

Newsletter

Summer 2026 No. 01

CONSULTING ENGINEERS
MONENCO IRAN

**Market
Message**

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News



موننکو ایران
Monenco Iran

Monenco Iran Consulting Engineers
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Agrivoltaics



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Agrivoltaics (AV), also known as Agri-PV or Agri-solar, is an integrated land-use approach that enables the simultaneous production of crops and photovoltaic (PV) electricity on the same piece of land. This approach has attracted increasing attention as a sustainable land-use strategy to address the growing global demand for food, renewable energy, and climate resilience. By integrating elevated or strategically spaced solar panels with agricultural activities, land-use efficiency is enhanced while competition between energy production and food security is reduced. The implementation of agrivoltaic systems offers multiple environmental, agricultural, and economic benefits. Partial shading provided by PV panels can moderate canopy temperature, reduce soil moisture evaporation, and improve water-use efficiency, especially in arid and semi-arid regions.

Investigations have shown that shade-tolerant crops can maintain or even enhance performance under appropriately designed agrivoltaic systems.

Moreover, it can be claimed that this approach provides an additional revenue stream through electricity generation for farmers, hence increasing farm resilience against fluctuating agricultural markets and climate-related risks.



From an environmental perspective, agrivoltaics lead to greenhouse gas emission reduction by expanding renewable energy deployment without requiring additional land conversion.

Seen from the other way round, it must be said that the higher capital cost associated with elevated mounting structures and specialized installation techniques represents a significant barrier to large-scale adoption.

Overall, agrivoltaics represents a promising solution for addressing the interconnected challenges of food production, renewable energy generation, and sustainable land management. As technological innovations continue to reduce system costs and policy frameworks become more supportive, agrivoltaic systems are expected to play an increasingly important role in achieving climate mitigation objectives and improving the sustainability of agricultural landscapes.





Engineering Services Begin for the 120 MW JBB ALI Wind Farm Grid Connection Project in Oman

Description: Engineering activities have commenced for the grid connection of the 120 MW JBB ALI Wind Farm in Oman. The project was awarded by China Energy Engineering Corporation (CEEC), the EPC contractor of the wind farm, following a technical evaluation of engineering capabilities and international project experience. It is worth mentioning that the proposal submitted by Monenco Iran was accepted by the Chinese company CEEC as the main contractor. This process was done after evaluating Monenco Iran in terms of technical potential, executive capabilities, and professional background; ultimately, the project engineering services were awarded to this company.

The scope of work includes the detailed engineering design of the 33/132 kV wind farm substation, the 132 kV transmission line connecting the facility to the Oman Electricity Transmission Company (OETC) network, and comprehensive Grid Connection Studies to ensure secure and reliable integration with the national transmission system.



**پروژه نیروگاه بادی 120 مگاواتی عمان
JBB ALI**

طراحی و مهندسی پست برق و خط انتقال 132 کیلوولت
مطالعات اتصال به شبکه OETC

120 MW ظرفیت نیروگاه
33/132 kV سطح ولتاژ پست
132 kV خط انتقال
مطالعات اتصال به شبکه OETC

طراحی خط انتقال 132 کیلوولت

مسیر خط انتقال 132 کیلوولت جهت اتصال به شبکه OETC

MONENCO Consulting Engineers
مهندسین مشاوران بین‌المللی

شبکه عمان OETC

نیروگاه بادی 120 MW
پست برق 33/132 kV
خط انتقال 132 kV
مطالعات اتصال به شبکه
رعایت استانداردهای بین‌المللی

JBB ALI Wind Power Project
120 MW
Sultanate of Oman



Feasibility Study for Electrical Interconnection Between Iran and Qatar Launched

Description: A feasibility study for the electrical interconnection between Iran and Qatar has been launched to evaluate the technical, economic, and implementation aspects of establishing a power link between these two countries.

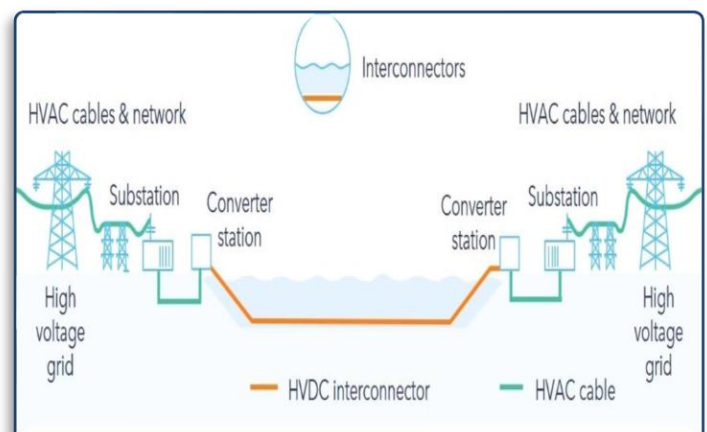
In this project, various interconnection scenarios, transmission capacities, applicable technologies, system stability, operational requirements, economic feasibility, and compliance with international standards will be comprehensively evaluated.

