Solar Hybrid System	
System Size	6.2 KWp
Solar Panels	310 Watt Polycrystalline 10 Years Warranty
Solar Inverter	5 KW Hybrid 02 Years Warranty
Solar Batteries	12 V 260 AH GEL, Maintenance Free 01 Year Warranty
Special Features	Remote Monitoring Complete Installation Maintenance Contract
Total Price	PKR 1,195,000
Pay Back	2.5 – 2.9 Years
Savings in 10 Years	~Rs 6.25 Million

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ICEBERG INDUSTRIES

SOLAR PANELS
- 25 years Power Output Guarantee
- 10-12 Years Warranty

SOLAR BATTERIES
- 01 Year Warranty
- 3-5 Years Designed Life
- Maintenance Free Batteries

SOLAR INVERTERS
- 10+ Years Designed Life
- 2-5 Years Warranty
- Built-in MPPT Charge Controller

BENEFITS
- No Operational Cost
- No Maintenance Cost
- Long Lasting and Reliable Power Resource
- No Pollution
- Very Safe System
- No Noise
- No Fuel
- Shielding against increase in POWER TARIFFS
- Protection against LOAD SHEDDING
- Optimizing the use of Diesel GENERATOR
- Free Generation after 3-5 Years

ICEBERG INDUSTRIES

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HYBRID SYSTEMS	5.6 KW	10 KW
Back Up Hours	02	02
Total Price (Rs)	835,000	1,470,000
Pay Back (Year)		
Grid	~5.5	~5.5
Diesel	<3	<3
Yearly Savings (Rs/Year)		
Grid	225,000	395,000
Diesel	500,000	850,000
Cumulative Savings 05 Years		
Grid	1,100,000	2,000,000
Diesel	2,300,000	4,100,000

ON GRID SYSTEMS	5.6 KW	10 KW
Back Up Hours	02	02
Total Price (Rs)	645,000	1,270,000
Pay Back (Year)		
Grid	~3.9	~3.7
Diesel	<2	<2
Yearly Savings (Rs/Year)		
Grid	~250,000	~550,000
Diesel	~550,000	~1,000,000
Cumulative Savings 05 Years		
Grid	1,137,000	2,554,000
Diesel	2,418,000	4,836,000

OUR PARTNERS

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- 10-12 Years Warranty

SOLAR BATTERIES
- 01 Year Warranty
- 3-5 Years Designed Life
- Maintenance Free Batteries

SOLAR INVERTERS
- 10+ Years Designed Life
- 2-5 Years Warranty
- Built-in MPPT Charge Controller

Hospital Soultions

System Size (KW)	5	10
Back Up Hours	2	2
Total Price Rs.	835,000	1,470,000
Payback Years		
Grid	~5.5	~5.5
Diesel	<3	<3
Yearly Saving		
Grid	~225,000	~400,000
Diesel	~475,000	~850,000
Savings in 5 years		
Grid	~1,075,000	1,910,000
Diesel	~2,285,000	4,062,000

BENEFITS
- Shielding against increase in POWER TARIFFS
- Protection against LOAD SHEDDING
- Optimizing the use of Diesel GENERATOR
- No Operational Cost
- No Maintenance Cost
- Long Lasting and Reliable Power Resource
- No Pollution
- Very Safe System
- No Noise
- No Fuel
- Free Generation after 3-5 Years

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	Premium	Standard
System size (kW)	20	20
Panel	LG-Korea	JA Solar-China
Inverter	Kaco-Germany	Surpass-China
Turn Key Project Cost	3.5 Million	2.5 Million
Payback Grid	6	5
Yearly Saving (Grid)	600,000	500,000

Solar Panels
- 25 years Power Output Guaranteed
- 10 years Replacement Warranty

Solar Inverters
- 15 years Power Output Guaranteed
- 2 years Replacement Warranty
- Efficiency Exceeding 95%

BENEFITS
- Shielding against increase in POWER TARIFFS
- Protection against LOAD SHEDDING
- Optimizing the use of Diesel Generator
- One year free maintenance
- No operational cost - no fuel, no spares, no consumables!
- No carbon dioxide emission, no pollution!
- Very Safe System
- No Noise

