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OVERVIEW

Innotech Energy Engineering is a leading energy solution provider with strong focus on innovation and sustainability. Established in 2022, we have consequently delivered high quality LPG reticulated system and recently we introduced with smart gas metering system in Bangladesh. Our customer can pay the gas bill through the innoGas App and it will operate the concept of "Pay as You Go". Our mission is to empower customer with safe, reliable, and smart gas usage facility development while driving growth through our long experience in this sector.

We shall follow the following standards and Bangladesh Government legislation for the implementation of your project.

- Ministry of Power, Energy and Mineral Resources Bangladesh, LP Gas
 Operational Licensing Guidelines Gazette January 29, 2016.
- Bangladesh LP Gas Rules 2004
- Bangladesh LP Gas Rules 2017
- LP Gas pricing Mechanism developed by Bangladesh Energy Regulatory Commission (BERC).
- NFPA58 (Liquefied Petroleum Gas Code)
- Tank Design code EN 13445

Mission Statement

Innotech Energy Engineering provides engineered solutions for LPG, SNG, and solar energy, helping clients develop sustainable projects with positive impacts. We address design, process, and operational challenges as a single-source provider, offering engineering, fabrication, field services, and O&M. Our expert teams bring in-depth knowledge to meet customer needs effectively.



Management



Engr. Md. Kamal Hossaine

FIEB -10023

CEO

Innotech Energy Engineering

- B. Sc. in Mechanical Engineering from Khulna University of Engineering and Technology.
- MBA major in Marketing. 25 years of Experience Specialized in LP Gas and Renewable Energy



Engr. Golam Mowla

Chief Consultant

Innotech Energy Engineering

- Graduating in "Mechanical Engineering from Bangladesh University of Engineering and Technology (BUET)".
- 34 Years of Experience, Specialized in Energy Efficiency.



Dr. Engr. Md. Mahmudur Rahman Manna

PEng., CEAI, CSP, FIEB

Sr. Consultant

Innotech Energy Engineering

 Senior Professional Engineer with 26 years of experience in engineering, project management, energy systems, fire safety, and international certifications.



Engr. Md. Khaled Saifullah

Director Technical

Innotech Energy Engineering

- B.Sc. in Electrical and Electronic Engineer (EEE) from the Islamic University of Technology (IUT)
- 18 Years of Experience, Specialized in Rooftop Solar power plant





Saimah Kamal Promee

Director – International Trade

Innotech Energy Engineering

 Under Graduate Student of EEE, Stoney Brook University, NY, USA

Why Innotech is Best

6 key point make us reliable:

- 1. Inno Gas a franchisee of different LPG operator companies.
- Guaranteed Quality and Accurate Weight: We ensure that every cylinder of LPG delivered meets the highest quality standards and contains the accurate weight, giving you confidence in what you receive.
- 3. Prompt Delivery: Our streamlined logistics ensure quick delivery, so you never have to worry about running out of gas when you need it most.
- 4. Safe Handling and Standard Operations: We adhere to strict safety protocols and standard LPG operating procedures, minimizing risks and ensuring a secure experience for all customers.
- 5. Reliable Supply and Buffer Stock: We maintain a consistent supply of LPG and keep buffer stock to ensure gas availability, even during peak demand.
- 24/7 Customer Support: Our customer service team is available around the clock, ready to assist you with any inquiries or emergencies via on-call support.

Our commitment is to ensure quality, safety, and reliable service.



6 key factors enrich Innotech Energy Engineering in the development of LPG Reticulated system

- 1. Experienced Management Team: Leverage our 25 years of dedicated experience in LPG reticulated system development, backed by a skilled management team that ensures smooth project execution.
- Strict Adherence to Standards: We follow different standards like NFPA -58,
 LPG Rules 2004 and compliance regulations, ensuring that every project meets the highest safety and quality benchmarks.
- 3. Comprehensive Testing and Commissioning: Our process includes standardized testing and commissioning procedures, complete with detailed report sharing to keep you informed at every stage.
- 4. Reliable After-Sales Service: We provide ongoing support even after project completion, ensuring that your system remains efficient and operational.
- 5. High-Quality Equipment: We utilize major equipment sourced from top suppliers in the EU and USA, guaranteeing durability and performance.
- 24/7 Service Support: Our team offers round-the-clock on-call support, ready to address any issues or concerns whenever they arise.
 Our commitment is to ensure quality, reliability, and customer satisfaction.