The main objective is to identify the most efficient and reliable technical solution for integrating the two national power systems.

The project is being implemented for KAHRAMAA (Qatar General Electricity & Water Corporation) in partnership with Monenco Iran Consulting Engineers and Energoprojekt Entel Ltd.



This project is recognized as one of the region's strategic and high-priority energy initiatives; the project will serve as a key milestone in connecting Iran's power system to the GCC Interconnection Authority (GCCIA) network. It will also facilitate Qatar's electrical interconnection with neighboring countries, including Afghanistan, Pakistan, and Iraq, through Iran, further strengthening Iran's role as a regional energy hub.





Engineering Services Awarded for BESS Substations and Grid Connection Lines in Oman

Description: Engineering services for the construction of substations and grid connection transmission lines associated with Battery Energy Storage Systems (BESS) have been officially awarded to Monenco in Oman. The project, commissioned by leading stakeholders in Oman's power sector, represents one of the country's prominent initiatives supporting the energy transition and the development of sustainable power infrastructure.

The scope of services includes the engineering design of substations and transmission lines required to connect Battery Energy Storage Systems (BESS) to Oman's power grid. Once completed, the project will play a significant role in improving grid stability, mitigating renewable generation intermittency, enhancing system reliability, and reducing dependence on fossil-fuel-based electricity generation.

Project execution will be supported by multidisciplinary engineering teams from Monenco Oman, together with specialists in high-voltage substations, transmission lines, and other technical and support disciplines. Their combined expertise will ensure that the project is delivered in accordance with international engineering standards and the technical requirements of Oman's electricity sector.

