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Company Profile
2025

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Intro

Novin Simia Company

Novin Simia Company, founded in 2008, is a leading EPC (Engineering, Procurement, and Construction) and manufacturing firm in Afghanistan's electrical sector. With two decades of experience, we have built a reputation as a trusted partner, offering a wide range of services and products to diverse clients.

Our operations are divided into two primary divisions:

EPC Division – delivers comprehensive turnkey solutions for electrical projects. We manage the entire process, including design, engineering, procurement, construction, installation, testing, and commissioning. Our expertise covers substations, distribution networks, transmission lines, and renewable energy power plants.

Production Division – features four state-of-the-art manufacturing facilities that produce a wide range of electrical products, including medium and low voltage electrical equipment (switchgears & switchboards), spun concrete poles, and galvanized steel structures. We serve a broad range of sectors, including utilities, commercial enterprises, and residential customers.

Our impressive project portfolio and extensive customer base reflect our commitment to quality and our dedication to delivering exceptional services and products.

Quality, Environment and Safety

Novin Simia is proud to announce that our quality and environmental management systems have been certified in accordance with ISO 9001:2015 and ISO 14001:2015, respectively. Additionally, our occupational health and safety management system has been evaluated and certified to meet the standards of OHSAS 18001:2007.



ISO 9001



ISO 14001



OHSAS 18001

Engineering

At Novin Simia, we have established an in-house design team comprised of skilled engineers with extensive experience in design-build contracts for electrical projects. Our designs adhere to the standards set by the International Electrotechnical Commission (IEC) and other relevant international codes. A key advantage of our design team is their ability to travel to project sites, enabling them to develop practical and cost-effective design solutions tailored to each project's unique requirements.

Procurement

With two decades of successful experience as both a contractor and manufacturer in the electrical industry, Novin Simia has demonstrated its capacity for effective procurement. We identify suppliers whose products meet project specifications, align with budget constraints, and can be delivered on time to adhere to project schedules.

Construction

Our construction team is equipped with quality machinery and equipment to execute installation and construction works on-site. We manage civil works, construction, erection, and installation services for complex electrical projects, including substations, distribution networks, transmission lines, and renewable energy power plants. Additionally, we offer comprehensive testing and commissioning capabilities to ensure the successful delivery of these projects.

EPC Solutions

- Substations
- Distribution Networks
- Transmission Lines

Salang Substation

Erection and Installation of Afghanistan's Highest Altitude Substation (3200m Alt.)

- 220/20 kV Voltage Rating
- 2x4 MVA, 220/20 kV Transformer Bay
- Double Bus System
- 2 Incoming 220 kV
- 4 Outgoing 20 kV Feeders
- 10 km MV Distribution System

Client:

Da Afghanistan Breshna Sherkat (DABS)

Prime Contractor:

USLUEL-OMRAN JV

Novin Simia's Role:

Subcontractor

📍 Salang, Parwan Province, Afghanistan
May. 2018 – Mar. 2020



EPC Project Experience

On Map



220/20 kV Pul-e Alam Substation

NEPS Electrical Transmission Projects - Phase I, 220/20 kV Substation Installation, Testing and Commissioning of Pul-e Alam Substation.

Client:

Da Afghanistan Breshna Sherkat (DABS)

Prime Contractor:

Assist Consultants Inc. (ACI)

Novin Simia's Role:

Subcontractor

- 220/20 kV Voltage Rating
- 4x16 MVA, 220/20 kV Transformer Bay
- Double Main Bus & Transfer Bus System
- 2 Incoming/Outgoing 220 kV
- 4 Outgoing 20 kV Feeders

Pul-e Alam, Logar Province, Afghanistan

May. 2016 – May. 2018

Substation Extension Projects

Design-Build Subcontracts

Novin Simia successfully completed several 110/20 kV substation extension projects, covering all aspects of design, construction, supply, installation, testing and commissioning.

- Pol-e Charkhi Substation: 40 MVA Transformer Bay
- Breshnakot Substation: 20 MVA Transformer Bay
- Northwest Substation: 20 MVA Transformer Bay
- North Substation: 40 MVA Transformer Bay

Client: Da Afghanistan Breshna Sherkat (DABS)

Prime Contractor: Assist Consultants Inc. (ACI)

Novin Simia's Role: Subcontractor (Full EPC)

📍 Kabul, Afghanistan
Sep. 2017 – Dec. 2020



NEI Asqalan ANSF Project Design-Build Subcontracts

Design, construction, supply, installation, testing and commissioning of Asqalan Substation Extension and associated Power Distribution Line.

