

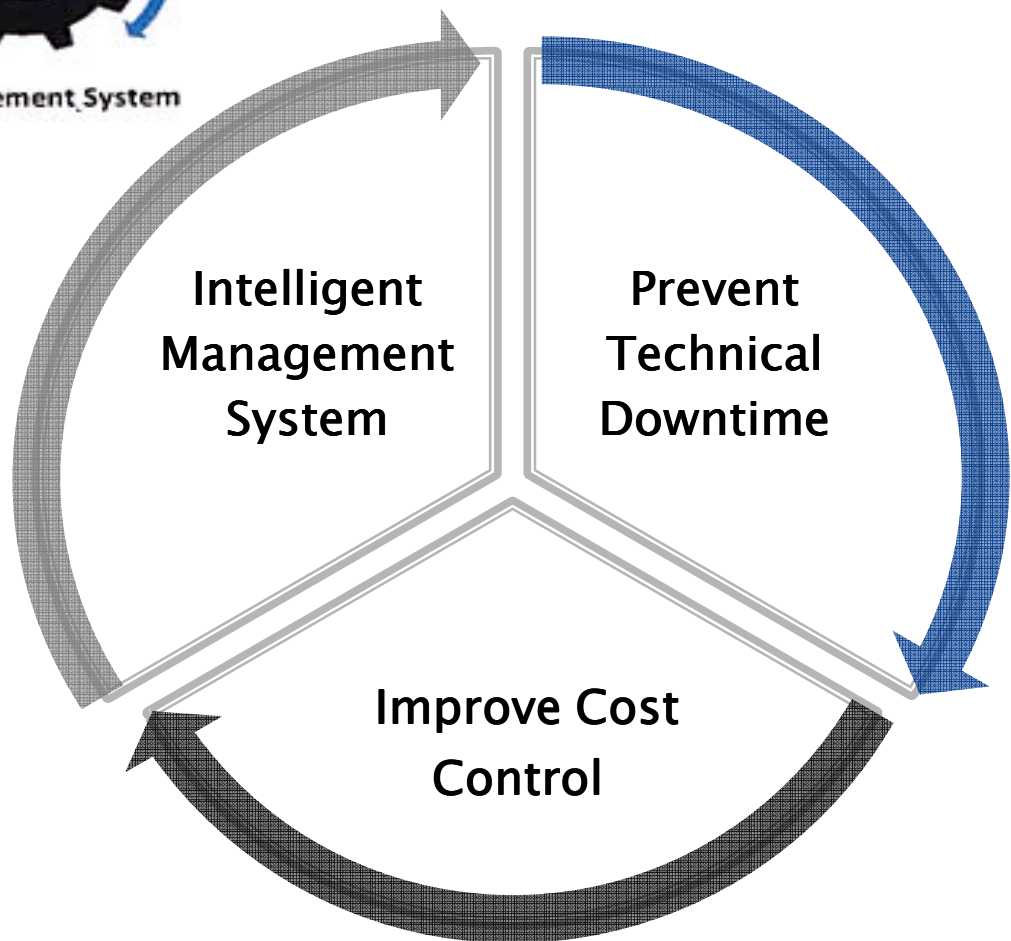
# MastMinder

## Smart Monitoring Solutions

Remote  
Control



Intelligent Management System

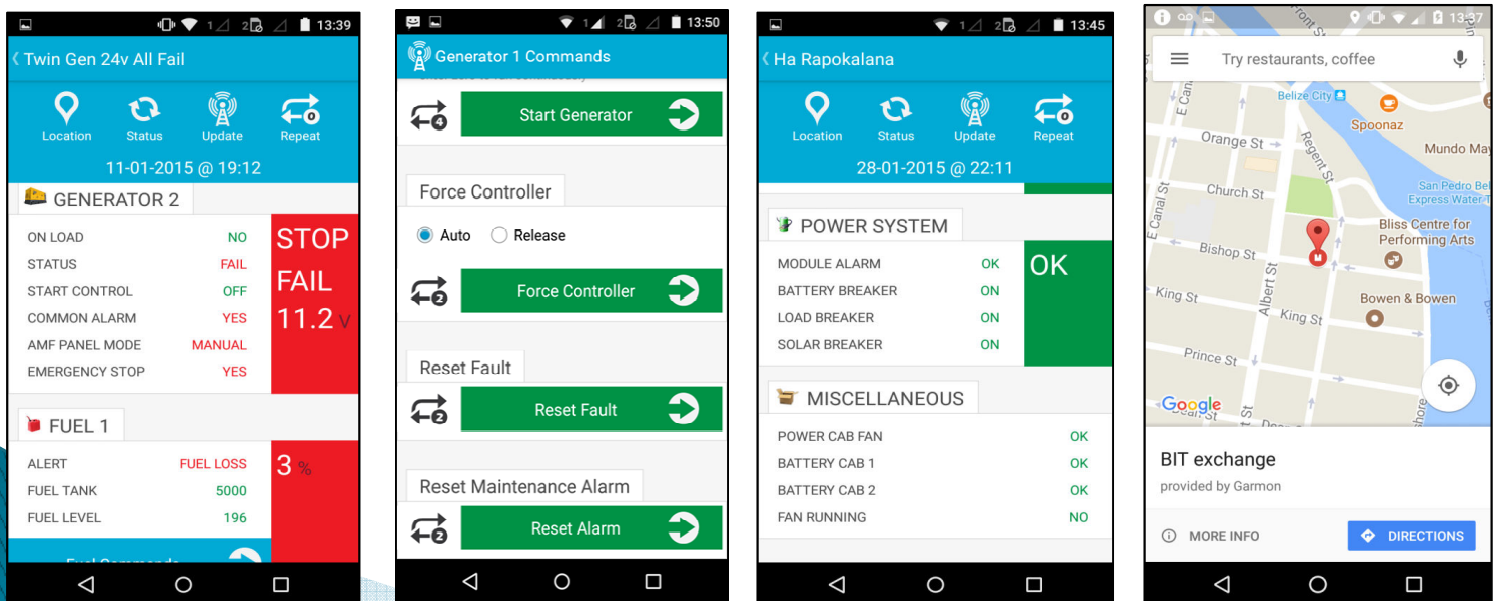


# Solutions to OPEX Reduction

- ▶ Preventive and corrective maintenance optimized, reducing the occurrences of service interruptions
- ▶ Fewer in-person visits necessary to the sites thanks to our Smartphone app
- ▶ Longer equipment life thanks to better management of the equipment at site
- ▶ Theft prevention thanks to sudden loss or disconnection alerts, as well as optional security devices
- ▶ Cost control and Billing verification (utility, fuel delivery, subcontractors maintenance KPIs ...)

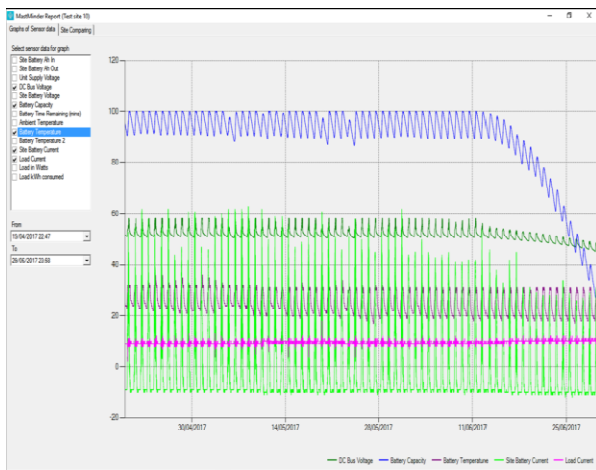
## Intelligent Management System

- ▶ Real time Remote Monitoring and Control, to be aware of any incident happening, what is the fault and where
- ▶ Alerts sent by SMS, Email, Android App
- ▶ Convenient centralised interface to monitor all your strategic operations
- ▶ Customer specific tailored engineered solution able to communicate with most systems via various protocols and many parameters monitored with sensors



# Reports

- ▶ Technical and Financial Reports can be configured per need in the form of Graphs, Tables, in Word, XL and PDF
- ▶ Reports and comparison tables can be produced and emailed automatically or manually
- ▶ Reports can be issued per period/sites/ events



Demo Network Generator Fuel Levels 19 Jul 2017 22:58

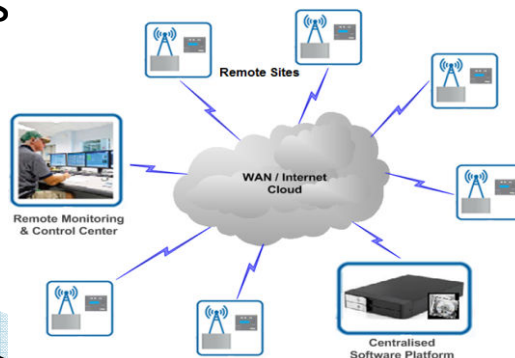
Selected Zone(s): ALL  
Selected Site(s) within the Zone(s): ALL

Site name	Zone	Day tank (US Gallons)			Bulk tank (US Gallons)		
		Capacity	Current reading	Percent full	Capacity	Current reading	Percent full