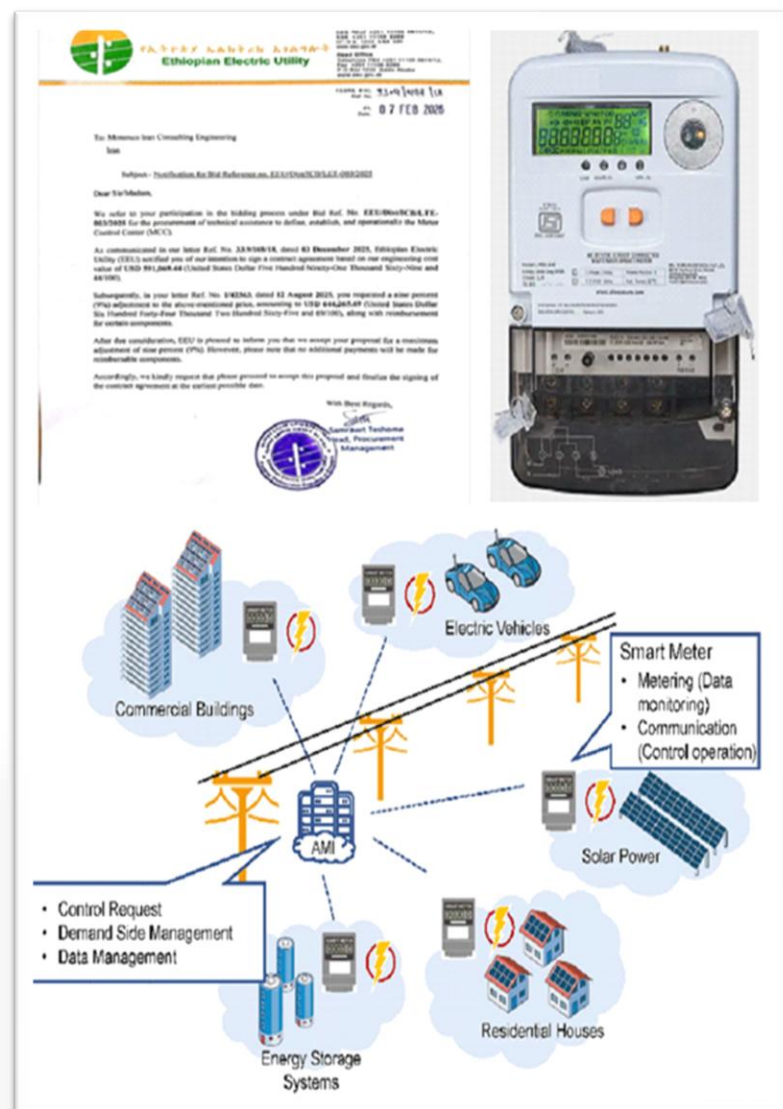


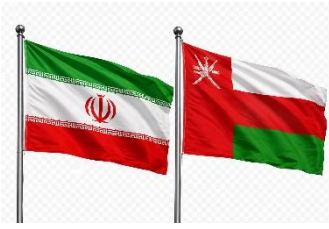


Monenco Awarded Engineering Consultancy Contract for Ethiopia's Smart Meter Control Center

Description: Monenco Iran Company has been awarded the engineering consultancy contract for the "Technical Assistance to EEU to define, establish and operationalize the Meter Control Center (MCC)" by the Ethiopian Electric Utility (EEU).

It is worth noting that this project was defined based on the successful performance of the power generation network group and the smart systems team in executing ongoing projects, as well as the identification of the EEU's strategic needs by Monenco specialists. Following the company's proposal to both EEU and the World Bank, the initiative was officially defined as a national development project and secured the necessary funding for implementation.





Monenco Awarded Strategic Grid Connection Study for New UPA Facilities in Oman

Description: Monenco has been awarded the contract to perform Grid Connection Studies for the new facilities of United Project Achievement (FZC) LLC (UPA) company in Oman. This project will be delivered by specialists from the Power System & Energy Studies Center of Monenco Iran, Monenco Oman, and multidisciplinary engineering teams.

According to this contract, Monenco will be responsible for conducting the grid connection studies and obtaining the required grid connection approval from the Oman Electricity Transmission Company (OETC).

It must be noted that the project has been awarded through direct negotiation, and this success was achieved based on the client's high level of satisfaction associated with previous engineering services, technical excellence, responsiveness, and professional project delivery.





International Consortium Awarded Tajikistan Smart Grid and Energy Loss Reduction Project

Description: An international consortium comprising Iranian engineering expertise (on behalf of the ICT deputy of Monenco Iran Consulting Engineers company) and GOPA Tech GmbH (Germany) has been awarded the Energy Loss Reduction Project in the Republic of Tajikistan following a competitive international tender. This consortium ranked first among the five shortlisted international consulting firms, reflecting its technical capabilities and extensive experience in smart grid and digital utility infrastructure projects. This project is commissioned by Shabakahoi Taqsimoti Barq (STB), Tajikistan's Electricity Distribution Company, and it is considered one of the most important digital transformation initiatives in the country's power sector.



Monenco Iran Recognized for Excellence in Delivering Strategic Power Infrastructure Projects

Monenco Iran has been honored with a Certificate of Appreciation and an Official Letter of Commendation from Gohar zamin Mining and Industrial Company, one of Iran's leading mining and industrial enterprises, in recognition of its outstanding contribution to the successful delivery of strategic power infrastructure projects.

The recognition was awarded in accordance with the successful engineering, implementation, and timely energization of the 400/33 kV Bardsir Substation and the associated 400 kV Transmission Line in Bardsir, Kerman Province.

Certificate of Appreciation

Dear Dr. Ghelichi,

Managing Director of Monenco Iran Company

Greetings, In appreciation of your sincere efforts and diligent endeavors of that company's managers and personnel for valuable engineering and supervision Over the construction of 400/33 kV Substation and 400kV transmission line, and for the successful completion of this vital project without delay, while fully observing HSE principles, improving project quality, reducing costs, and increasing the reliability and continuity of the region's electricity network, we hereby express Our gratitude and appreciation.

We wish you continued success and prosperity in Serving the people of Iran.

Ali Akbar Akbari

**Deputy CEO and Bardsir site Complex Manager –
Goharzamin Mining and Industrial company**





132/20 kV Mile Nader Wind Farm Substation Successfully Energized

Description: The 132/20 kV Mile Nader Wind Farm Substation, located in Sistan and Baluchestan Province, was successfully energized by Monenco Iran Consultancy on April 29, 2026, marking a significant milestone in the development of renewable energy infrastructure in Iran.

The substation serves as the primary connection point for the Mile Nader Wind Farm to the national transmission network. It plays a key role in increasing renewable energy generation, improving grid stability, and supporting the country's transition toward clean energy resources.

The project was executed through coordinated engineering, construction, commissioning, and testing activities involving multiple technical disciplines. Its successful energization reflects effective project management, high engineering standards, and close cooperation among all project stakeholders.