- 220/20 kV Voltage Rating
- 25 MVA, 220/20 kV Transformer Bay Extension
- 1 Incoming 220 kV
- 4 Outgoing 20 kV Feeders
- 32.6 km Double Circuit 20 kV Power Distribution Line

Client: Da Afghanistan Breshna Sherkat (DABS)

Prime Contractor: Assist Consultants Inc. (ACI)

Novin Simia's Role: Subcontractor (Full EPC)

📍 Asqalan, Kunduz Province
Nov. 2016 – Oct. 2020

20 kV Interconnection Cable & Junction Substations JS1 & JS2

Design-Build Prime Contract

20 kV UGD Distribution System & Junction Substations

Design, construction, supply, installation, testing and commissioning of 7.04 km Double Circuit 20 kV Underground Power Distribution Line & two 20 kV Junction Substations in Mazar-e Sharif.

Employer:
Ministry of Energy and Water (MEW)
Finance:
KfW Bank, Germany
Project Engineer:
Fichtner Consulting Engineers
Novin Simia's Role:
Prime Contractor



 Mazar-e Sharif, Balkh, Afghanistan
Dec. 2018 – Jun. 2020



Darulaman, Pul-E-Charkhi & Central Supply Depot (CSD)

Design-Build Subcontracts

20 kV OHL Distribution System

Design, construction, supply, installation, testing and commissioning of 39.09 km 20 kV Power Distribution Line (27.81 km Double Circuit & 11.28 km Single Circuit).

Client:
Da Afghanistan Breshna Sherkat (DABS)
Prime Contractor:
Assist Consultants Inc. (ACI)
Novin Simia's Role:
Subcontractor (Full EPC)



 Kabul, Afghanistan
Sep. 2017 – Dec. 2020

MV/LV Distribution Networks (Karrokh and Pashtun Zarghoon)

Turnkey Prime Contract

Survey, construction, supply (construction materials only), installation, testing and commissioning of 20 kV OHL distribution system.

Employer:

Da Afghanistan Breshna Sherkat (DABS)

Finance: World Bank

Novin Simia's Role: Prime Contractor

📍 Herat, Afghanistan

May. 2019 – Aug. 2020

- 69.3 km 20/0.4kV Network Survey
- 69.3 km 20 kV Power Distribution Line
- 115.6 km 0.4 kV Networks
- 64 units 20/0.4 kV Power Transformers (50-400 kVA)
- 1303 units 0.4 kV Meter Boxes

Ongoing Projects

Novin Simia is currently executing four significant projects, encompassing design, construction, supply, installation, testing and commissioning.

- **Dasht-e-Alwan Substation:** 500/220/20 kV substation with incoming line bay, 2x100 MVAR shunt reactor bays. (Client: DABS, Role: Subcontractor, Duration: Jun 2024 - Ongoing)
- **Tarakhail & Butkhak Substations:** 220/110/20 kV substations with line bays, 7x63 MVA transformer bays. (Client: MEW, Role: Subcontractor, Duration: Sep 2024 - Ongoing)
- **Kandahar Breshnakot Substation:** 110/20 kV line bay extension with transformer bay and outgoing feeders. (Client: DABS, Role: Prime Contractor, Duration: Feb 2024 - Ongoing)





Design and Engineering

Novin Simia has established a skilled in-house design team comprised of experienced engineers with extensive expertise in design-build contracts for electrical projects. Our designs adhere to the International Electrotechnical Commission (IEC) standards and other relevant international codes. With our dedicated design team, Novin Simia is equipped to manage and execute projects from the initial design phase through implementation and maintenance.

A key advantage of our design team is their ability to travel to project sites, allowing them to develop applicable and cost-effective design solutions tailored to specific conditions. We have successfully completed numerous major electrical projects, with our designs reviewed and approved by various clients, including Fichtner GmbH (consultant to KfW), the Asian Development Bank, the World Bank, and Da Afghanistan Breshna Sherkat (DABS).

Services

Novin Simia provides comprehensive design and engineering services for:

- Substations
- Distribution Networks
- Transmission Lines
- Equipment Standards and Specifications
- Power Plants
- Junction Switchgear
- Civil and Structural design

Substations

Novin Simia delivers high-quality design for both new substations and substation extension projects. Our team possesses nationwide experience in substation and switchyard design for transmission and distribution systems. We support clients through the entire design process, from initial system and facility review and planning to detailed engineering, construction, and final commissioning. Our comprehensive range of substation design services accommodates voltages from 4.16 kV to 500 kV.



