



BUILDING THE
GREEN FUTURE

 **K·SOLAR**
OUR SUN IS GREEN



Our Sun is Green

K-Solar is the solar power solutions subsidiary of K-Electric, a privately owned and vertically integrated power utility that has been the sole power supplier to Karachi and its neighboring areas of Dhabeji and Gharo in Sindh, and Uthal, Vinder and Bela in Balochistan for over one hundred years.

K-Solar aims to build upon the standards set by its parent company by providing clean and green energy solutions to its customers across the industrial, commercial, and residential segments.

Message from C.E.O



With a legacy of over one hundred years behind us, my teams and I at K-Solar will look to build upon the excellent work done by our parent company. K-Solar will work on the premise of taking Karachi, and Pakistan, towards a more sustainable energy future. Over the years, solar energy systems have become more readily accessible, reliable and affordable. It is now a critical element of supporting the nation's industrial, commercial and residential energy needs. By installing state-of-the-art solar systems, we will also aim to help our customers in reducing their carbon footprints.

Hashim Raza
Chief Executive Officer



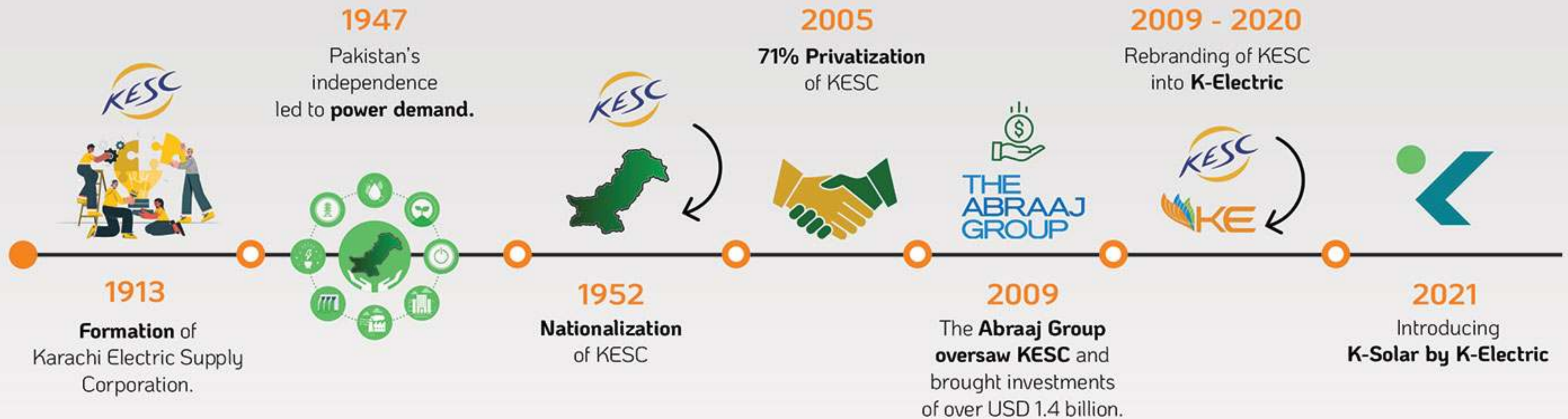
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www.k-solar.com.pk

KE Journey

100 Years Of Serving You!





WHO WE ARE?

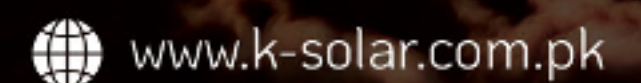
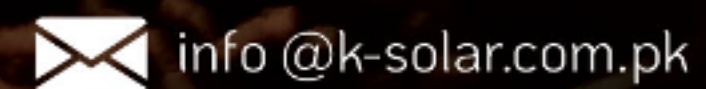
WHO WE ARE?

K-Solar - End-To-End Solution Provider For Your Solar Energy Needs

A newly launched company; K-Solar -backed by K-Electric, is an exclusive solar energy services provider to K-town's residents. We seek to offer affordable electricity by making the most of the solar energy that eventually reduces your cost. K-Solar has the capacity to execute solar energy projects of any scale. K-Solar is managing turnkey operations and delivering turnkey projects across the city without any hassle. From utility sectors to rooftop, and special projects like floating solar plants, BESS, mini and microgrids, we do it ALL!

At K-Solar, we ensure reliable and safe project execution right from strategic planning to the use of the latest technology.

WHY K-SOLAR?



WHY K-SOLAR



Magnifying Mastery

We are building on KE's Expertise with our 100+ years of experience in the power sector

Delivering 24/7 customer service support.