Solutions

- Assist in supplying LP Gas with competitive prices and share gas price forecast.
- 2. Design different capacity LP Gas Storage (Liquid Off Take and Vapor Off Take) and handling facilities.
- 3. Consultation for the development of a smart township project for the uses of LP Gas, SNG, and smart prepayment metering system.
- 4. Turnkey solution for the effective and cost optimization of energy usage for Industrial, Commercial, and Residential customers.
- 5. Work as an EPC contractor for the development of an LP Gas Import Terminal, Bottling Plant, Satellite LPG filling Plant, and Bulk LPG storage facility.



- 6. Site survey, consultation, design, supply, installation, and commissioning of different capacity solar power plants and solar-powered water pumping systems for irrigation, sident application, Tea Garden, etc
- 7. Commercially feasible water management system sustainable for Rural Development (Concept paper was appreciated by the UNEP DTU, Copenhagen, Denmark).

Project Implementation Process





LPG Reticulated System

LP gas reticulation systems provide a safe and efficient way to supply liquefied petroleum (LP) gas to household appliances such as stoves, water heaters, and ovens. Instead of using multiple cylinders, the system uses a centralized gas source connected through a fixed piping network, ensuring consistent flow and safety.

A typical system includes several key components:

1. Storage (VOT Cylinder or Tank):

The gas is stored in a Vertical Overground Tank (VOT) or bulk tank placed outdoors following safety standards. It serves as the main supply source for the entire system.

2. Regulators and Valves:

Regulators control gas pressure to a safe level for household use, while valves help isolate sections during maintenance or emergencies.

3. Piping Network:

A network of copper or GI pipes distributes gas throughout the house, designed to prevent leaks and maintain steady pressure.

4. Pressure Gauges and Safety Devices:

These monitors and protect the system using gauges, relief valves, and leak detectors to ensure safe operation.

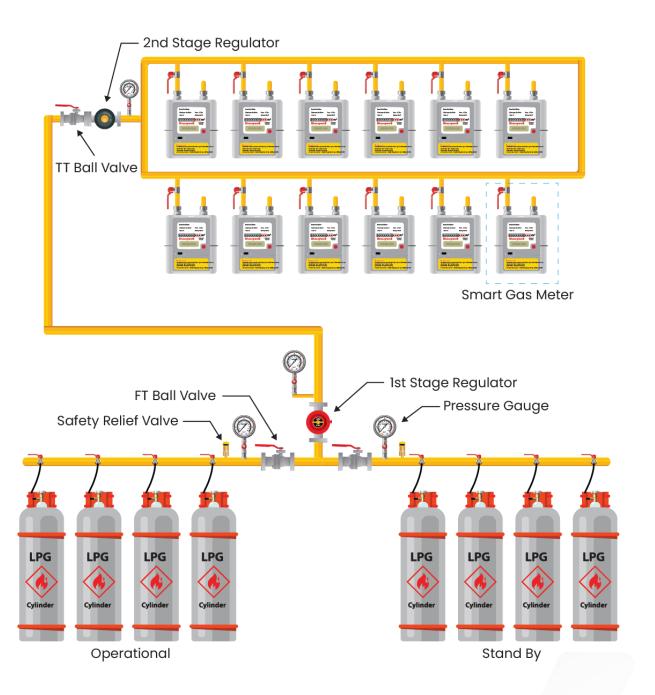
5. User-End Meter (Postpaid or Prepaid):

Each user connection has a meter to record gas consumption, enabling accurate billing and efficient monitoring.

Overall, LP gas reticulation systems offer safety, convenience, and reliable energy supply for residential buildings when designed and maintained according to proper engineering standards.