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Warranty

Solar Panels
10-12 years solar panel waranty
25 years power output guarenteed

Solar Inverter
5 years solar inverter warranty

Solar Battery
01 year warranty
03-05 years designed life

SOLAR DC SOLUTION

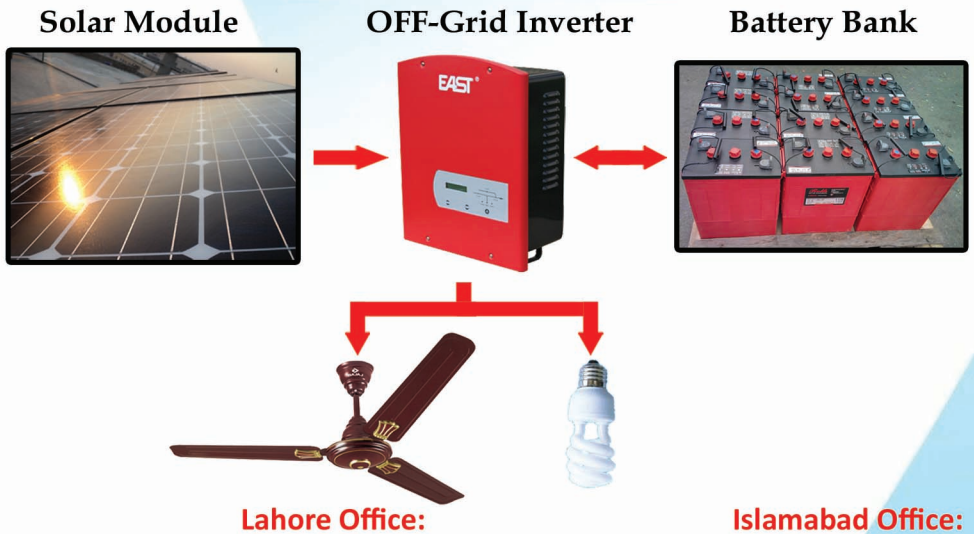
Solar Panels	Charge Controller	Battery Bank AGM Deep Cycle	Appliances Fans	LED's	Running Hours	Price Rs.
1 x 150 watt	1 x 12V/20A	1 x 100 AH	1	2	12	60,000/-
1 x 310 watt	1 x 12V/30A	1 x 100 AH	2	4	12	79,000/-

Appliances are included in this solution

STAND ALONE SOLUTION

System Size	Solar Panels	Battery Bank AGM Deep Cycle	Appliances Fans	Energy Savers	Price Rs.	Savings from Grid Annual	5 Years
1KW	310 watt	100 AH	6	6	186,000/-	20,500/-	125,000/-
3KW	310 watt	100 AH	15	16	400,000/-	51,000/-	311,000/-
5KW	310 watt	150 AH	24	30	610,000/-	81,500/-	497,000/-

STAND ALONE SOLUTION



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ICEBERG INDUSTRIES

SOLAR SOLUTION FOR SOCIAL WELFARE ORGANIZATION

A SUSTAINED EFFORT FOR A SUSTAINABLE FUTURE

Save Money and Invest for future of children

Economical - The upfronts costs are high but in the long run great savings due to inflation rate

Free Generation - After initial investment, all the electricity generate is free. Requires no fuel except the free sunlifght energy resource

Cheaper with time - Extremely fast decreasing totals costs of installation and maintenance

Benefits

- Provides a clean source of energy with zero carbon emissions
- Shielding against increase in power tarrifs
- Protection against power cuts
- Optimising the use of diesel genset
- Potential for carbon credits
- Long lasting and reliable power source
- No operational cost
- No maintenance cost
- No pollution
- Very safe system
- No noise

Our Partners: SUNPOWER LG Life's Good JA SOLAR 晶 澳 太 阳 能 KACO new energy. STUDER SSE BSB

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BENEFITS

- Shielding against increase in POWER TARIFFS
- Protection against LOAD SHEDDING
- Optimizing the use of Diesel GENERATOR
- No Operational Cost
- No Maintenance Cost
- Long Lasting and Reliable Power Resource
- No Pollution
- Very Safe System
- No Noise
- No Fuel
- Free Generation after 3-5 Years