Transmission Lines and Distribution Networks

In designing transmission lines and distribution networks, Novin Simia utilizes state-of-the-art software, including PLS-CADD, PLS TOWER, PLS-Pole, CAISSON, and Southwire Sag10, along with several custom tools developed in-house using Microsoft Excel. Our team can work with existing design specifications or develop new standards tailored to project requirements. Once the design standards are established, our engineers model structures and conduct comprehensive 3D analysis using the PLS software suite.

Novin Simia ensures that all transmission lines and distribution networks designs comply with ANSI, IEEE, IEC, NEC, NESC, RUS, BS, and other applicable or project-specific standards.



Test and Commissioning Services

- High Voltage Equipment Testing
- Power Transformers, Reactors and Capacitor Banks Testing
- Secondary Protection Relays Testing
- Automation/SCADA, Telecommunication, and Teleprotection System Launch
- Transmission Lines Testing
- MV Distribution Networks Testing

Novin Simia provides a comprehensive range of testing and commissioning services for high-voltage substations up to 500 kV, transmission lines, and medium voltage distribution networks. Leveraging advanced technology, a skilled technical team, and portable test devices, we ensure that projects are being tested and commissioned swiftly and effectively. We are equipped to handle testing and commissioning of large projects of any scale and complexity with confidence.

We possess thorough and in-depth understanding of the intricacies of substations, transmission lines, and distribution networks. Our team of expert engineers and technicians who have received top-tier training internationally utilizes advanced testing methodologies and cutting-edge equipment to provide accurate and reliable assessments, ensuring the highest standards of performance and safety.



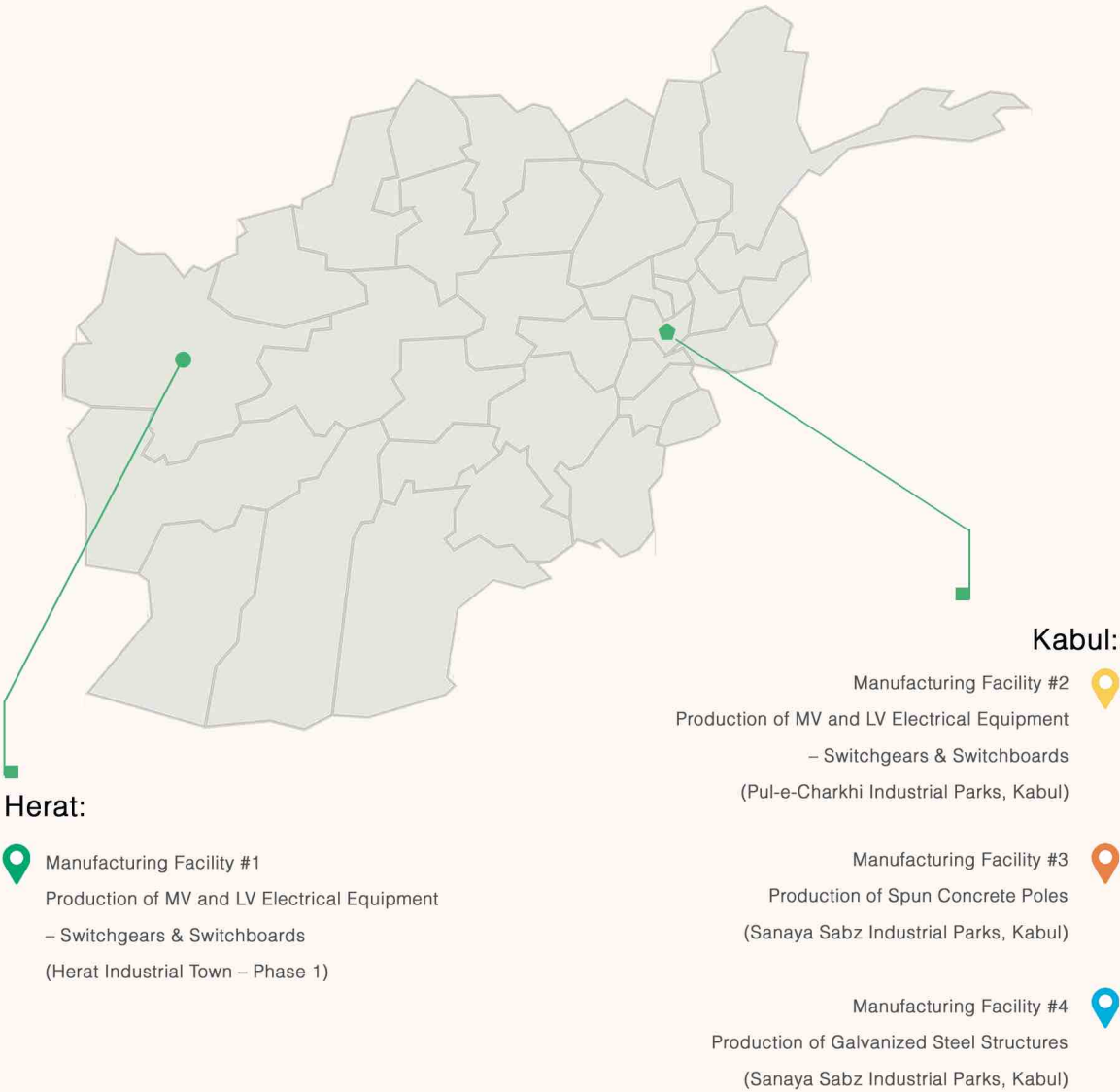
Our test and commissioning services encompass the complete substation equipment, including power transformers, reactors, capacitor banks, circuit breakers, disconnect switches, high-voltage surge arresters, current transformers, capacitive voltage transformers, secondary protection relays, conductors & power cables, grounding systems, battery banks, and AC & DC power systems. Additionally, we specialize in the installation and launch of SCADA, telecommunication and teleprotection systems.

