



**NEW OPTIC LLC**

**Ulaanbaatar. 2020**



# Main activities

## ICT license



**Telecommunication Infrastructure,  
Tower Construction,  
Communication Cable Installation**  
(Communication Regulatory  
Committee)

## Energy and Power Source Construction License



**Electrical Line, Substation and  
Power Source Construction to  
100MW / 0.4-110 kV**  
(Ministry of Energy)

## Building Construction License



**Construction up to 16 Floor / Tower  
Construction above 30 m**  
(Issued by Construction Development  
Centre, Ministry of Construction and Urban  
Development)





# Human resources



• All Staff	35<
• Top management	2
• Chief Engineer	1
• Consultant (Energy, ICT)	2
• Senior Engineer	2
• Accountant	2
• Safety Engineer	2
• Telecom Engineer	3
• Electric Engineer	2
• Construction Engineer	2
• Technician	5
• Electrician, Welder	3
• Excavator Operator	4
• Drivers	3
• Workers	4<





# In the working field







# Mechanisms & Vehicles

- Excavators 4
- Trucks Heavy 1
- Trucks Light 2
- Bulldozer 1
- Vehicles 3
- Auto Crane 1
- Pick-Up 2
- SUV 4WD 2
- Lift Machines 6





# Business Partners

## Companies & Corporates

## Government & State Owned Companies

### Local Partners



### Overseas Partners







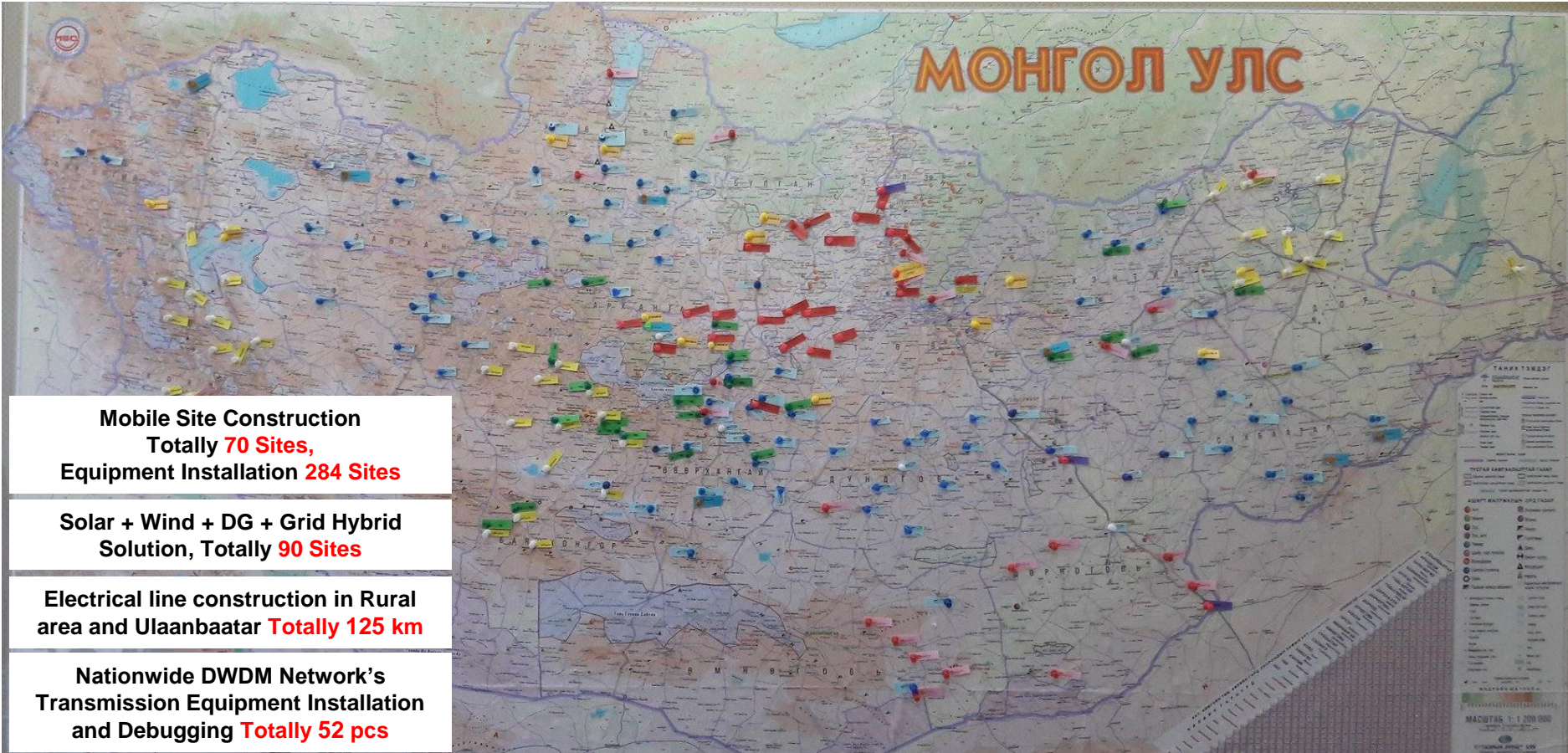
# Completed Projects in Telecom Field

## Mobile Site Construction: G-Mobile, Mobicom, Unitel and Skytel (Totally 96 Sites)

- Tower and Building Construction (Tower height of 10-70m)
- Electrical line and substation construction (0.4kV-35 kV)
- Solar power system, Wind & Solar combined system supply (3kW-20kW)
- Equipment installation and debugging construction and equipment installation works

## Solar + Wind + DG + Grid Hybrid Solution

- Mobicom 22 sites (4 pcs of 8kW, 13 pcs of 5,6kW and 6 pcs of 2,3kW)
- G-Mobile 45 Sites (2-4 kW), Unitel 5 Sites (4kW Solar+2kW Wind), Skytel 8 Sites
- Electrical equipment Supply and Installation /UPS, Rectifier, ATS, STS, Battery and cables
- XacBank, Mongolia Telecom, Mobicom, Skytel, Unitel 75 pcs



Mobile Site Construction  
Totally **70 Sites**,  
Equipment Installation **284 Sites**

Solar + Wind + DG + Grid Hybrid  
Solution, Totally **90 Sites**

Electrical line construction in Rural  
area and Ulaanbaatar **Totally 125 km**

Nationwide DWDM Network's  
Transmission Equipment Installation  
and Debugging **Totally 52 pcs**