SMPCSM	Bethropen City	No Day tank	-	-	No Bulk tank	-	-
BMP Radio Hut	Bethropen City	No Day tank	-	-	No Bulk tank	-	-
Independence exchange	Stann Creek	66	52	79	965	No sensor	-
Cahal Pech exchange	Cayo	35	31	89	No Bulk tank	-	-
Blackman Eddy	Cayo	47	43	91	No Bulk tank	-	-
San Joaquin Exchange	Corozal	48	45	94	No Bulk tank	-	-
San Narciso exchange	Corozal	157	151	96	No Bulk tank	-	-
San Pablo exchange	Corozal	14	14	100	No Bulk tank	-	-
Spanish Lookout exchange	Cayo	42	42	100	No Bulk tank	-	-
Orange Walk exchange	Orange Walk	260	212	82	975	348	36
Hatfield Exchange	Belize	40	No sensor	-	325	134	41
BMP/CMAA	Bethropen City	80	65	81	1950	872	45
BMP/OMS	Bethropen City	90	73	81	1950	918	47
BKP exchange	Belize City	160	137	86	1500	718	48
ETC exchange	Belize City	270	193	71	2625	1480	51
Dangriga exchange	Dangriga	60	47	78	850	503	59
San Pedro South cell site	One of the Islands	65	46	71	608	389	64
San Pedro exchange	One of the Islands	78	70	90	990	688	67
Punta Gorda exchange	Toledo	27	0	0	1020	666	66
Sarteneja exchange	Corozal	27	18	67	332	232	70
Ladyville Exchange	Belize	65	No sensor	-	990	714	72
Seine Blight cell site	Stann Creek	16	No sensor	-	605	441	73

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# How it works

- ▶ Main control unit on site will communicate with the other systems and collect data from sensors
- ▶ All data gathered by the main unit is sent to central server ( NOC)
- ▶ Communication protocols used: SNMP, RS232, RS485, 1-wire , GPRS, Ethernet, 4-20mA , Voltage, Current, Temperature, Humidity, Fuel level, Dry contact in, Relay outputs



# MastMinder

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