Handling largest project management and O&M



Higher Bankability

Reputable company with strong economies of scale.

Strong partnership support at the back.

Largest inventory management capability across the country



Consumer Satisfaction

Our systems perform efficiently with quick service support to resolve queries and issues

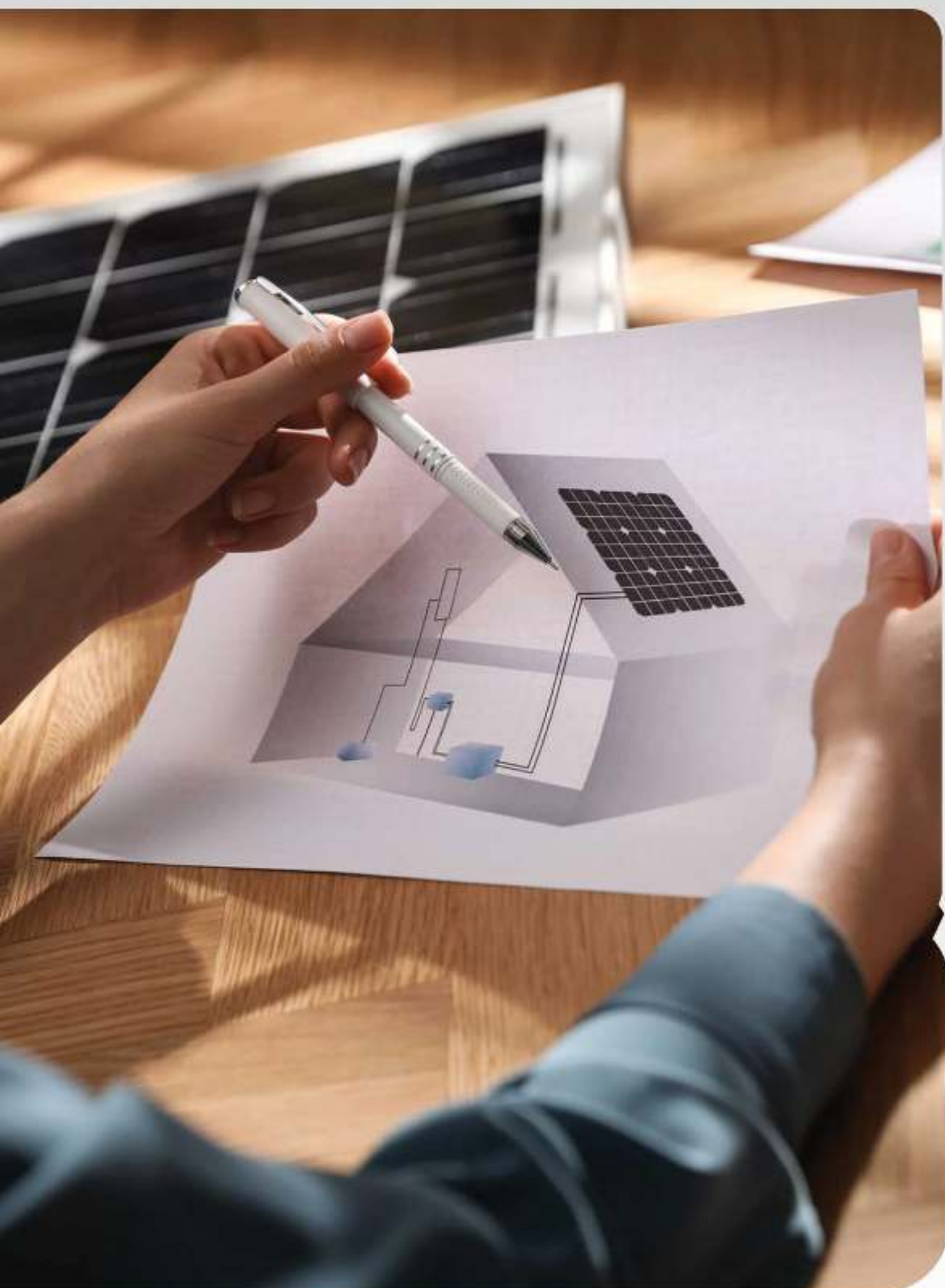


Free Consultation

Get guidance and tips about your selected solar system from our solar experts that too free of cost.