Moreover, we provide specialized testing and commissioning services for transmission lines and medium-voltage distribution networks, guaranteeing reliability, safety, and compliance with international standards. Our sufficient expertise ensures operational efficiency, prevents outages, and minimizes failures through thorough line integrity assessments and performance evaluations.

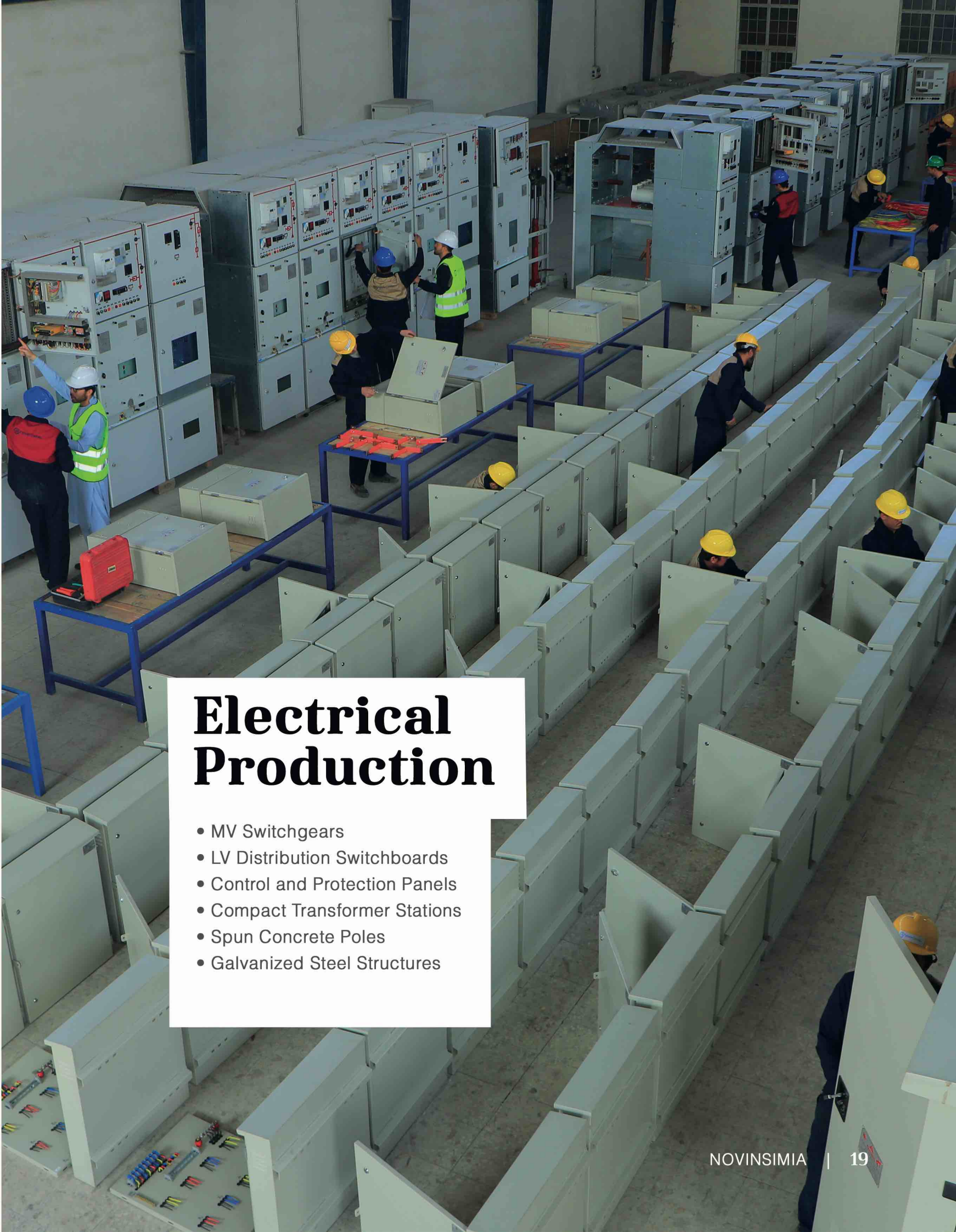
Our clients' satisfaction is paramount. By combining technical expertise with a deep focus on full collaborations and timely delivery, we ensure that our testing and commissioning services consistently exceed our clients' expectations.