# Oyu Tolgoi Open Pit Communications Coverage Extension 30 m tower







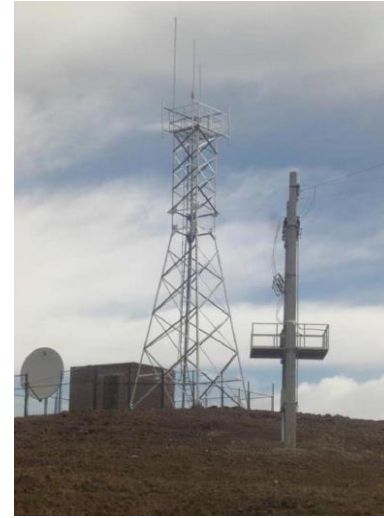
# Site Construction Work Experiences



**30 m Tower, 4x4 shelter,  
Uvs Province**



**Skytel 15 m Tower, 4x4  
shelter, Uvs Province**



**Skytel 20 m Tower, 4x4  
shelter, Uvs Province**



**20 m Tower, Selenge  
Province**



**Unitel 20 m Tower, 4x4 shelter,  
10/0,4kV Power System, Arkhangai  
Province**



**G-Mobile 10 m Tower, 4x4 shelter,  
Arkhangai Province**



**Mobicom 20 m Tower, 4x4 shelter,  
Huvsgul Province**



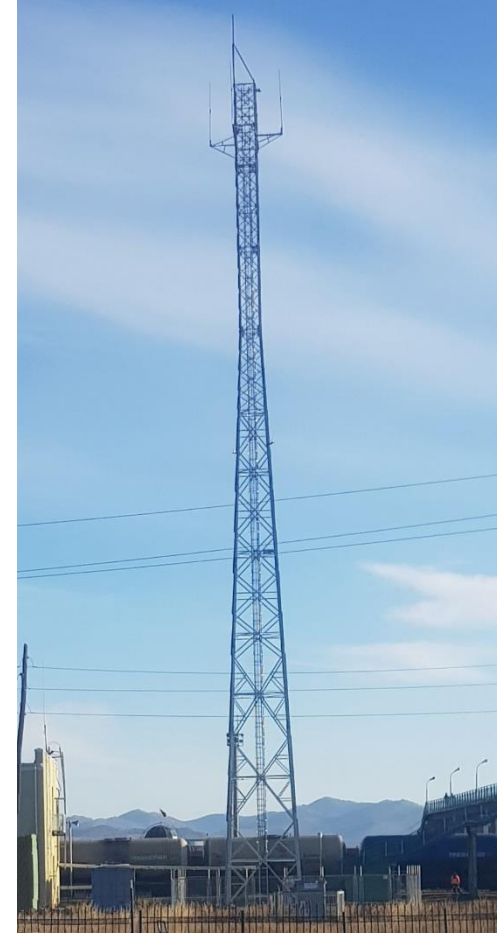
# Tower Construction Work Experiences



**40 m Tower, Ulaanbaatar  
railway, Tuul stage**



**70 m Tower, Ulaanbaatar  
railway**



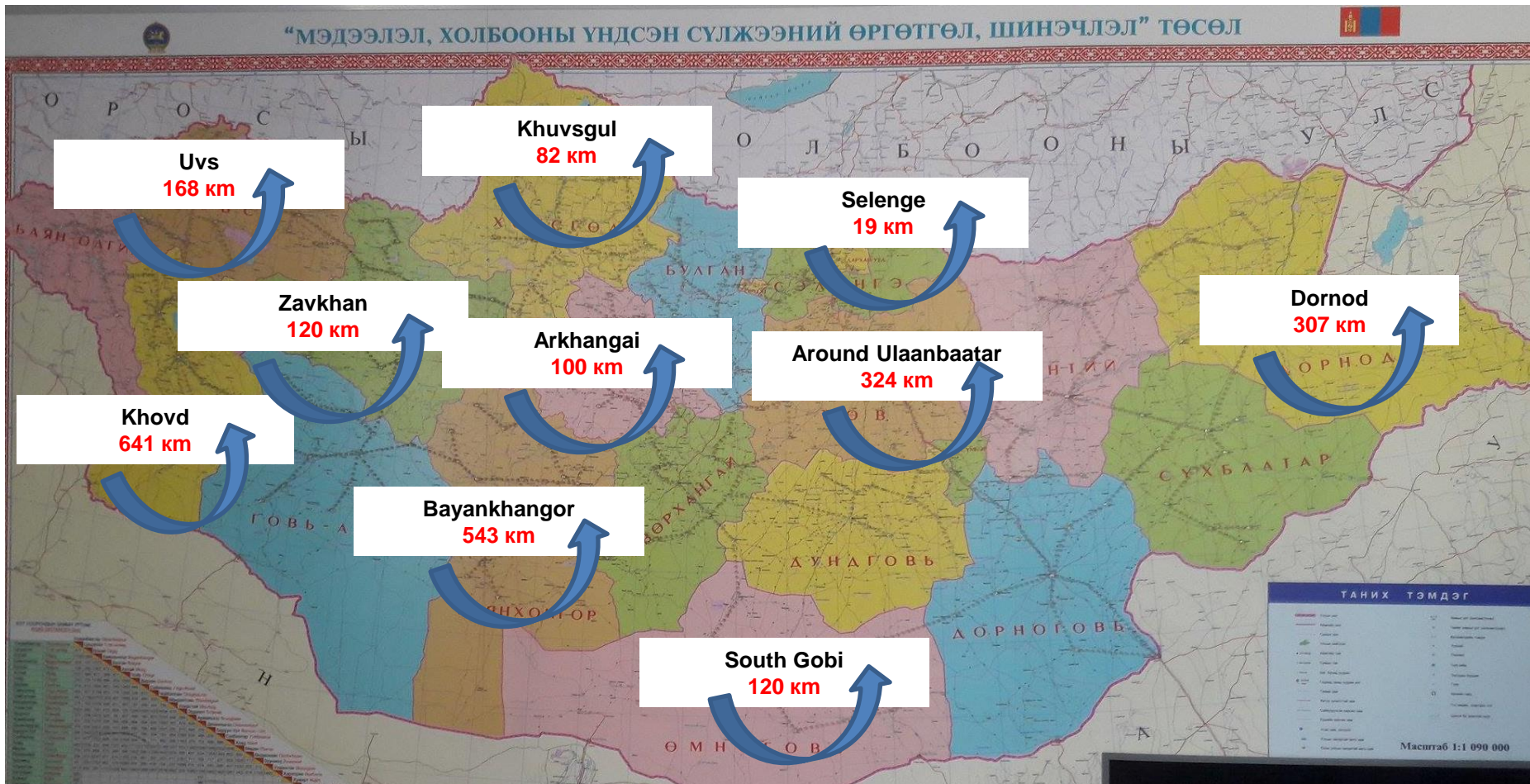
**70 m Tower, Ulaanbaatar  
railway, Selenge Province**





# Completed Optical Fiber Cable Installation, Total Length 2424 km

Project client companies: CITA, MCA-Mongolia, Mobicom, G-Mobile, Unitel, Skytel







# Optical Cable Installation Work Experiences







# Completed Projects in – Energy/Renewable energy works



**Monnaran 13MW Solar Power Plant Construction**



# Monnaran 13MW Solar Power Plant Construction



35kV Substation



PV Array



Lifting mechanism



SMA inverter





# 80kW Solar Power Station in Zurkh Bag, Galt Soum, Khuvsgul Province



PV Array



2V\*1500A Battery



DC voltage shield



# Solar + DG Hybrid Telecom Sites (Remote Monitoring System)







# 35kW, 1000KVA Power Station and 10/0.4kV line in Ikh Uul Soum, Khuvsgul Province



10/0.4kV transmission line



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