



TELECOM INFRA PROJECT



coreNOCSM
Future Connected

BSCT
GROUP

Simple Site Solution

Small Cell Site Best Practices

Rural Site Configuration PlugFest Workshop - 2021

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- Rapid Deploy Solutions



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SMALL CELL SITE

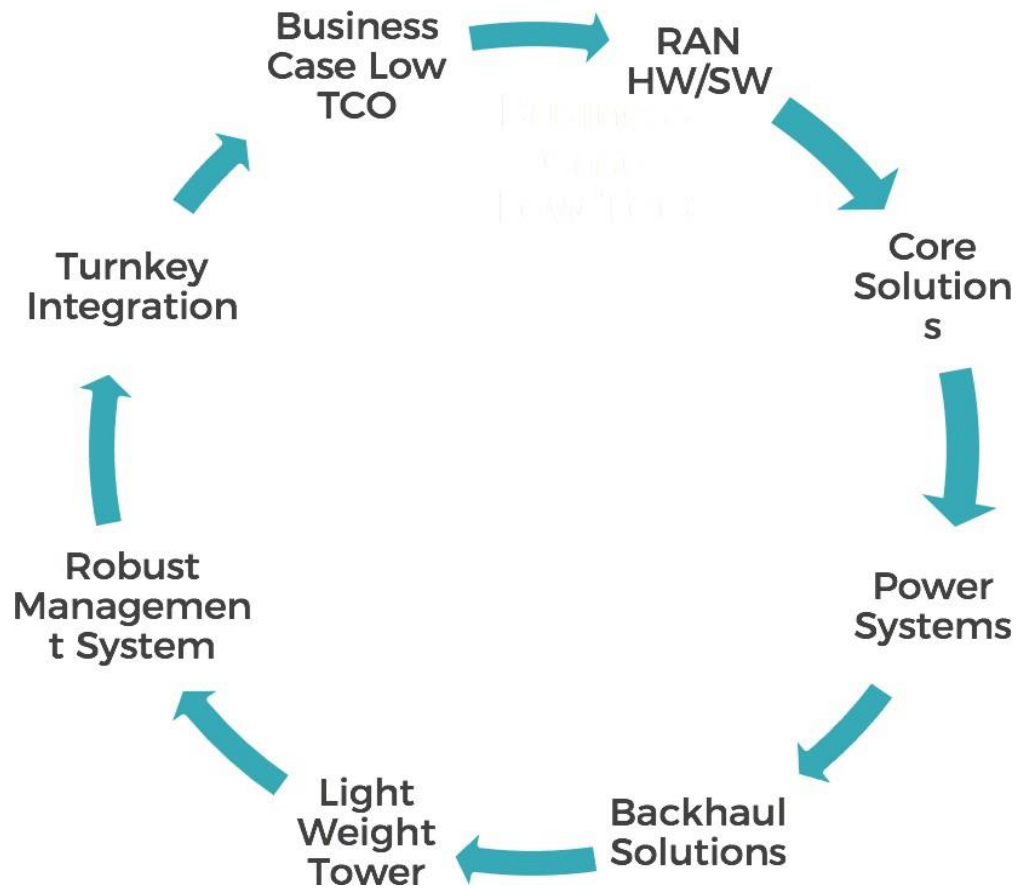


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Simple Small Cell Site Solution



SMALL CELL SITE



Small Cell Site at a Glance

CapEx:	Under USD 20k per site
OpEx:	Less than USD 3k per month
Offering:	4G VoLTE
Town size:	1000-3500
Site Type:	Greenfield
Power:	Off-Grid
Coverage:	1km to 4km
Site Power:	150 Watts Max
Backhaul:	vSAT Satellite (KA Band)
Tower Hgt:	7 meter
Security:	Fencing/Community Support

Small Cell Site Major Impact

Our solution is more affordable, easier to install and flexible to adjust.

Small Cell Site Major Deployment Impact

Our solution very light weight, easy to transport, uses a concrete-less base and can be deployed in hours!

Small Cell Site Major Take-Aways

Affordability, Deployment Speed & Agility

RAN RADIO



BENEFITS

- Low power usage with max connections
- Up to 4 km of coverage
- Data throughput of 110 Mbps down
- Omni antenna with low footprint
- Affordable & feature rich RAN solution
- Simple commissioning & remediations

SPECIFICATION

- 2T2R MIMO
- B41 -2.5 GHz
- 2 Carriers / 96 users
- 2 x 10-Watt Output with = < 160W Max
- 17.3 x 9.5 x 5.5" / 440 x 240 x 140 mm
- TR69 Support & Integration

LIGHTWEIGHT FAST DEPLOY MAST



BENEFITS

- Fast Deploy for Rural Applications
- Concrete-Less or Concrete (4 Anchors)
- Hand Tool Assembly
- Light Weight & Easy to Transport
- Option to Manufacture In Country

SPECIFICATION

- Light Weight Aluminum
- 20 Foot Height (6 meters)
- 60 " Sections
- 2" x 2" Square Frame
- Built in Mounting Tabs for Equipment
- Wind Load Figures Change with Setup

