ Oman

Private Wireless Network for Oil & Gas Field



Description

Extending Lan Network

Unique Feature

OQ uses InfiNet Equipment to connect assests in Fahud, and extending LAN network to Outside offices in Sohar

Client OQ

Location Fahud, Sohar

Capacity Up to 1000Mbps

Type PTP form InfiNET Wireless

IP Network

SCADA Network for Oil Pipeline

Description

1Gbps full duplex speed dual LAN ring connectivity to SCADA system. 10Gbps full duplex dual LAN ring for office data and voice network from ORPIC Sohar through different BVS stations till ORPIC MAF with an extension to ORPIC Jifnain.

Unique Feature

High capacity with low latency solution from Huawei

Client ORPIC

Location MUSCT - SOHAR

Capacity 10Gbps and 1Gbps

Type Huawei









Fiber Monitoring

SCADA Network for Oil Pipeline



Description

Monitoring fibre health- Two fibre path between ORPIC Sohar and MAF (MSCP and MSPP). To identify fibre attenuation loss, bend, aging and fibre cut.

Unique Feature

This system identify fibre attenuation, bend, aging and cut and raise alert through send sms and email. The message includes the event occurs with exact location's coordinate thus, reduces service downtime.

Client ORPIC

Location MUSCAT-SOHAR

Capacity NA

Type Viavi Solutions

Ooredoo/NEC

Installation & Drive Test of LoRa IoT



Description

LoRa IoT solution to measure water and electricity readings.

Unique Feature

Licensed frequency band radio with Omani directional Antenna to cover 360-degree coverage.

Client **NEC/Ooredoo**

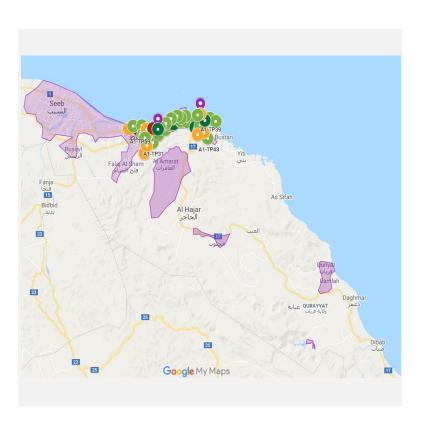
Location **Oman**

Capacity 50Kbps

Type LoRa IoT

Momkin

Drive Test for SigFox Network IoT



Description

SigFox IoT solution

Unique Feature

Licensed frequency band radio with Omani directional Antenna to cover 360-degree coverage.

Client Momkin by passive system

Location Oman

Capacity 50Kbps

Type Sigfox IoT

Fibre laying

Fiber Laying



Description

3km excavation and fibre pulling for Saud Bahwan Group to connect DATA center to DR site. .

3.5Km excavation and fibre pulling for ORPIC to connect DATA center to DR site.

Unique Feature

Obtaining approval from all the concerned entities to pull fibre in public places.

Client Saud Bahwan Group & ORPIC

Location SBG-Wattayah and ORPIC-MAF & Sohar

Capacity NA

Type Civil work & Fibre laying

Tower Installation

Supply & Installation of Towers

Description

Supply & Installation of Three 40m Towers in Daleel Block 5

Unique Feature

Supply & Installation of the towers with the highest HSE Standards.

Client Daleel

Location Ibri

Capacity NA

Type 40m Tower



Our Valued Clients





















































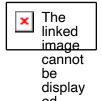
















Pilot Residential Solar PV Project

Oman's First Residential PV Project With Pergolas



Description

Pilot project for 10 villas at PDO Ras al Hamra for solar PV integration at residential scale

Unique Feature

HTC installed 4 villas with solar pergolas with dual glass/frameless PV modules serving as an aesthetic shade atop villas

Client **Petroleum Development Oman**

Location Ras Al-Hamra, Muscat

40 kWp = 10 kWp x 4 VillasCapacity

Monocrystalline, roof-mounted Type

Solar Energy Training Facility

Oman's First DCRP Approved Solar Training Facility

Description

Oman's first DCRP approved Solar Training Centre preparing Omani/Expat engineers to become certified Solar PV experts

Unique Feature

HTC installed 4 systems representing different kinds of installations such as south facing, east-west, metal corrugated sheet, and ground mount

Client Shams Global Solutions

Location GUTech, Halban

Capacity 12 kWp

Type Ground, Ballast, Metal Shed, E-W Mounts



Solar Into Schools

Oman's First AER Compliant Grid-connected PV Plant on Metal Corrugated Sheet Canopy