Structure of our LPG Reticulated System





Major Item for LPG Reticulated System

•	
F	For Riser Pipeline
	1/2" MS pipe 1/2" MS pipe for Riser line to Kitchen Room Connections. The 1/2" MS pipe is made of mild steel with an outer diameter of 21.3 mm (0.84 inches), a wall thickness of 2.77 mm (0.109 inches), and an inner diameter of 15.76 mm (0.620 inches). The pipe complies with ASTM A53 or equivalent standard specifications and is suitable for LP Gas transfer.
	3/4" MS pipe From the Meter Output to Before Kitchen line Riser Pipeline. 3/4" MS pipe is made of mild steel with an outer diameter of 26.7 mm (1.05 inches), a wall thickness of 2.87 mm (0.113 inches), and an inner diameter of 20.96 mm (0.825 inches). The pipe complies with ASTM A53 or equivalent standard specifications and is suitable for LP Gas transfer.
	The welded type MS elbow for 3/4" has a nominal size of 3/4 inch, made of mild steel (MS) with an outer diameter of 26.7 mm (1.05 inches) and a wall thickness of 2.87 mm (0.113 inches). The angle is typically 90° or 45°, and the connection type is welded. For the 1/2" welded MS elbow, the nominal size is 1/2 inch, with an outer diameter of 21.3 mm (0.84 inches) and a wall thickness of 2.77 mm (0.109 inches), also typically at a 90° or 45° angle, with welded connections. These elbows will use to change the direction of piping systems of Riser Pipeline of LP Gas Transfer to the Kitchen Room and Laying.
	MS Angle The 1.5" MS angle, with 1.5" x 1.5" I and a thickness of 3 mm to 5 mm, supports riser lines and pipes under the roof. It provides stability, proper alignment, and keeps the pipes securely elevated for efficient installation.
	C-Channel The 3-inch GI (Galvanized Iron) C-channel is used to support riser lines in vertical piping systems. Dimensions of C - Channel 3" x 1.5" or 3" x 2", with a thickness of 5 mm.









TIG Welding

Welding Process: GTAW (Tungsten inert Gas welding, TIG)
Quality: Visual inspection by the site Engineer
Check: 5% welding shall be tested by the X Ray
and Xray test result shall share with site Engineer.

LPG Reticulated System Materials



1" MS Seamless Pipe

1" MS Seamless Pipe for Cylinder Header. The 1" MS seamless pipe is made of mild steel with an outer diameter of 33.4 mm (1.315 inches), a wall thickness of 3.38 mm (0.133 inches), and an inner diameter of 26.64 mm (1.049 inches). The pipe is manufactured to meet ASTM A106 or equivalent standard specifications and is ideal for LP Gas transfer due to its high strength and leak-resistant seamless construction.



1.5" MS Seamless Pipe

1.5" MS Seamless Pipe for Meter Header. The 1.5" MS seamless pipe is made of mild steel with an outer diameter of 48.3 mm (1.900 inches), a wall thickness of 3.68 mm (0.145 inches), and an inner diameter of 40.94 mm (1.612 inches). The pipe conforms to ASTM A106 or equivalent standard specifications and is well-suited for LP Gas transfer, offering excellent durability, pressure handling, and a seamless structure to minimize leakage risks.



1st Stage Regulator

For reduce the gas pressure from 100 Psi to 10 Psi. We will install this after the Cylinder header.

Brand: Rego COO: USA

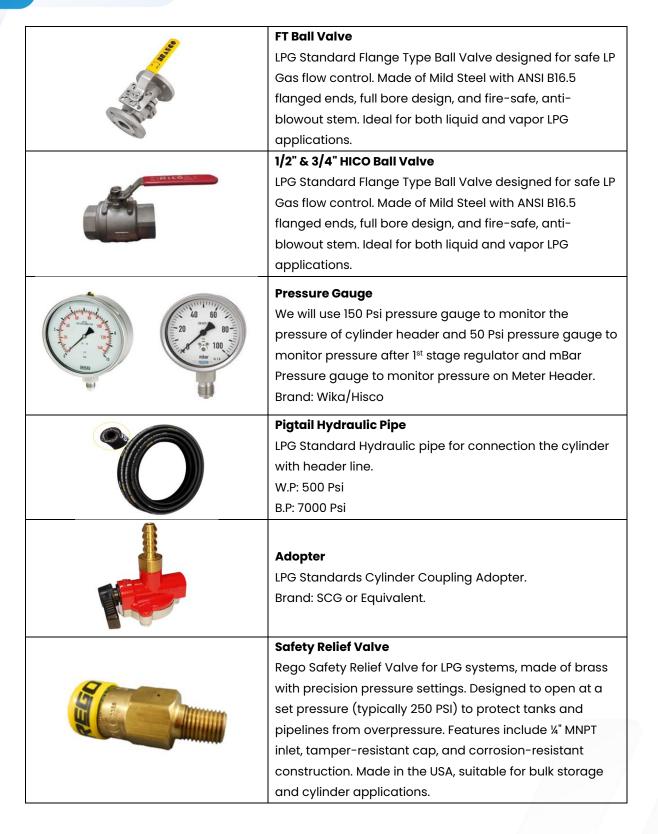


2nd Stage Regulator

For reduce the gas pressure from 10 Psi to 0.5 Psi. it will be installed before meter header.

