



ENGINEERING PARTNER TO EPCs & DEVELOPERS

Solar design. Engineering depth. Execution support.

Design & engineering | Switchyards
EPC | Installation & commissioning



EST. 2019 / NOIDA, INDIA



Representative solar imagery

Built around engineering. Connected to execution.

BRK Energy International supports EPC companies and solar developers with design and engineering for rooftop and ground-mounted projects. Based in Sector 99, Noida, BRK also undertakes solar EPC, installation and commissioning assignments.

BRK AT A GLANCE

Established in 2019

Proprietorship

Sector 99, Noida, India

1 GW+

PROJECT EXPERIENCE

50+

PROJECTS

15+

YEARS OF EXPERTISE

Combined company and team experience

These figures combine BRK assignments and team members' previous professional experience. They do not represent BRK-only execution totals or years since establishment.

Engineering support across the project lifecycle.

Defined work packages for EPC companies, developers and project teams.

01

Solar design & engineering

Electrical, civil and structural design; coordinated drawings, calculations and BOQs.

02

Switchyard & evacuation

Switchyard engineering, electrical layouts and power evacuation interfaces.

03

Solar EPC

Engineering, equipment supply and execution, supported by completed 1 MW EPC experience.

04

Installation & commissioning

Installation-only and I&C contracts, site coordination and handover support.

Primary focus: outsourced design and engineering for rooftop, ground-mounted and utility-scale solar projects.

Detailed engineering for construction.

From plant layouts and system configuration to equipment specifications and field drawings.

Plant & system design

- Array and equipment layouts
- String sizing and inverter configuration
- DC and AC single line diagrams

Equipment & quantities

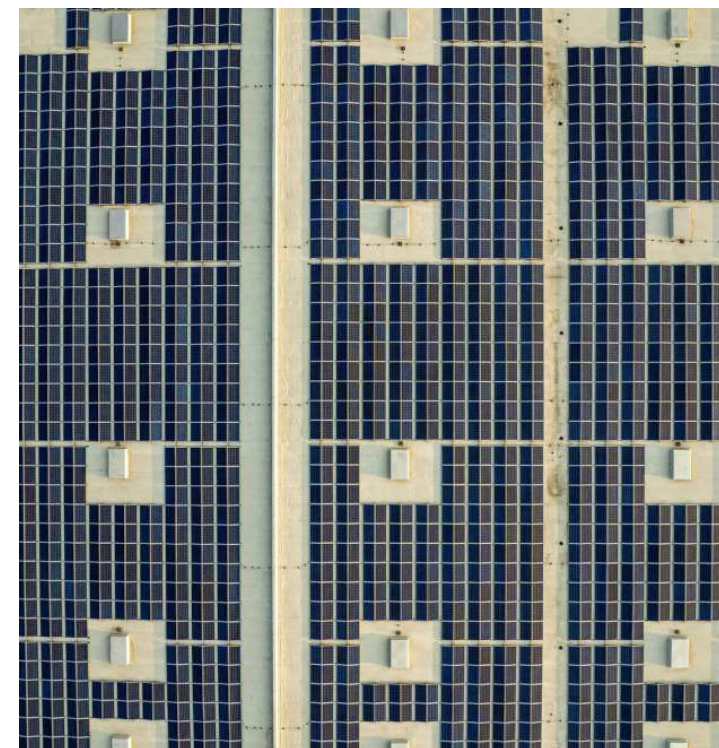
- Equipment GA and GTP review
- Technical specifications
- BOQ preparation

Cables & protection

- Cable sizing and routing
- Earthing and lightning protection
- Cable trench and tray layouts

Project interfaces

- Grid interconnection drawings
- Utility coordination drawings
- As-built documentation



Representative rooftop imagery

Coordinated with the electrical design.

Civil and structural deliverables for plant infrastructure, equipment and supporting facilities.



Representative ground-mounted solar imagery

Module mounting structures

Structure design, foundation drawings and layout coordination.

Equipment foundations

IDT foundations and related civil engineering deliverables.

Control buildings

Inverter control room and main control room design and drawings.

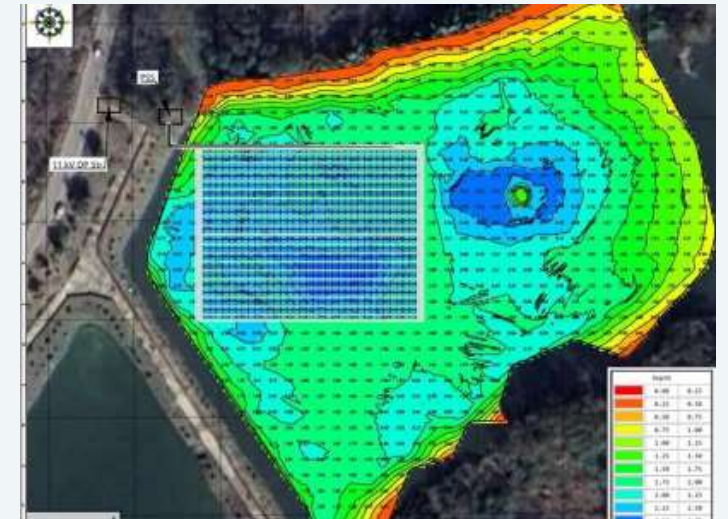
Site facilities

Watch towers, security cabins and supporting civil structures.