SOLAR PANELS

- 25+ years Power Output Guaranteed
- 10 years Warranty

SOLAR INVERTERS

- 10+ years Designed Life
- 2-5 years Warranty
- Built in MPPT Charge Controller

SOLAR BATTERIES

- One Year Warranty
- 3-5 Years Designed Life
- Maintenance Free batteries

System Size	3.1 KW	5.6 KW
Back Up Hours	2	2
Total Price (Rs)	450,000	750,000
Yearly Savings	~80,000	~155,000
Payback (years)		
Grid	~5.5	~5
Diesel	~3.5	~3
Savings in 10 Years		
Grid	1.2 Million	2.2 Million
Diesel	2.4 Million	5.7 Million

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SOLAR PANELS
- 25 years Power Output Guaranteed
- 10-12 Years Warranty

SOLAR BATTERIES
- 01 Year Warranty
- 3-5 Years Designed Life
- Maintenance Free

SOLAR INVERTERS
- 10+ Years Designed Life
- 2-5 Years Warranty
- Built-in MPPT Charge Controller

Solar System	For 03 Dispensers
Area Required (sq.ft)	1400-1500
System Size (KW)	5.6
Number of Panels	18
Back Up Hours	4
Total Price	1.1 Million
Payback (Grid) Payback (Diesel)	5 years 3.5 years
Yearly Saving (Grid) Yearly saving (Diesel)	~175,000 ~205,000
Savings in 10 Years(G) Savings in 10 Years(D)	3.1 Million 4 Million

BENEFITS
- Shielding against increase in POWER TARIFFS
- Protection against LOAD SHEDDING
- Optimizing the use of Diesel GENERATOR
- No Operational Cost
- No Maintenance Cost
- Long Lasting and Reliable Power Resource
- No Pollution
- Very Safe System
- No Noise
- No Fuel
- Free Generation after 3-5 Years

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Solar PV System for Educational Institutes

System Size (Kw)	3.0	5.0
Area Required (sq.ft)	720	1200
Number of Panels	10	16
Backup Hours	2	2
Turn Key Project Cost (Rs)	450,000	650,000
Payback (Years)		
a) Grid	5	5
b) Diesel	3	3
Savings in 10 Years		
a) Grid	~8 Million	~12 Million
b) Diesel	~15 Million	~20 Million

High Quality at Low Prices

BENEFITS

- Shielding against increase in POWER TARIFFS
- Protection against LOAD SHEDDING
- Optimizing the use of Diesel Generator
- One year free maintenance
- No operational cost - no fuel, no spares, no consumables!
- No carbon dioxide emission, no pollution!
- Very Safe System
- No Noise !

Solar Panels

- 25 years Power Output Guaranteed
- 10 years Replacement Warranty

Solar Inverters

- 15 years Power Output Guaranteed
- 2 years Replacement Warranty

Solar Batteries

- One Year Replacement Warranty
- 3-5 Years Designed Life
- Maintenance free batteries

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ICEBERG INDUSTRIES

We Create the Future of LIGHTING

Solar LED Lighting Solution - An Excellent Replacement for Halogen and Sodium Street Lights

LED Street Lighting Can Generate Energy Savings As High As 80%

Advantages

LED

- Best quality LED's for longer life (50,000 hrs.)
- Low Power Consumptions
- IP65 Weather Proof
- Automatic Dusk to Dawn Operation
- Substantial Power Savings
- Low Maintenance
- Environmental Friendly
- Distribution of Light in Sharply Defined Angle

Solar

- Optimizing the Use of Grid
- Protection against Load Shedding
- No Operational Cost
- No Maintenance Cost
- Long Lasting and Reliable Power Resource
- No Pollution
- Shielding against increase in POWER TARIFFS
- No Fuel

Energy Savings means Economic Benefits

Product Category			High Pressure Sodium Street Lights	LED Street Lights	High Pressure Sodium Street Lights	LED Street Lights	High Pressure Sodium Street Lights	LED Street Lights
Wattage (W)			150	60	200	80	250	100
Life-span (Hrs)			5000	>40000	5000	>40000	5000	>40000
Energy	12Hrs/ day	Power Savings Yearly (kwh)	~400		~525		~650	
		Cost Savings Yearly (PKR)	7,000-7,500		9,250-9,500		11,750-12,000	