Brand: Rego COO: USA







innoGas Smart Gas Meter





Innotech was researching a smart solution for residential LP Gas Reticulation system. So, We are going to launch the Smart Pre-paid Gas Meter. Honeywell Smart Gas meter along with smart facility:

- 1. Balance Checking
- 2. Online Payment
- 3. Historical Data

Communication Protocol





innoGas App

07-03-2024

06-03-2024

05-03-2024

04-03-2024

03-03-2024

02-03-2024

01-03-2024

28-02-2024

27-02-2024

26-02-2024

25-02-2024

24-02-2024



innoGas App

You can see your balance and Remaining Gas with innoGas App.



400

600

380

620

550

500

300

680

650

340

760

345

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56,500

56,100

55,720

55,100

54,550

54,050

53,750

53.070

52,420

52,080

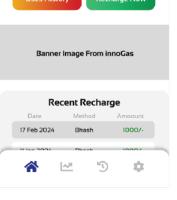
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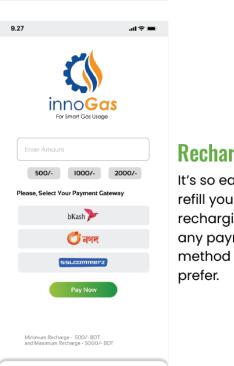
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Uses History

You can see your daily gas consumtion history with App.





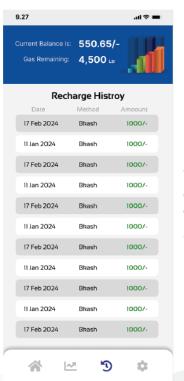
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Recharge

It's so easy to refill you gas by recharging with any payment method that you



Recharge History

You can see your gas recharge history with our innoGas App.



InnoGas Franchisee Partner

Uninterrupted supply of LP Gas, we have franchisee agreement with several LPG Operator companies like Jamuna LPG, Bashundhara LPG & Fresh LPG. So, we can supply LP Gas anytime at anywhere in Bangladesh.







LP Gas price shall be effective from the date of BERC decleared LP Gas pricing Mechanism.

We are coutioneously suppling LP Gas to PWD, Volume Zero, Edison Real Estate, JCX Devolopment, NADA also several Sites.

Project List

Industrial Project List:

No	Project Name	Project Location	Project Tank Capacity
01	Blue Planet Knit Composite	Barotopa, Mawna	Tank: 40 m3 Capacity 20 x2 m3 Vaporizer: 500 KG x 2 Nos
02	Amanat Shah Fabrics Ltd Ongoing	Pachdona, Narsingdi	Tank: 40 m3 Capacity Vaporizer: 400 KG x 2 Nos



Residential Project List:

No	Customer Name	Project Name and Location	Project Capacity (Cylinder)
01	J JCX Development Ltd	JCX Tulip Bashundhara, Dhaka	15 Nos Connection
02	Walton Group	Walton Bari Road no-10, Bashundhara	9 Nos Connection
03	JCX Development Ltd	JCX Platinum 1136/G, Japan Street Road, Bashundhara	27 Nos Connection
04	PWD - CTG	Nasirabad housing, Chittagong	36 Nos Connection
05	PWD - CTG	Nasirabad housing, Chittagong	24 Nos Connection
06	Edison Real State Ltd.	Adelia Road 37, Block-M,Bashundhara	19 Nos Connection
07	Edison Real State Ltd.	Irida Road 9,Block-g,House-3/A,3/B	19 Nos Connection
08	Amin Mohammad Foundation Ltd.	Green Satmahal Plot-206,207,208,Road- wireless,Moghbazar,Dhaka	63 Nos Connection
09	JCX Development Ltd	Bajlur Rahman Manshion RoaD-16, Block-J, Bashundhara	17 Nos Connection
10	JCX Development Ltd	Swiss Park Road-10,House-128,Block-c, Nikrton,Gulshan-1	9 Nos Connection
11	Jishan	Jishan Manshion Road-3,House 8/5,Bank Town,Savar	21 Nos Connection