It is worth mentioning that the project was implemented in collaboration with the Sistan and Baluchestan Regional Electric Company, MAPNA Renewable Energy Company, Nassb Niroom Company, and specialized engineering teams responsible for high-voltage substations, urban planning, project control, construction supervision, and supporting technical services.





Electromechanical Engineering Studies Commence for Tehran–North Freeway Alborz Tunnel

Description: Engineering studies for the electromechanical systems of the Western Alborz Tunnel and the connecting road linking the Chalous Road to the northern portal of the Alborz Tunnel in Section 2 of the Tehran–North Freeway have officially commenced.

This success can be a clear symbol of the employer's deep trust in Monenco Iran's specialized knowledge, executive experience, service quality, organizational agility, and engineering capabilities in complex and strategic national projects.

It should be noted that this project was awarded following the successful completion of previous engineering services on the Tehran–North Freeway. Moreover, this project reflects continued confidence in the quality and technical capabilities demonstrated during earlier project phases. Upon completion, the project is expected to improve operational safety, traffic management, tunnel reliability, and the overall performance of one of the country's most important transportation infrastructures.





HAZOP and HAZID Studies Successfully Completed for Khorramabad II Power Plant

Description: Comprehensive HAZOP (Hazard and Operability Study) and HAZID (Hazard Identification) assessments to improve design quality, reduce process risks, and increase project safety levels have been completed for the Khorramabad II Power Plant. These studies were conducted in cooperation with MAPNA Power Plant Development Company (MD2) and MAPNA Turbine Engineering & Manufacturing Company (TUGA), focusing on systematic identification of process hazards, operational risks, equipment reliability, and safety performance.

In this project, engineering services including the design of Balance of Plant (BOP) systems, power plant ancillary equipment, and all construction activities have been carried out. In addition, the design of electrical and mechanical systems, ancillary facilities, and infrastructure required for operation has been implemented in accordance with technical standards and project requirements. It is worth mentioning that the completion of the HAZOP and HAZID studies can be a significant milestone in ensuring safe construction, commissioning, and long-term operation of the power plant while meeting internationally recognized process safety requirements.





42 MW Khatounabad Medium-Scale Power Plant Successfully Synchronized with Iran's National Grid

Description: The 42 MW gas-fired unit of the Khatounabad Medium-Scale Power Plant was successfully synchronized with Iran's national power grid, marking another milestone in strengthening the country's power generation infrastructure.

The project was developed for the National Iranian Copper Industries Company and constructed by MAPNA Power Plants Construction & Development Company (MD1). The engineering scope included the complete design of the Balance of Plant (BOP) systems, auxiliary facilities, electrical and mechanical systems, civil works, and all supporting infrastructure required for safe and reliable plant operation.





Fiber Optic Network Development Master Plan of Fars Regional Electric Company Was Awarded to Monenco Iran

Description: A comprehensive Fiber Optic Network Development Master Plan has been launched to enhance the communication infrastructure supporting the regional power transmission network.

The project aims to assess the existing telecommunications network, identify future operational requirements, and develop a long-term roadmap for expanding fiber optic infrastructure in line with international utility communication standards.

A key strategic point about this project is the revision and expansion of the telecommunications master plan, based on modern technologies and recognized global standards.

This initiative will transform the Fars Regional Electric Company's communication infrastructure into a modern, resilient, and intelligent system capable of meeting the network's communication and critical data exchange needs over the next 15 years. Undoubtedly, the successful implementation of this project will mark a fundamental step toward enhancing grid stability, developing a reliable communication infrastructure, and advancing the nation's electric power industry toward a digital and smart future.



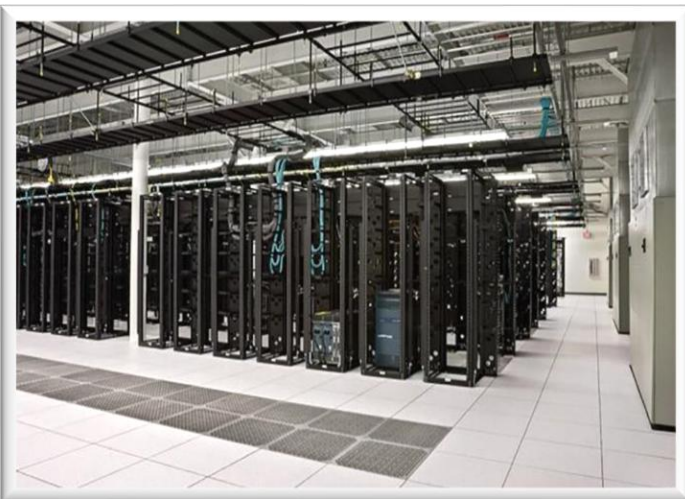


Consultancy Services Awarded for Hormozgan Regional Electric Company Data Center Development

Description: Consultancy services have been awarded to Monenco Iran for the design and construction supervision of the Data Center and Server Room Expansion Project at the Hormozgan Regional Electric Company.