Novin Simia

Manufacturing Facilities



Novin Simia’s Production Division, featuring four advanced manufacturing facilities, produces MV switchgears, MV cubicles, LV switchboards, LV meter boxes, automatic and manual transfer switch panels, capacitor bank panels, control and protection panels, compact transformer stations, cable management systems (cable tray and cable rack), spun concrete poles, and galvanized steel structures. We serve a broad range of sectors, including utilities, commercial enterprises, and residential customers.



Electrical Production

- MV Switchgears
- LV Distribution Switchboards
- Control and Protection Panels
- Compact Transformer Stations
- Spun Concrete Poles
- Galvanized Steel Structures

Electrical Products

Novin Simia manufactures high-quality, standardized, and rigorously tested products across following key categories:

1. Medium Voltage Products

Air Insulated MV Switchgears
(up to 24 kV, 2500 A & 31.5 kA)

2. Low Voltage Products

LV Switchboards, Meter Boxes, ATS/MTS Panels & Capacitor Banks (up to 4000A & IP 65).

3. Substation Products

AC/DC Panels, Bay Marshalling Kiosk, Control & Protection Panels

4. Compact Transformer Stations

Ranging from 25 kVA to 2500 kVA

5. Steel Structure & Cable Management Products

Galvanized Steel Structures, Cable Tray, Ladder & Rack Systems

Applicable Standards

At Novin Simia, we manufacture our products in accordance with the International Electrotechnical Commission's (IEC) standards. In addition, we adhere to other relevant standards, including UL, the National Electrical Code (NEC), NFPA 70, and the National Electrical Manufacturers Association (NEMA). Detailed references for each product's standards can be found in our "Product Data" package.



Manufacturing Equipment and Machinery

At Novin Simia, we utilize high-quality, advanced equipment and machinery to ensure the production of safe and superior products. Sourced from Europe, our equipment underscores our commitment to excellence. Below is a list of the main equipment and machinery used in our production facilities (switchgears & switchboards) in Kabul and Herat:

- CNC Punching Machine
- Hydraulic Press Brake
- Hydraulic Swing-Beam Shear
- 6-Stage Pre-treatment System for optimal surface preparation
- Electrostatic Powder Painting Equipment for efficient coating
- CNC Laser Labeling Machine for precise labeling
- Busbar Cutting, Bending and Punching Machine
- Routine Tests Laboratory adhering to the latest IEC standards
- Painting Tests Laboratory in compliance with ISO standards



MV Withdrawable Switchgear (AMS)

Medium Voltage Air Insulated Switchgear for Primary Distribution, 24 kV up to 2500 A and 25 kA 3 Sec.