12	Volume Zero Ltd.	Mahbub Plus House-178, North Avenue Road,Gulshan -2	26 Nos Connection
13	Next Space Ltd.	The Rise Road-4,House-4,Block- k,Baridhara	9 Nos Connection
14	Edison Real Estate	Edison South Serenade Plot-1031-1035,Road-16,Block-I, Bashundhara	48 Nos Connection
15	JCX Development Ltd	Mezan Garden Plot-74,Road-10/4,Block- f,South Banasree,Rampura	17 Nos Connection
16	JCX Development Ltd	JCX Elite Plot-63,65,Block-D,Road- 8,Niketon,Gulshan-1	19 Nos Connection
17	Volume Zero Ltd.	SpactZero Faujian,s Apt Plot-135,Road-10,Sharani Abasan,Khilkhate,Dhaka.	48 Nos Connection
18	PWD	NADA, Road-39,Mirpur- 1,Rupnagar	6 Nos Connection
19	Nextspace Ltd.	Moon Drop, Road-4,House- 5,Block-k, Baridhara	9 Nos Connection
20	PWD - CTG	Noorani, Road-4,Nasirabad Housing-CTG	32 Nos Connection
21	Anondo Bari	Chondrima Model Town,Mohammadpur,Dhaka	17 Nos Connection
22	PWD-CTG	Panchlysh,Pwd,Chittagong	40 Nos Connection
23	PWD-CTG	Panchlysh,Pwd,Chittagong	41 Nos Connection
24	SEL - THE STRUCTURAL ENGINEERS LTD.	91,New Eskaton Road,Romna,Dhaka -100	49 Nos Connection



25	PWD - Dhaka	Officers Quearter Road 4/A, House- 72,Dhanmondi	37 Nos Connection
26	Bay Developments Ltd.	Bay Bellevue North Avenue,Gulshan- 2,Dhaka-1212	26 Nos Connection
27	PWD-Azimpur	Officiars Quarter, Azimpur	65 Nos Connection
28	Rans Real Estate Ltd.	Kamal Tower Motijheel	37 Nos Connection
29	Volume Zero Ltd.	Hasi Project Road-4, House-135, Block-A, Banani	12 Nos Connection
30	Volume Zero Ltd.	Kafil Manor Road-42, House - 31, Gulshan-2	26 Nos Connection
31	New Vision Ltd.	37, Pioneer Road,Kakrail,Dhaka	44 Nos Connection
32	Krishna Nibas Ltd.	Khoratipara, Sylhet Sadar	40 Nos Connection
33	Bosila Model City	Bosila, Mohammadpur, Dhaka	34 Nos Meter Connection
34	Azal Group	House: 34, Block : L Bashundhara Residential Area	Cooking Facility for 1200 person
35	National Academy for Development Administration, Dhaka.	NADA, Road: 40 , Rupnagar, Mirpur, Dhaka.	Cooking Facility for 850 person
36	PWD – Mirpur	Paikpara Porject	240 Nos Smart Metering with Riser Pipeline



Our Products



LPG Storage Tank

LP Gas Storage Tank (Design Code: ASME Section VIII , Division 2 or EN 13445)

Country of Origin: Spain , Turkeya , India & China.



SNG System

SNG System for LPG System.

Brand: Gurbong Hanjin, Pegoraro, and Alternate Energy Systems.

Made in South Korea, Italy, and the USA).



LPG Vaporizer

Water bath electric type, Hot Water Type, and Electric Type,

Brand: Gurbong Hanjin & Pegoraro

Country of Origin: South Korea and Italy





PR System

Pressure Regulating System and Pressure Regulator.

Brand: Rego, Gurbong Hanjin, and Fisher.

Country of Origin: Korea, Turkey & USA



Valve, Fittings & Accessories

300/150 Class valve, fittings, and accessories for Residential and Industries.

Made in South Korea and Europe.



Our Special Clients



































Gallery





















INNOSOLAR



Mission & Vision

To provide innovative, cost-effective, and environmentally sustainable solar energy solutions that meet the unique energy needs of our clients and contribute to a greener future.



