EXERON

THE WORLD'S BEST OFF-GRID TECHNOLOGY From 2 kW up to 65 MW

26 years of R&D = great technology and proven results











DO YOU NEED IT

YOU WILL LOVE TO HAVE EXERON IF YOU DO:

- operate diesel generator powered sites
- pay high fuel costs
- pay high fuel supply costs
- want to reduce diesel generator running hours
- operate off-grid and remote objects
- run diesel generator powered facilities
- pay high generator maintenance costs
- not have access to reliable electricity or electricity at all
- want to reduce OPFX
- want to be independent
- want to have a reliable power system
- want to have maintenance-free power system
- want to become green
- want to be different
- want to be power independent



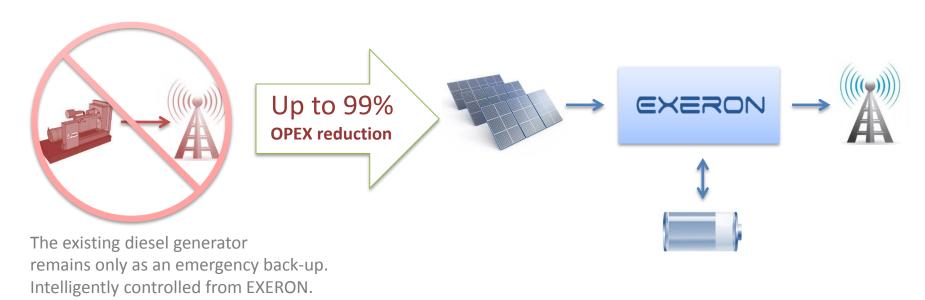


THE OPEX KILLER

IPS presents the telecom OPEX killer: EXERON



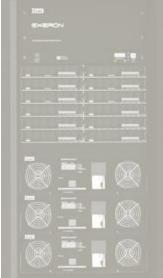
The world's first and most innovative modular system for off-grid power supply with energy storage.

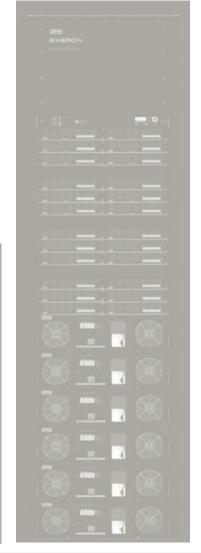


UNIQUE

- ✓ Proven results
- ✓ Fantastic OPEX reduction
- ✓ Unique IPS fuel save mechanism
- ✓ Extreme PV MPPT controller efficiency
- ✓ Extraordinary battery management system
- ✓ Advanced modularity and redundant structure









COMPLETE

- ✓ Project design
- ✓ Turn-key system
- ✓ Unlimited power
- ✓ Military approved



- ✓ IPS rectifiers
- ✓ IPS inverters
- ✓ IPS solar controllers
- ✓ IPS outdoor cabinets





EXAMPLE 1.5 kW TELECOM LOAD

TELECOM SITE EXAMPLE



Solar Hybrid System



Battery



Diesel generator

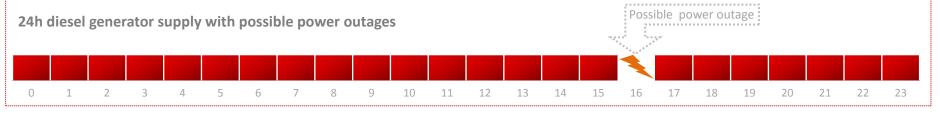


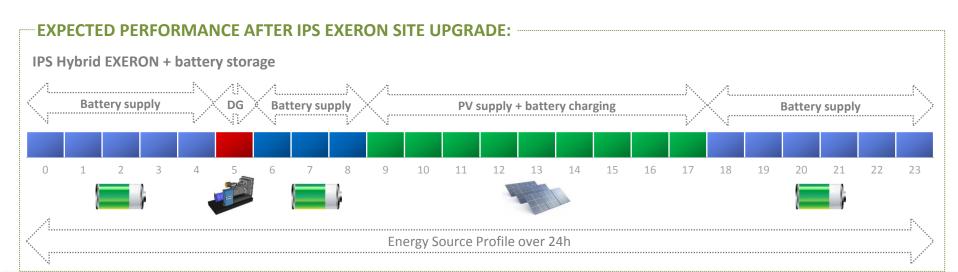
Power outage

AC source		Energy consumption per 24h in kWh	PV power	Battery capacity	Usable battery capacity	Hybrid mode duration PV + Battery	Pure battery back-up time
DG	1.5 kW	36 kWh	6 kWp	760 Ah	29.2 kWh	24 h	~20h