Seek free consultation and direction to optimize your usage





Financial Innovation

Leveraging relationships and a strong reputation to increase affordability for customers

Innovative financial products (PPAs & Lease with competitive pricing)



Smart Management

Leveraging relationships and a strong reputation to increase affordability for customers

Innovative financial products (PPAs & Lease with competitive pricing)



One-Stop Solution

We offer all types of solar solutions - on-grid / off-grid / hybrid and more



Lower Cost

We offer all types of solar solutions - on-grid / off-grid / hybrid and more



OUR OFFERINGS

SOLAR EPC

K-Solar offers Solar EPC for solar deployment. In this model, consumers have to purchase solar PV systems, by making 100% of their payment upfront or financing the system often through a bank.



PPA / LEASE

K-solar also offers PPA / Lease for solar deployment. In this model, the developer buys the solar rooftop assets and sells the produced power to the building owner giving support to a lower solar power tariff. The building owner can sell the excess energy to the utility by making a power purchase agreement through a net metering system.



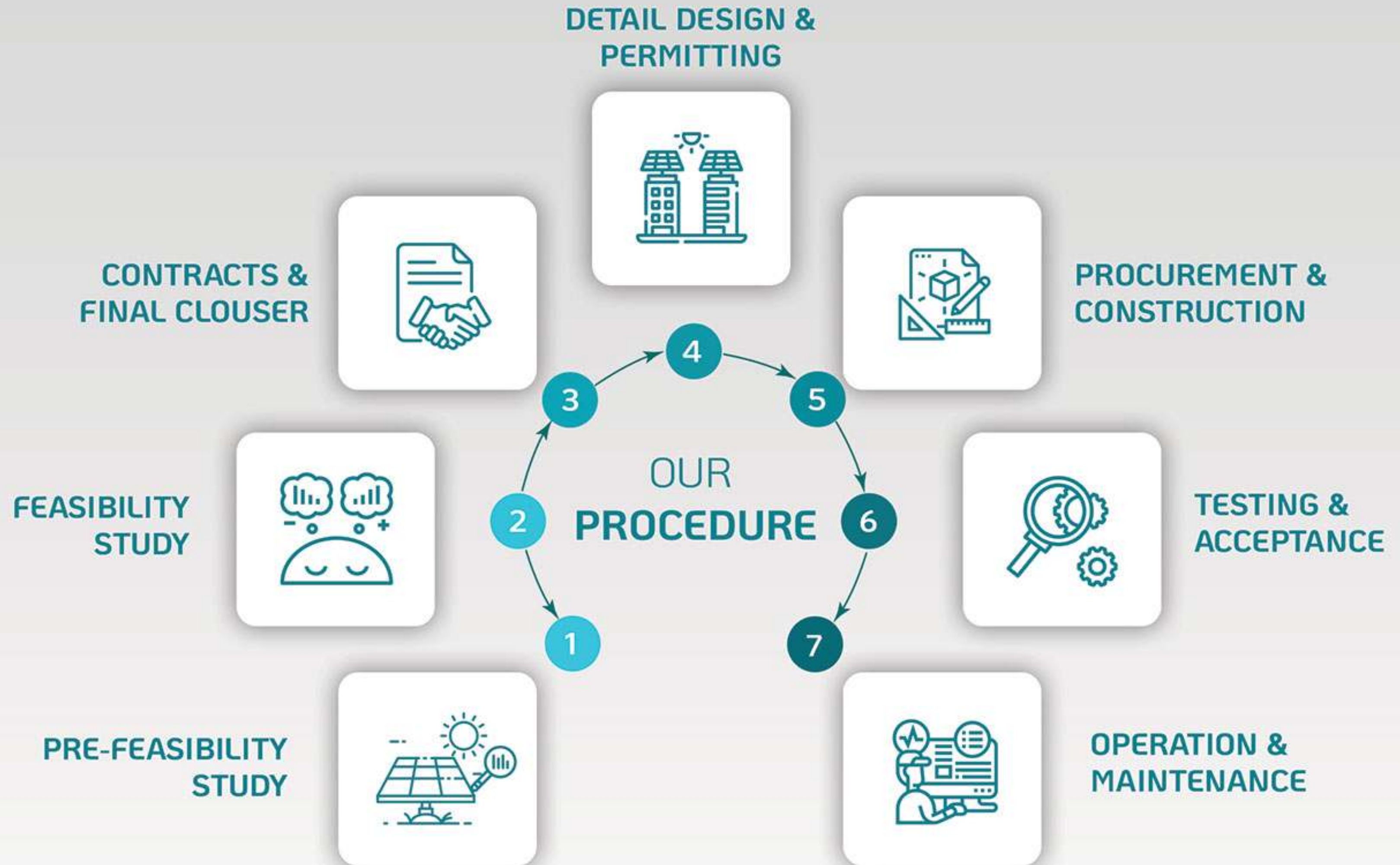
O&M

K-Solar provides O&M for efficiency improvement services, including plant inspection and health check, efficiency enhancement scope definition, detailed engineering and execution, plant operations and maintenance, and performance evaluation.