SATELLITE BACKHAUL



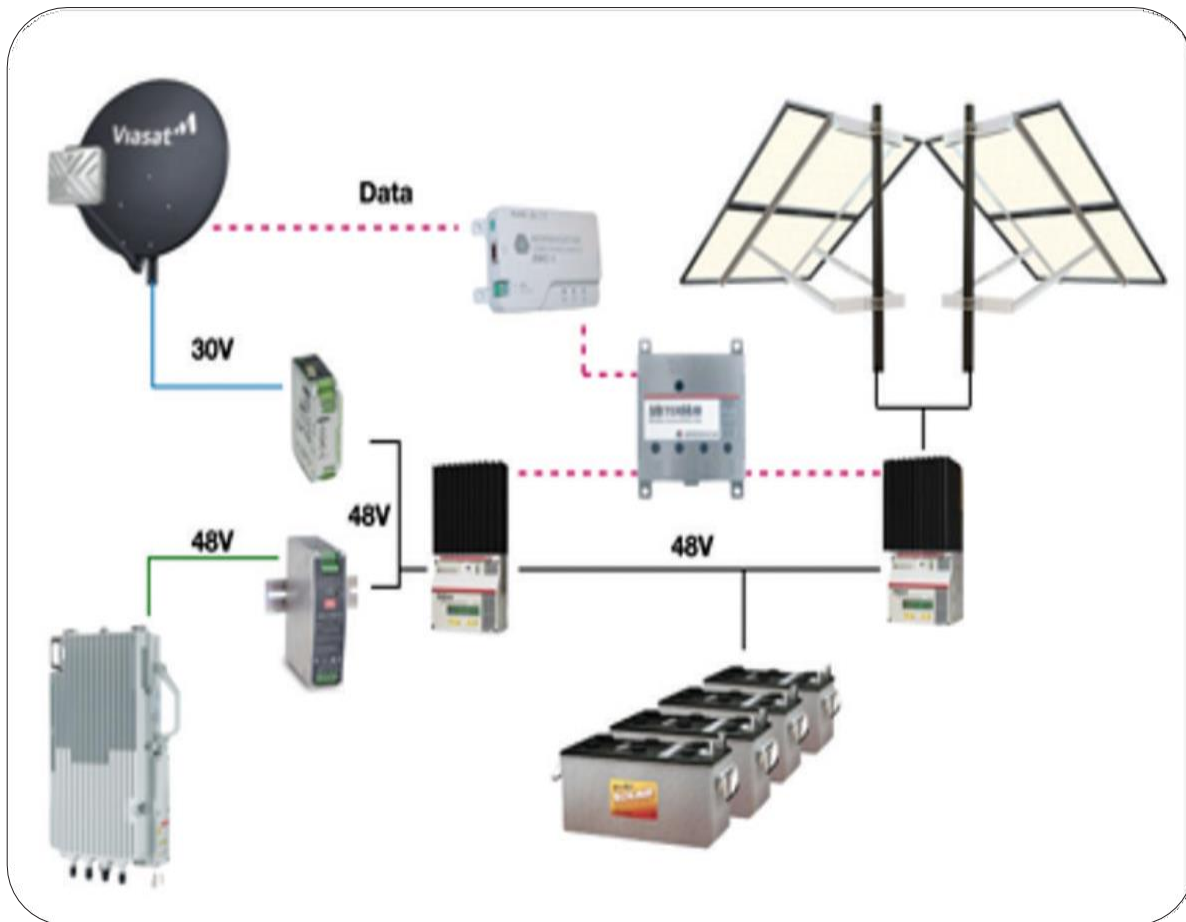
BENEFITS

- Fast Proven Internet Connection
- Sophisticated Quality of Service (QoS)
- Built-in TCP and Web Acceleration
- TR-069 Based Remote Management
- Adaptive Coding and Modulation (ACM)
- Automatic power control
- High availability during fades

SPECIFICATION

- High Capacity KA Band (27.5 to 30.0 GHz)
- Max 70-Watt Power Consumption
- Reflector size 77×72 cm & Weight 30 lb.
- Packet classification and filtering
- Enterprise IDU modems
- Transparent TCP and HTTP acceleration

100% OFF GRID POWER SYSTEM



BENEFITS

- Completely Off-Grid Power Solution
- Integrated Design for:
 - Cabinets
 - Solar Array
 - Batteries
 - Charge & Load Controllers
- Remote Access to Power Health Metrics
- Complete DC System to Maximize Efficiency
- Cabinet: Option to Manufacture in-country
- High Availability
- 30% +/- CapEx Impact

SPECIFICATION

- 200-Watt Max Capacity
- 48 Volt DC System
- 4x 12V Batteries (198 AMP hours)
- 4x 375-Watt Panels (1.5 KW)
- IP66 Smart Cabinet: 3 shelves & Locking door



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RAPID DEPLOY SYSTEMS



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RAPID DEPLOY SYSTEMS



**Cell Site on Wheels
(COW)**



**Cell Site On Light
Truck (COLT)**



**Integrated Container
(BULL)**

- Quick small cell site network build out
 - COLT Deploy in 10 minutes
- Rapid response to disaster areas
- Scalable single cell site to data center
- 100% Off-grid power solutions
- Hybrid off-grid 1 year (Solar, Diesel, & Wind)

- Create a grid for expandable coverage
- Independent communications network
- High speed internet - 4G/5G/WiFi
- Self Contained 80' to 120' Mast
- Deployable by Truck or Helicopter
- Temporary or Long Term



TELECOM INFRA PROJECT

For more information
please contact

BSCT
GROUP

Info@BSCTGroup.com

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