To be a global leader in renewable energy solutions by driving the adoption of solar power through cutting-edge technology, efficient project management, and unparalleled customer service.



Services

We offer comprehensive end-to-end solutions including:



Engineering & Design

Customized solar system designs for residential and industrial tailored to maximize efficiency and space utilization.



Procurement

Sourcing high-quality solar panels, inverters, and related equipment from trusted global suppliers.



Construction &

Installation

Expert installation services ensuring optimal system performance, safety, and durability.



Operation &

Maintenance

Full-service maintenance and performance monitoring for long-term reliability and energy savings.



Energy Storage Solutions

Integration of battery storage systems to enhance energy security and reduce peak demand charges.



Our Strengths

Sustainability Focus

At Innotech Energy Engineering, we prioritize reducing carbon footprints and promoting the use of renewable energy sources to combat climate change.

Turnkey Solutions

From concept to commissioning, we handle every aspect of the project, allowing our clients to focus on their core business while enjoying the benefits of solar energy.

Expertise in Solar Technology

Our team of engineers and solar experts bring years of experience in designing and installing rooftop solar power systems.

Quality Assurance

We follow international standards and best practices to ensure every project meets the highest levels of quality and safety.

Certifications and Compliance

Our projects are designed and executed in compliance with global standards, including:

- IEC Standards for Solar Equipment
- ISO 9001 for Quality Management
- NFPA 70 (NEC) for Electrical Installations



Products

We use best quality standers products from best companies who are making sustainable earth from the many years.















Solar Inverters

- · One Grid Inverter
- · Off Grid Inverter
- Hybrid Inverter









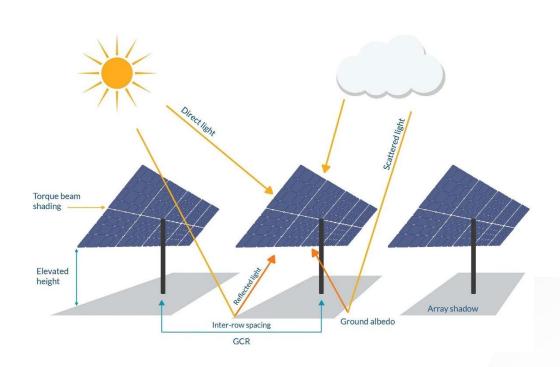
PV Module





N Type PV Module

Bifacial PV Module





Storage System

KuBank

C&I Energy Storage System S-247-2h-IEC (247 kWh)





Stable power supply

- · 247 kWh
- · Lithium Iron Phosphate
- \cdot Active balancing BMS, more energy and longer lifespan



Cost-effective

- · Integrated, modular design, adapt to different application scenarios, convenient installation
- · Operational data can be accessed via 5G, LAN, etc. to the cloud
- · Battery pack IP67 seal grade avoids dust



Safety and reliable

- · Multi-stage thermal management technology effectively prevents battery heat spread
- · Multi-level fire detection monitors early thermalrunaway of cells

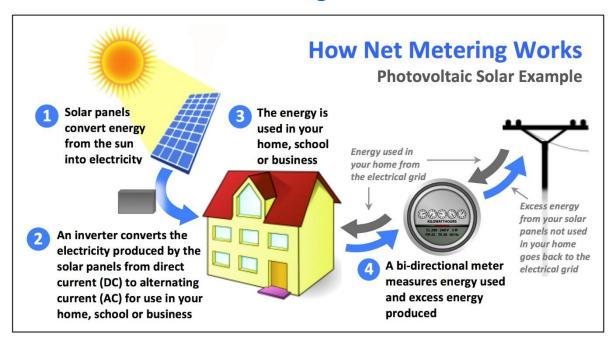
Monitoring System with Weather Station

solar monitoring system tracks performance of solar power installations, providing real-time data on energy production, system efficiency, and potential issues. It typically includes sensors and software to monitor parameters like solar output, battery panel status, and environmental conditions. This data helps optimize energy usage, detect faults, and ensure efficient operation of the solar power system.