OUR PROCEDURE

We have a comprehensive process, covering all the stages from survey to planning, development, and execution. And, we make sure that our consumers understand the technicalities of the whole procedure. At K-Solar, our solar experts are always here to guide you throughout the process.



WHY SOLAR



Instant reduction on your electricity bills



Increment in **savings**



Less than 2% of the maintenance cost of a system



Sustainable investment for 15-20 years

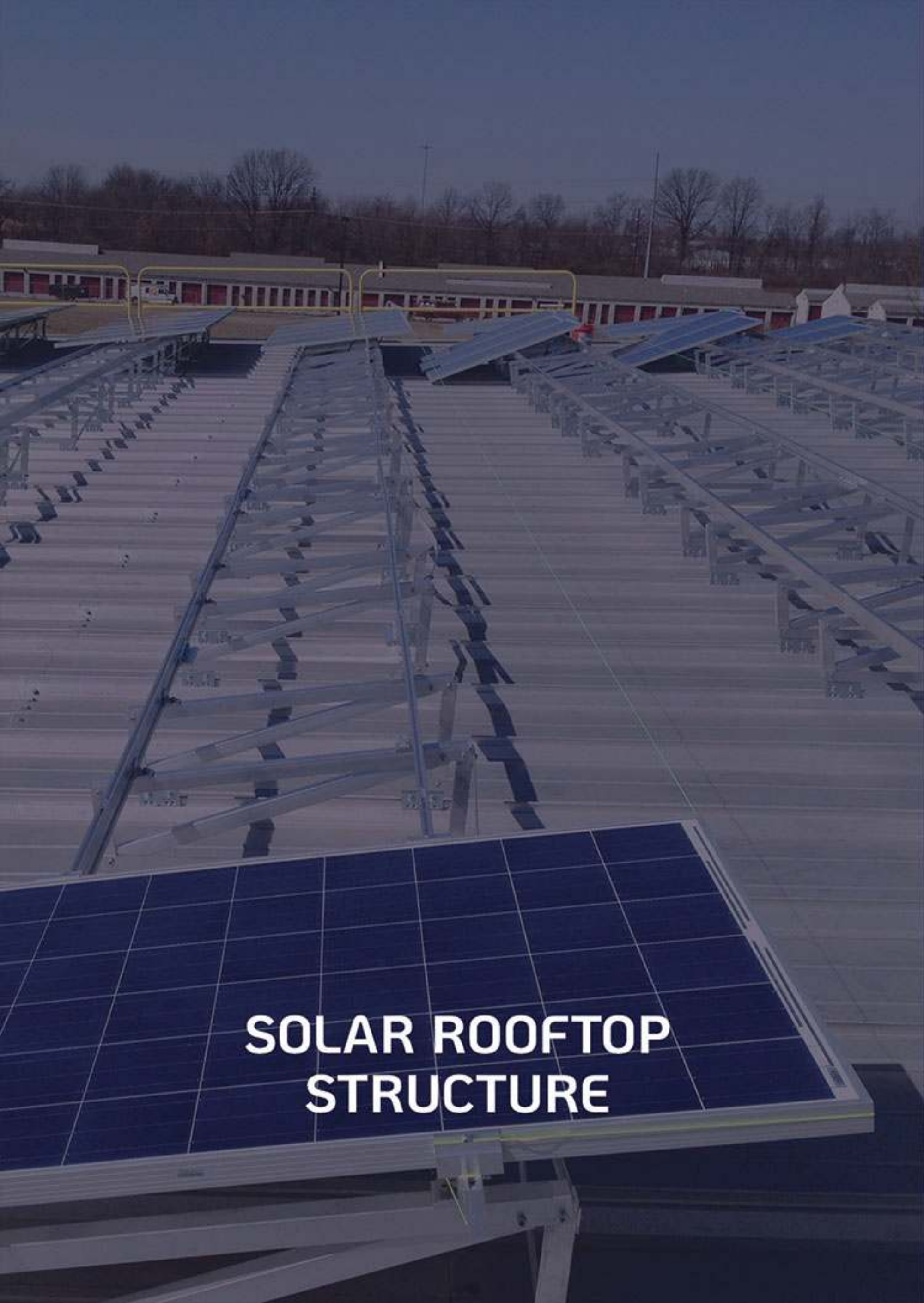