BEFORE IPS EXERON SITE UPGRADE:







RESULTS

Monthly performance report





Partly sunny day



Cloudy day



Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Weekly average
		4	2				Mostly sunny
24.08.2015 DG :: 0h	25.08.2015 DG :: 0h	26.08.2015 DG :: 0h	27.08.2015 DG :: 0h	28.08.2015 DG :: 0h	29.08.2015 DG :: 0h	30.08.2015 DG :: 0h	DG :: 0h
		4			-	4	Partly cloudy
31.08.2015 DG :: 2.5h	01.09.2015 DG :: 0h	02.09.2015 DG :: 0h	03.09.2015 DG :: 0h	04.09.2015 DG :: 2.7h	05.09.2015 DG :: 0h	06.09.2015 DG :: 0h	DG :: 5.2h
4	,,,	2	4	,,,	4		Mostly cloudy and rainy
07.09.2015 DG :: 2.1h	08.09.2015 DG :: 0h	09.09.2015 DG :: 2h	10.09.2015 DG :: 0h	11.09.2015 DG :: 2.2h	12.09.2015 DG :: 2h	13.09.2015 DG :: 2h	DG :: 10.3h
		2	4	**	4	4	Partly sunny
14.09.2015 DG :: 0h	15.09.2015 DG :: 0h	16.09.2015 DG :: 0h	17.09.2015 DG :: 0h	18.09.2015 DG :: 0h	19.09.2015 DG :: 2h	20.09.2015 DG :: 0h	DG :: 2h



RESULTS

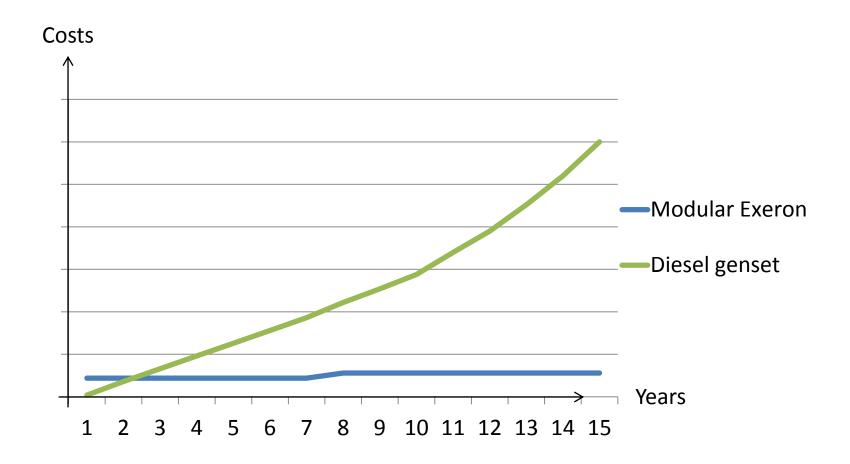
MONTHLY STATISTICS							
	Weather		<u>Diesel Generator</u>				
Sunny days	Cloudy days	Rainy days	Running hours	Fuel consumption			
15	11	2	17.5 h	66 l			

MONTHLY REPORT				
	EXERON, AFTER	<u>DG, BEFORE</u>		
Weather conditions	Mostly sunny	Mostly sunny		
Hybrid mode operation (PV + Battery)	654.5	0		
Diesel generator running hours	17.5 h	672 h		
Battery cycles	29	0		
Fuel consumption	66 I	1344 l		

MONTHLY SAVINGS					
	DG running hours saving	Fuel saving	Total OPEX saving	AWARD	
	97.4 %	95.1 %	96.3 %	WINNER	



LONG TERM SAVINGS





IPS KEY CLIENT'S REFERENCES

TELECOMMUNICATIONS



Telecom Austria Group



Deutsche Telecom



Telenor



China Telecom



Bulgarian Telecommunication Company



Telecom Serbia



Max Telecom



Neterra Telecommunications







Airspan Networks





Bynet Data Communications





Indra Systems



Nokia Siemens Networks



IPS INTERNATIONAL PRESENCE