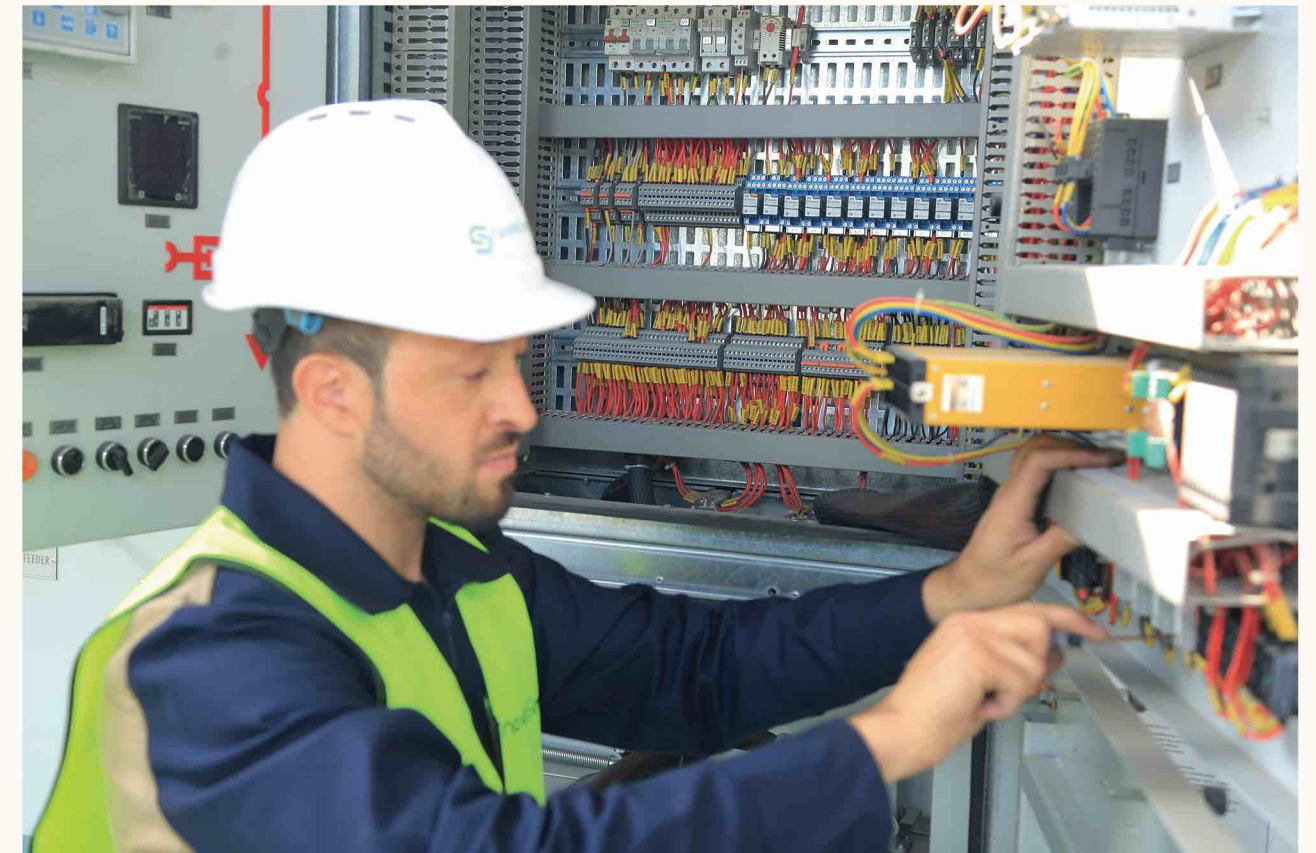
Novin Simia Company has secured a licensing agreement with experienced, renowned international manufacturers to produce the "Air Insulated MV Switchgears AMS Series."

General Features

- Loss of service continuity category: LSC2B
- Partition class: PM
- Circuit Breaker/Contactor racking-in/out with closed door
- Internal Arc Classified (IAC): AFLR
- Construction with pre-galvanized sheets
- Fully Type Tested to IEC/AS 62271-200 & Annex A

Standards

- a) IEC 62271-200
- b) IEC 62271-100
- c) IEC 60470
- d) IEC 62271





Test Laboratories

Novin Simia is equipped with advanced electrical and painting test laboratories, specifically designed to conduct routine tests on our manufactured products. We are fully capable of performing both electrical and physical tests and inspections in accordance with the latest international standards.

Electrical Test Laboratory

This laboratory is equipped with a comprehensive range of equipment, testing devices, and specialized expertise essential for testing of medium and low voltage products. It is responsible for conducting electrical and mechanical routine tests and inspections based on IEC standards for each product. These tests ensure that components, manufacturing processes, and finished products comply with established reference standards and specifications.





Our Products for Da Afghanistan Breshna sherkat (DABS)

Our products have been accepted and utilized in numerous projects across both public and private sectors throughout Afghanistan. We have directly supplied the following products to DABS under multiple contracts:

- DABS-HRT-1394-NCB-10: 800 Unites of LV Meter Boxes
- NPA/DABS/95/NCB/G-1320: 181 Unites of LV Distribution Switchboards (250–1250 A)
- NPA/DABS/97/G-2072/NCB: 33 Unites of LV Distribution Switchboards (160–1600 A) and 1235 Units of LV Meter Boxes
- DABS/97/LNB/G-116: 12 Unites of LV Switchboards (100–630 A) and 176 Units of LV Meter Boxes

“This is to certify that Novin Simia Company has completed all its obligations under the contract. DABS authorities appreciate their commitments towards completion of the contract.”