Net Metering Facilities



Project List

s/L	Customer/ Organization Name	Customer Address/ Location	Project Type	Capacity	Status
1	Carnal House	Road: 29, Block-L, Bashundha ra, Dhaka	On-grid roof-top Solar system	16.5 KWp	In Operation
2	Summit Communicati on	Different zone All over the Banglad esh	Off-grid roof- top Solar system	1KWp eachsite (Total 25x1= 25KWp)	In Operation
3	Asst. Engr (IC),Lama PaurashavaL ama, Bandarban	Lama, Bandarba n Hill District, Bandarba n – 4640, Bangladesh.	Solar Street light system	142 Nos Solar Streetlight	In Operation
4	Superior	INMAS, BAEC, Rangpur Site	7 KWp Off-	7 KWp Off-	In Operation



	Flootromo	I	Crid Color	Crid	
	Electrome chanical Services		Grid Solar System	Grid Solar System	
5	Superior Electrom chanic al Services	INMAS, BAEC, Chittagong Site	6 KWp Off- Grid Solar System	6 KWp Off-Grid Solar System	In Operation
6	Superior Electrome chanical Services	INMAS, BAEC, Dinajpur Site	6 KWp Off- Grid Solar System	6 KWp Off-Grid Solar System	In Operation
7	Pleiad s Engin eering Limitd	INMAS, BAEC, Khulna Site	6 KWp Off- Grid Solar System	6 KWp Off-Grid Solar System	In Operation
8	Crossworld Engin eering Limite d	In different site	Solar off-grid system	12KWp	In Operation
9	Pleiades Engineering Ltd(BAEC Govt. Project)	BAERA, Agargaon	On-grid roof- top Solar system	10KWp	In Operation
10	Pleiades Engineering Ltd(BAEC Govt. Project)	BCSIR, Chittagong	On-grid Ground mounting Solar system	80KWp (With net- metering)	In Operation
11	Ahad Jute Spinning Mill, Jashore	Baliadanga,J ashore	On-grid Roof-top Solar power plant	231KWp (With net- metering)	In Operation
12	Ismail Bin Ibrahim	Flat-15/A, MariumTower 1 78/3 Unite nations Road, Baridhara, Dhaka	On-Grid Solar System	3.6 KWp	In Operation
13	Engr. Uzzal Mamun	Uttara, Dhaka	On-Grid Solar System	5.6 KWp	In Operation
14	Navana Real Estate	Navana FS Cosmo, Gulshan-2, Dhaka.	On-Grid Solar System	7.0 KWp	In Operation



15	Navana Real Estate	Navana Lupine , Bashundhara, Dhaka.	On-Grid Solar System	6.0 KWp	In Operation
16	Ns Enterprise	Saydabad ,Dhaka	On grid Solar	8 kwp	In Operation
17	LEDARS (NGO)	Sathkhira, Shyam nagar	Hybrid Solar System	17.10 kwp	In Operation
18	International Talent Care Academy (NGO)	Munshiganj	Off-grid Solar System with Solar pump(4kwp)	16 kwp	In Operation
19	Ahnf Ashraf Prince	Gaforgaon, Maymansing	Hybrid Solar System	3 kwp	In Operation
20	LEDARS (NGO)	Sathkhira, Shaymnagar	Hybrid Solar with 16Nos Battery with Existing System	3.42 Kwp (Total :20.5 Kwp)	In Operation
21	Shinjon Mart	Sathkhira, Shaymnagar	Solar Pump Project	4.4 Kwp Solar Pump Project	In Operation
22	RK Group of Industries	Narayanganj	Solar Hybrid Project with battery backup	10.450 KWP Hybrid	In Operation
23	Mr. Shuvra	Bashundhara, R/A	Grid Tie Solar	4.2 Kwp	In Operation
24	Nikola Energy	Narayaganj ,Meghna Oil depot	On grid Solar System (With net- metering)	40.7 Kwp	In Operation
25	Primier Plaza	Badda	On Grid Solar	60kwp	In Operation
26	Ahad Jute Mill, Jashore	Baliadanga ,Jashore	On Grid Solar (With net-metering)	344 Kwp (Total 574.5kwp)	In Operation
27	Nikola Energy	Narayaganj ,Meghna Oil depot	On grid Solar System (With net- metering)	40.7 Kwp	In Operation
28	RCPL	Bhaluka, Mymensingh	On Grid Solar System	151.26 Kwp	In Operation
29	Fresh Health Clinic and Diagnostics	Fulbarigate, Khulna	On Grid Solar System	10.08 KWp	In Operation



Gallery