From site information to a coordinated design.

Design tools support energy assessment, layout development and clear engineering communication across the project team.

- Energy yield assessment and PV simulation
- Shading and loss analysis
- Layout optimization and 3D visualization
- 2D engineering drawings and design coordination



Illustrative analysis output

AutoCAD

PVsyst

HelioScope

SketchUp

STAAD.Pro

Power evacuation and project interfaces.

Switchyard engineering supports the connection between the solar plant and the evacuation system, with scope defined for each assignment.

27 kV

COMPLETED ASSIGNMENT

132 kV

ONGOING ASSIGNMENT

BESS | Seeking engineering opportunities

BRK is seeking opportunities to support BESS projects. This is a developing service area; BRK has not yet executed a BESS assignment.



AI-generated switchyard illustration

Engineering experience. On-site delivery.



1 MW

COMPLETED SOLAR EPC

Including equipment supply

Execution scope

- Solar EPC including equipment supply and execution
- Installation-only and I&C contracts
- Site coordination and commissioning support
- As-built and handover documentation

Selected project assignments.

A focused view of BRK's solar engineering, switchyard and EPC work.

CAPACITY	APPLICATION	BRK SCOPE	STATUS
12 MW	Solar project	Design & engineering	Completed
15 MW	Solar project	Design & engineering	Completed
11 MW	Rooftop solar	Complete design & engineering	Ongoing
27 kV	Switchyard	Switchyard assignment	Completed
1 MW	Solar EPC	EPC including equipment supply	Completed

Ongoing: 132 kV switchyard assignment.

Supporting established solar project teams.

BRK's scope: complete design and engineering for assigned project work.



Vikram Solar

11 MW rooftop solar | Ongoing

Tamil Nadu



RMC / MAHAGENCO

30 MW ground-mounted solar

Maharashtra



TrueSolengineering

Solar project / portfolio

Madhya Pradesh

Names identify project associations; the direct contracting party varies by assignment. Images are representative.

People responsible for engineering delivery.

Ahmad Khan

Design Head

10+ years of experience

Project planning, design validation, civil structure optimization and QA/QC. Experience in detailed engineering and project management across rooftop and ground-mounted solar.

N.A. Khan

Civil Head

5 years of experience

Civil and structural engineering, module mounting structures, foundations, control buildings, IDT foundations and site facilities.

B.Tech, JMI | M.Tech, IIT Roorkee

Engineering and coordination, working together.

NAME	ROLE	EXPERIENCE	FOCUS
Shamim Ahmed	Design Engineer	2 years	Layouts, cable routing and solar simulation
Deepak	Civil Engineer	5 years	Foundations, structures and civil facilities
Azam Khan	Civil Engineer	5 years	Foundations, structures and civil facilities
Rayyan Khan	Draftsman	1 year	AutoCAD drafting and STAAD.Pro
Adil Sheikh	Project Coordinator	2+ years	Coordination, submission tracking and client communication

Qualifications Shamim Ahmed: B.Tech / M.Tech | Rayyan Khan: Diploma in Mechanical Engineering

Experience carried into today's engineering work.

Selected prior professional experience of BRK leadership; these are not presented as BRK-contracted projects.

800 MW

Tracker solar | Khavda, Gujarat

Engineering, electrical and support structure work

15 MW

Canal-top solar

Structural, electrical and support structure engineering

7 MW

Floating solar

Engineering, stability analysis and mooring design

500 kW

Floating solar

Layout, electrical, anchoring and mooring engineering

Clear scope. Coordinated engineering. Site support.

An engagement framework for technical accuracy, responsiveness and controlled submissions.

01

Align the scope

Inputs, deliverables, interfaces and submission priorities.

02

Develop the design

Electrical, civil and structural engineering with coordinated outputs.

03

Review & coordinate

Design checks and resolution of discipline interfaces.

04

Submit & revise

Drawing submissions, comment resolution and revision tracking.

05

Support execution

Technical responses to site queries and implementation needs.

06

Close & hand over

Final documentation and as-built updates within the agreed scope.



Discuss your next engineering assignment.

Share your project brief, scope and target schedule.



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