M. Ilyas Samady, Chief Financial Officer / Accounting Manager
Da Afghanistan Breshna Sherkat

Kabul South West Distribution Network Project

In this project, DABS, as the executing agency and end user, aimed to upgrade the distribution networks in underdeveloped areas to enhance power quality across the country. Novin Simia was responsible for the design and manufacturing of LV distribution switchboards and meter boxes for the project. These products successfully passed type testing at the TUV laboratory.

- 263 Units of LV Distribution Switchboards (250-1000 A) for Transformers (160-630 kVA)
- 4487 Units of LV Meter Boxes
- Number of Consumers: 35,000 Families

Client: Da Afghanistan Breshna Sherkat (DABS)

Source of Fund: Asian Development Bank (ADB)

Prime Contractor: FEKA Construction Industry and Trade Inc.

Location: Dasht-e-Barchi, Kabul, Afghanistan

Project Duration: May. 2015 – Nov. 2016

“FEKA is fully satisfied with quality of products and response time of Novin Simia and would recommend this company for any similar contract. Novin Simia could complete the contracted scope of works within the specified time and budget. The company has an outstanding manufacturing capability in Kabul with high quality production tools and equipment.”

Emrah Boso, Project Manager

FEKA Construction Industry and Trade Inc.

Novin Simia

Pre-Stressed Spun Concrete Poles

Novin Simia has established a modern spun concrete pole manufacturing facility at Sanaya Sabz Industrial Parks, located in the Deh Sabz district of Kabul. The facility features 1,200 m² of covered manufacturing space, 200 m² of office space, and an additional 1,300 m² dedicated for storage and testing of manufactured products. It is fully equipped with the necessary testing devices to conduct Factory Acceptance Tests (FAT) on the manufactured products.

This facility produces high-quality, tested concrete power poles designed for medium voltage distribution networks.

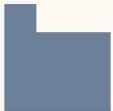
Key Benefits of Spun Concrete Poles:

- Quick and Easy Installation – Streamlined installation process minimizes both time and labor costs.
- High Strength – Exceptional strength combined with lightweight design facilitates efficient transportation and installation.
- Maintenance-Free – Resistant to rusting, rotting and degradation.
- Durable – Designed to withstand extreme environmental conditions.
- Long Lifespan – 50 to 100 years of reliable performance.
- Cost-Effective – Long-term savings by eliminating the need for maintenance and frequent replacements.
- Environmentally Friendly – Made from inert materials, recyclable, safe for direct burial, and chemical-free.



Projects Completed with Novin Simia Poles

- NPA/DABS/97/G-2289/NCB: Supply of 11,641 Pcs Spun Concrete Poles for DABS.
- CapEx: 003/2024-GO-L1: Supply of 1,208 Pcs Reinforced Concrete Poles for Construction of 20/0.4 kV Overhead Lines in Badakhshan.
- MWE/0094/ICB: Supply of 1,108 Pcs Spun Concrete Poles for Hydro Electric Power Plant Project in Chack District, Wardak Province.
- 20 kV Distribution Network from Asqalan Substation to two ANSF Bases in Kunduz Province.
- 20 kV Distribution Network from Brishnakot Substation to ANSF Bases in Darulaman, Kabul.
- 20 kV Distribution Network from Qasaba Substation to Central Supply Depot (CSD) in Kabul.



Spun Poles Specifications

Catalog Code	Pole Length (m)	Above Grade Height (m)	Top Dia. (mm)	Bot. Dia. (mm)	Concrete Pole Top Force (kg*f)
SP09	9	7.7	265 ~175	400 ~310	800 ~300
SP12	12	10.2	445 ~220	625 ~400	3000 ~400
SP15	15	12.9	445 ~265	670 ~490	3000 ~600
SP18	18	15.5	445 ~310	715 ~580	2500 ~1000

Special Types

Catalog Code	Pole Length (m)	Above Grade Height (m)	Top Dia. (mm)	Bot. Dia. (mm)	Concrete Pole Top Force (kg*f)
SP10	10	8.6	265 ~175	415 ~325	800 ~300
SP14	14	12	445 ~220	655 ~430	3000 ~600
SP16	16	13.8	445 ~265	685 ~505	3000 ~1000
SP21	21	18	400	715	2000 ~1000
SP24	24	20.6	335	715	1800 ~1000
SP27	27	23	310	715	1200 ~1000