The project aims to strengthen the digital infrastructure of Iran's power sector by developing a secure, scalable, and highly reliable data center capable of supporting the increasing demand for digital services and smart grid applications.

The project represents another step toward accelerating digital transformation and strengthening the technological infrastructure of Iran's electricity sector.





Second 183 MW Gas Unit of Neka Combined Cycle Power Plant Synchronized with the National Grid

Description: The second 183 MW gas-fired unit of the Neka combined cycle power plant was successfully synchronized with Iran's national power grid, marking another milestone in the country's power generation expansion program. This project was developed for the Thermal Power Plants Holding Company (TPPH) and executed by MAPNA Power Plants Construction & Development Company (MD1). Equipped with advanced MGT-70 gas turbine technology, the unit is capable of supplying electricity to more than 395,000 households. It can be said that this project demonstrates the successful collaboration between the project owner, engineering consultant, EPC contractor, and other stakeholders in delivering strategic power infrastructure.



Monenco Awarded Energy Savings Measurement and Verification Project in Sirjan

Description: Monenco has been awarded the Measurement and Verification (M&V) contract for assessing the energy savings achieved through the replacement of 10,000 BLDC motors with high-efficiency induction motors for residential evaporative coolers in Sirjan, under a contract with Gohar Energy Sirjan Company. It is worth mentioning that the project is designed to independently quantify and verify the actual energy savings delivered by the initiative in accordance with the internationally recognized International Performance Measurement and Verification Protocol (IPMVP).



Top Events in June



CIGRE PARIS SESSION 2026

Every two years, CIGRE delivers the world's foremost collaborative knowledge development and sharing program for the power system sector. Through extensive remote collaboration and periodic face-to-face events, experts from around the globe contribute to advancing the industry. This unique program culminates in the Paris Session – the leading international gathering for power system expertise.

Held in Paris in even-numbered years, the Session attracts around 9,000 participants from more than 100 countries, including over 3,600 international experts and decision-makers. Over the course of a week, delegates take part in:

160+ working meetings

30+ Study Committee sessions

800+ technical papers covering the full breadth of the power system

It is a one-of-a-kind interactive platform to exchange knowledge, debate challenges, and shape the future of energy.

Publication of CIGRE:

TB 987 - WG C4.68:

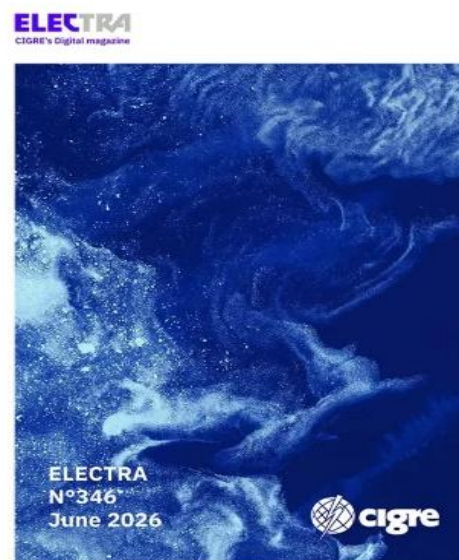
Electromagnetic Compatibility Issues in Modern and Future Power Systems



TB 988 - B4/B1/C4.73: Surge and Extended Overvoltage Evaluation of HVDC Cable Systems for Testing



ELECTRA, N° 346, June 2026



Monenco's Performance on the CASA-1000 Project was commended by the Energy Ministers of Iran and Tajikistan



Monenco Iran's engineering performance on the CASA-1000 project received high-level recognition from the energy ministers of Iran and Tajikistan during the official visit of Dr. Abbas Aliabadi, Energy Minister of the Islamic Republic of Iran, to the Republic of Tajikistan.

Monenco Iran Wins First Place at MAPNA Group's Third Design Thinking League

Monenco Iran has won first place in the "Learning Celebration" category of the Third MAPNA Group Design Thinking League, competing against 16 teams representing various MAPNA Group companies. This achievement highlights strong organizational, continuous learning, strategic thinking, effective collaboration, and a culture of innovation in the Monenco Iran company.



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موننکو لاء استشارات الهندسية

Al Khuwair, Muscat, Oman



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