Reduction in carbon footprint

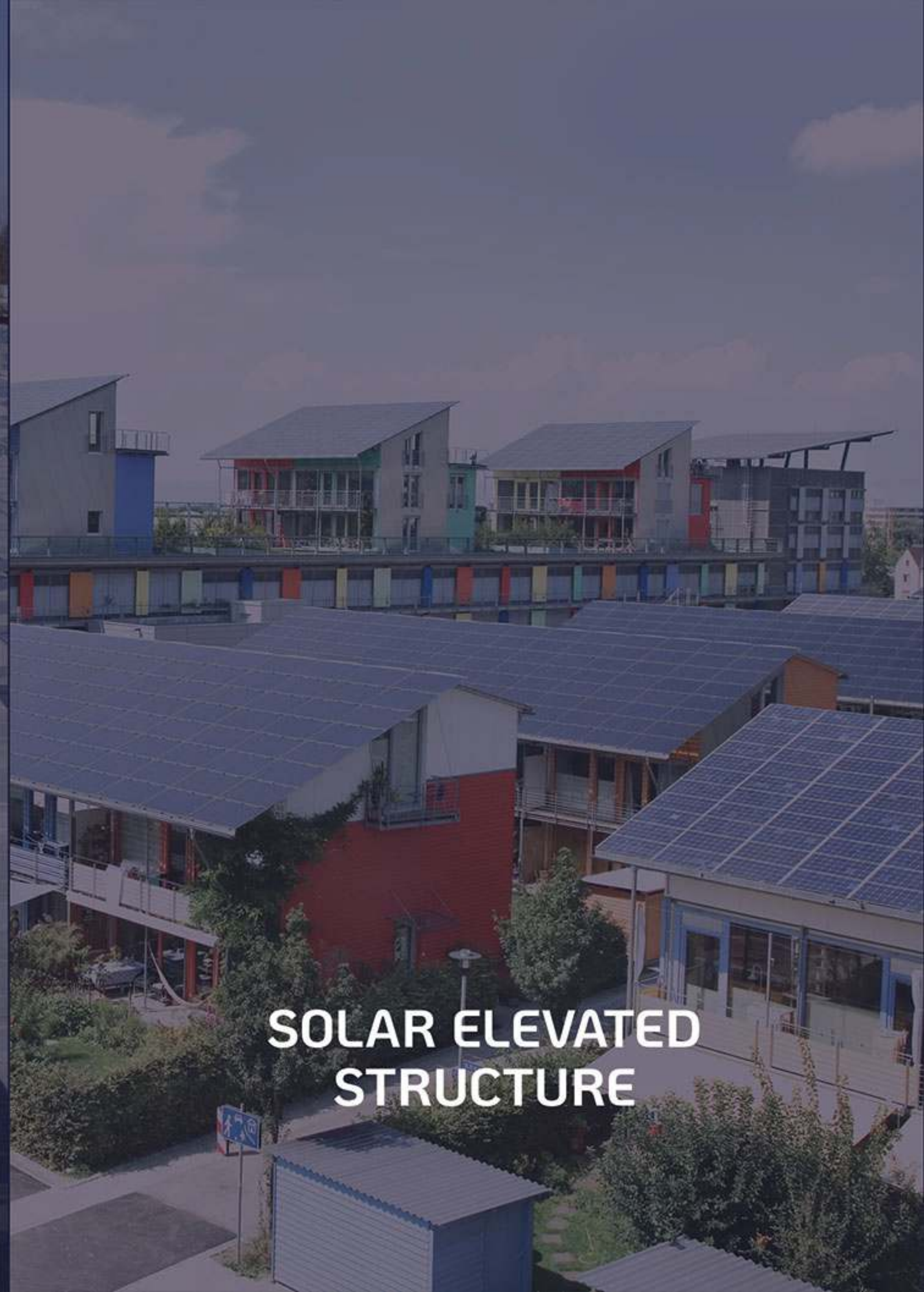


Protection from the future hike in electricity prices

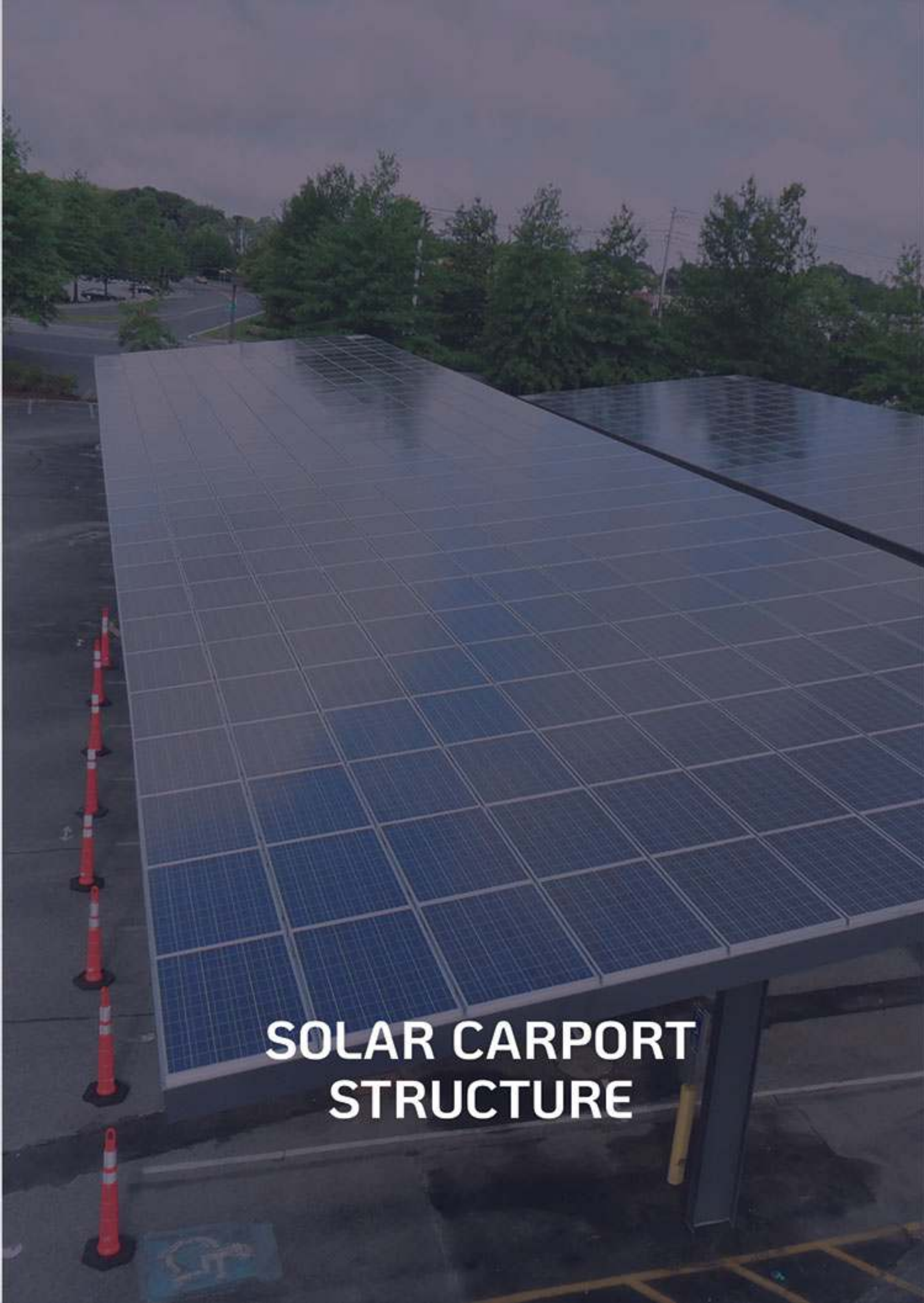
INSTALLATION TYPE



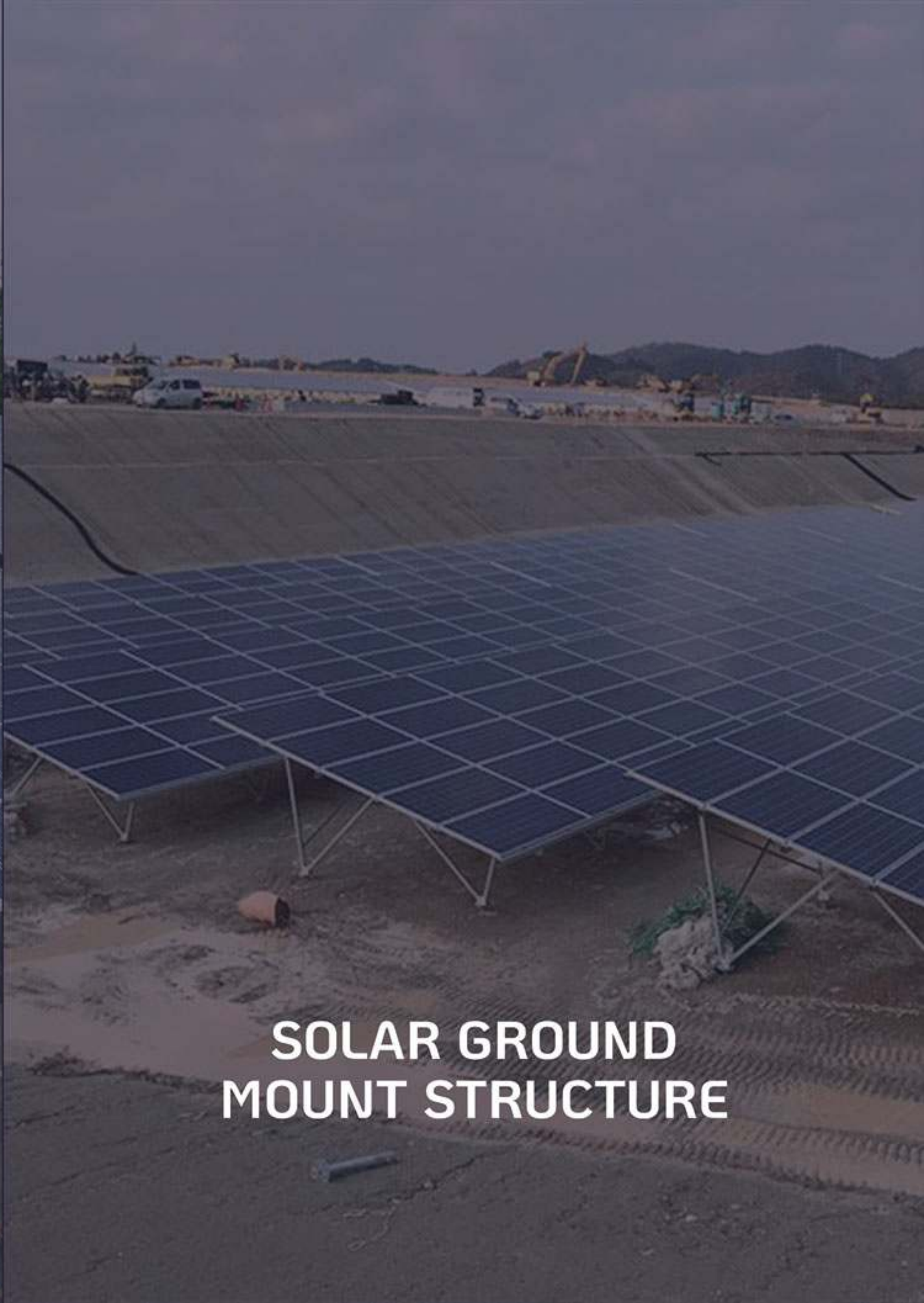
**SOLAR ROOFTOP
STRUCTURE**



**SOLAR ELEVATED
STRUCTURE**



**SOLAR CARPORT
STRUCTURE**



**SOLAR GROUND
MOUNT STRUCTURE**

OTHER SERVICES

ENERGY AUDITS

K-Solar's team of energy efficiency and sustainability experts specializes in performing ASHRAE Level- I, Level-II, and Level-III audits. Our energy auditing services encompass the following:

- Elaborate action plans and strategy development for energy efficiency improvement
- Measurement and verification
- Comprehensive list of energy auditing tools
- Energy Performance Analysis and Benchmarking of different energy consumption systems
- Energy Management System Design and Implementation
- Building Energy Modeling
- Custom audits catered to serving a diverse clientele
- Cost Analysis of Energy Efficiency Improvement Opportunities

5 STEPS OF GETTING MOST OUT OF AN ENERGY AUDIT



LEED CONSULTANCY

K-Solar offers green building design consultancy. Our team of energy efficiency and sustainability experts specialize in sustainable building design, modeling and construction. K-Solar also assists our customers in attaining LEED certifications under the Building Design & Construction (BD&C) and Existing Buildings (O&M) Rating Systems for a variety of project types such as healthcare, education retail and residential.