Renewable Energy

- Solar PV Power Plants
- Wind Farms

Vision

The dwindling resources of fossil fuels and their associated greenhouse gas emissions, which significantly contribute to global warming, are prompting nations to shift toward Renewable Energy Sources (RES). Among the RES, Photovoltaic (PV) systems stand out as one of the most economically viable options. In recent years, the cost per MWh of PV systems has dropped substantially, enabling them to compete with conventional technologies like Coal and Nuclear.

In countries like Afghanistan, where transmission and distribution networks are not well developed and parts of the population lack access to the national grid, investing in PV systems can often be more effective and sustainable than relying on centralized conventional technologies.

As a result, to enhance citizens' access to electricity, the Government of Afghanistan (GoA) and its international partners are promoting the deployment of PV systems across the country. Thus, this makes Afghanistan an ideal location to initiate renewable energy projects.

Objectives

Novin Simia Company aims to play a pivotal role in Afghanistan's Renewable Energy projects. To achieve this, we will forge technical partnerships with international companies that have proven experience in the design, implementation, and commissioning of renewable energy projects. Furthermore, we have assigned a dedicated team of skilled professionals for renewable energy projects.

Novin Simia

Clients and Impactful Collaborations

Our products and services have been utilized in numerous projects funded by a variety of donors. We are privileged to have served distinguished clients and donors, including the Ministry of Energy and Water (MEW), Da Afghanistan Breshna Sherkat (DABS), the World Bank (WB), the Asian Development Bank (ADB), and various national and international organizations. We sincerely appreciate the trust our clients placed in us; their positive recommendations and certificates evidence our commitment to excellence.

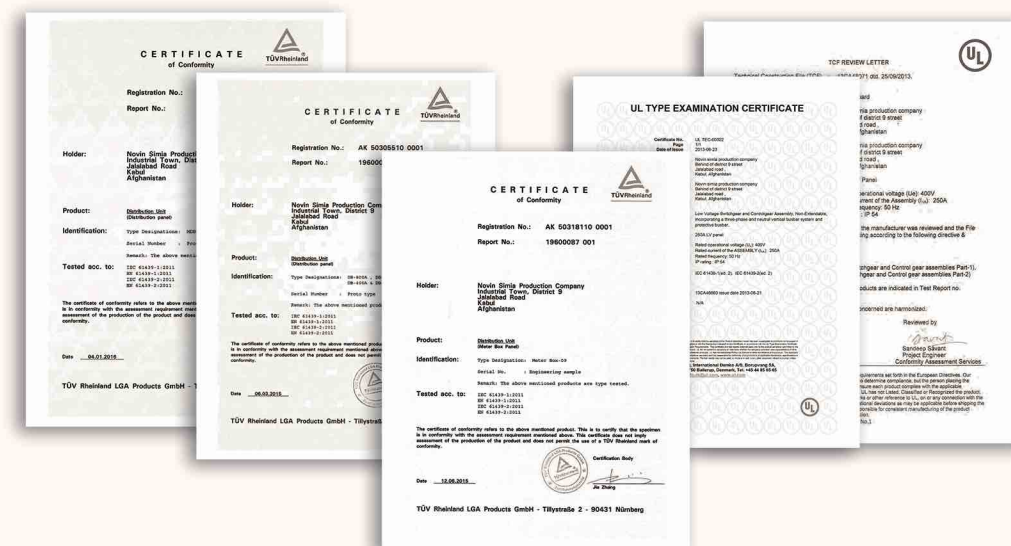


Member of:



Type Test Certifications

Our electrical products have earned UL, CE and TUV prestigious certifications, following successful type testing in renowned international laboratories. These certifications demonstrate our commitment to quality, safety and global standards.



Our History

Novin Simia's remarkable journey began in 2008 with its first production facility in Herat, Afghanistan. We've since expanded, fueled by strategic investments and collaborations. Key milestones include:

- 2010: Opened second production facility in Kabul
- 2016: Commenced substation projects
- 2017: Established test, commissioning and in-house design teams
- 2019: Inaugurated third and fourth facilities in Kabul
- 2024: Initiated 500 kV Substation Project (Full EPC)

Today, Novin Simia is a premier EPC contractor and trusted manufacturer in Afghanistan, committed to excellence, innovation, and customer satisfaction.