Solar Power LED Street Light

LED	60W	80W	100W
Quantity	1	1	1
Solar Panel	150W		
Quantity	1	2	2
Battery	12V/150AH		12V/200AH
Quantity	1	1	1
Working Hours	12		
Charge Controller	12V/20A	12V/30A	
Height of Pole	6m- 10m		
Pole-Pole Distance	15m-18m		
Price (PKR)	**85,000**	**105,000**	**120,000**
Annual Savings(PKR)	11,500-12,000	17,500-18,000	20,000-20,500
Commulative savings (10 Years) (PKR)	~130,000	~200,000	~225,000

Warranty:

Solar Battery
01 Year Warranty
3-5 Years Designed Life

Solar Panels
25 years Power Output Guaranteed
10-12 Years Warranty

LED Street Light
03 Years Warranty

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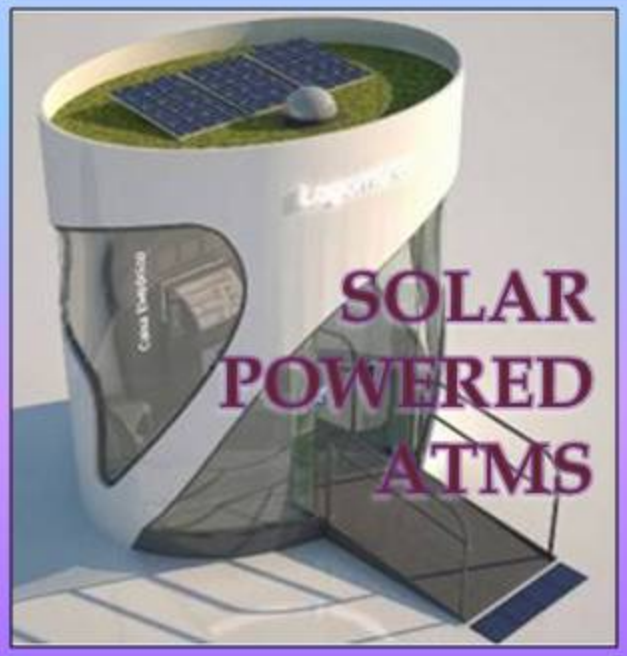

SOLAR INVERTERS
- 10+ years Designed Life
- 2-5 years Warranty
- Built in MPPT Charge Controller

SOLAR PANELS
- 25 years Power Output Guaranteed
- 10 years Warranty
- Mono/Poly Crystalline

SOLAR DRY BATTERIES
- 01 Year Warranty
- 3-5 Years Designed Life
- Maintenance Free

System Size	2.4 KW
Area Required(sq.ft)	350-400
Back Up Hours	3
Payback (years)	
a) Grid	4.5 - 5
b) Diesel	2 - 3
Annual Savings	
a) Grid	75,000
b) Diesel	150,000
Savings in 10 Years	
a) Grid	1 Million
b) Diesel	2 Million

BENEFITS
- Shielding against increase in POWER TARIFFS
- Protection against LOAD SHEDDING
- Optimizing the use of Diesel GENERATOR
- No Operational Cost
- No Maintenance Cost
- Long Lasting and Reliable Power Resource
- No Pollution
- Very Safe System
- No Noise
- No Fuel
- Free Generation after 3-5 Years

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	10KW		20KW	
Option	Premium	Standard	Premium	Standard
Panel	LG - Korea	JA Solar - China	LG - Korea	JA Solar - China
Inverter	Kaco - Germany	Surpass - China	Kaco - Germany	Surpass - China
Price (PKR)	1.85 Million	1.35 Million	3.5 Million	2.55 Million
Yearly Saving	~ Rs 300,000	~ Rs 250,000	~Rs 600,000	~Rs 500,000
Saving in 10 Years (10% inflation)	~Rs 5 Million	~Rs 4 Million	~Rs 10 Million	~ Rs 8 Million
Payback (Grid)	4 Years	5 Years	6 Years	5 Years

Benefits:

- No Operational Cost
- No Maintenance Cost
- Long Lasting, Reliable Power Resource
- Very safe
- No Noise
- Free generation after 3-6 Years
- No Fuel
- No Pollution

Solar Panels:
25 years Power Output Guaranteed
10 years Warranty

Solar Inverters:
15 years Power output Guaranteed
2-5 years warranty

Solar Powered Super/Hyper Market

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