K-Solar's LEED Consultancy Services include:

- Project LEED documentation services for certification
- Screening for minimum program requirements
- Design conceptualization charrette
- Design advisory
- LEED certification administrative work.
- Training for facility operations team
- Commissioning supervision

LEED CERTIFICATION LEVELS



LEED Certified
40-49 points



Silver Certification
50-59 points



Gold Certification
60-70 points



Platinum Certification
80+ points

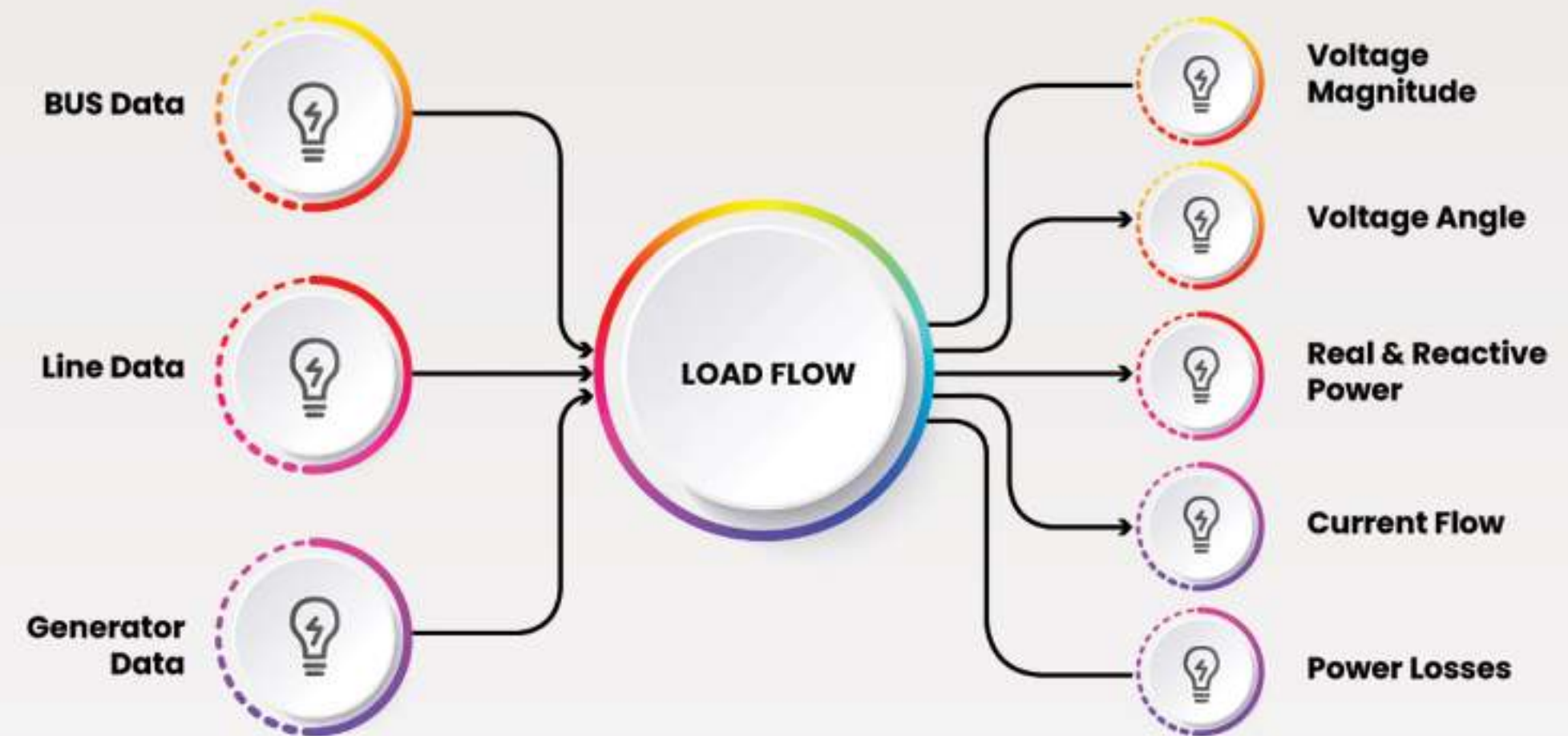
LOAD FLOW STUDIES

What is Load Flow Analysis?

Load flow study is the steady-state analysis of the power system network. The study determines the operating state of a system for a given loading condition. K-Solar's Experts help you validate your system models to ensure a reliable and robust design. Our team utilizes industry leading software tools to perform an efficient and comprehensive analysis of your system.

- Power factor correction
- Automatic device evaluation
- Temperature correction
- Voltage regulator actions
- Real & reactive power losses
- Extensive violation alerts and reporting
- Simulation using multiple loading & generation conditions
- Per phase graphical of results
- Comprehensive Reporting

LOAD FLOW



K-Solar's experts use **PSS[®]SINCAL** Software to conduct Load Flow Analysis

THANK YOU
FOR YOUR INTEREST IN





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