Description

Oman's first APSR compliant grid-connected Solar PV plant

Unique Feature

HTC installed the Solar PV plant on the school's canopy (metal corrugated sheet), equipped with module level monitoring and DC disconnect allowing rapid shutdown when required

Client **Shell Development Oman**

Location Buraimi

120 kWp Capacity

Monocrystalline, metal roof mounted Type

Solar Into Schools

Oman's First Bifacial Solar PV Car Park

Description

Oman's first bifacial Solar PV plant installed as a carpark

Unique Feature

HTC installed the Solar PV plant with bifacial dual-glass modules serving as an aesthetic carpark

Client Shell Development Oman

Location Suhar

Capacity 150 kWp

Type Monocrystalline Bifacial, Car Park



MOG – Solar PV Car Park

Oman's First Solar PV Plant Installed At A Ministry Premises



Description

This paragraph is intended to display basic information about the project

Unique Feature

HTC installed the Solar PV plant over the carpark with multiple orientations while still keeping the system electrically balanced with DC combiner boxes and single MPPT inverters

Client Petroleum Development Oman

Location Ministry of Oil and Gas, Muscat

Capacity 520 kWp

Type Monocrystalline, Car Park

Ibri - II R&D Plant

Oman's First R&D Facility For A Utility Scale PV Plant

Description

The R&D plant for ACWA power for Oman's first 500 MW Solar PV IPP (Ibri-II)

Unique Feature

HTC installed the facility with two key areas:

- 1) Albedo assessment area installing multiple albedometers measuring albedo for a variety of materials to be selected for Ibri-II
- 2) PV module assessment area installing a dozen module makes to facilitate ACWA's assessment and decision on the module make for Ibri-II

Client **ACWA Power**

Location Ihri

Capacity 50 kWp

PV System and Monitoring System Type



Solar Pre-feasibility & Consultancy

Oman Airports



Description

Oman's first solar pre-feasibility and consultancy project

Unique Feature

HTC along with its partners conducted the pre-feasibility for all 4 airports in Oman (Muscat, Suhar, Duqm, Salalah). Deliverables included detailed engineering and tender documents for EPC and BOOT model

Client Oman Airports Management Company

Location Oman

Capacity ~20 MWp

Type Rooftop, Ground Mounts, Car Parks

Shell's Solar Into Schools

Imam Nasser bin Murshid School, Rustag

Description

Oman's First Solar PV tracker (single-axis)

Unique Feature

HTC installed the single axis tracker with bifacial (83%) and monofacial (17%) for analysis on actual gains in specific yield between monofacial and bifacial technologies

Client Ministry of Education (sponsored by Shell

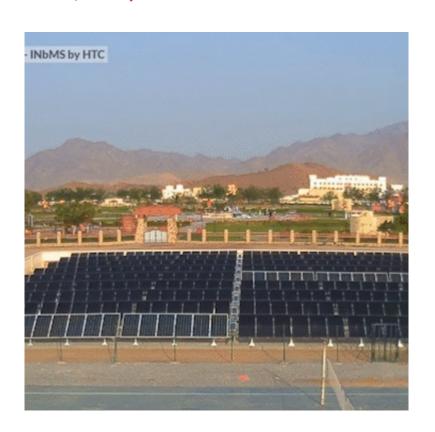
Development Oman)

Location Rustaq

Capacity 120 kWp

Ground Mounted - Single Axis Bifacial Type

Tracking System



Shell's Solar Into Schools

Imam Nasser bin Murshid School, Rustaq

Description

Oman's East-West Mounting System

Unique Feature

HTC installed the single axis tracker with bifacial (83%) and monofacial (17%) for analysis on actual gains in specific yield between monofacial and bifacial technologies

Client Ministry of Education (sponsored by Shell

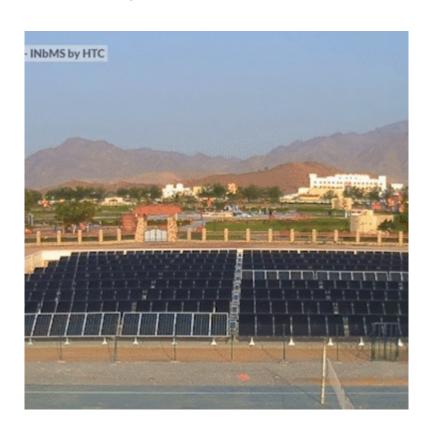
Development Oman)

Location Rustaq

Capacity 120 kWp

Type Ground Mounted - Single Axis Bifacial

Tracking System



THANK YOU

