



Energy Solutions and the Development of Solar Power Plant Industries in Iran

Introduction

Sharif Energy Solutions Development Group, building on the valuable experience of its shareholders and senior managers, who have played a key role in the construction of **over 600 megawatts of solar power plants** in Iran over the past decade, has identified the development of solar power plants as one of its core missions.

This group consists of an elite and capable team, including **two university faculty members**, **six medalists from national science Olympiads**, and **several top-ranked students from the national entrance exam (Konkour)**. Alongside this scientific talent, seasoned industry experts with impressive track records are also involved. Together, they provide engineering services in **EPC, design and consulting, project management (MC), and supervision**, actively contributing to the sustainable growth of the country's energy sector.

Experience, Expertise, and Key Achievements

The satisfaction of investors and clients from completed projects is a clear testament to the group's capabilities. Some of the key accomplishments and honors of the founders of Energy Solutions include:

- Continuous and effective scientific and practical involvement in the solar power plant industry since 2013
- Development of the silicon value chain since 2019
- Establishment of Iran's first silicon metal factory in 2022
- Launch of the country's first fully automated solar panel factory in 2017

The Beginning of a New Chapter

Energy Solutions, following a successful growth phase, has entered a new stage in the development of innovative industries and infrastructure for energy supply in Iran's industrial and mining sectors.

Building on extensive domestic and international experience, particularly across the steel and copper value chains, the company firmly believes that renewable energy represents one of the most critical economic, environmental, and geopolitical priorities of both today and the future.

The transition from fossil fuels to sustainable energy sources, including microgrid systems, is no longer optional but a pressing necessity. The pace of this shift by 2030 will play a decisive role in shaping the position of key players in these industries.



Current Opportunities in Iran's Solar Industry

The development of solar power plant industries in Iran is increasingly supported by regulatory frameworks, including the Fuel Consumption Optimization Law, Article 12 of the Law on Removing Barriers to Production, Article 16 of the Law on the Leap in Knowledge-Based Production, and the Law on Removing Barriers to the Development of the Power Industry. These have established solar energy as a foundational element in the renewable energy value chain.

Lower production costs (LCOE), significantly reduced construction timelines, and the environmental benefits of solar power plants have made this sector one of the most attractive investment opportunities. Targeted and intelligent support measures, alongside the country's severe and frequent energy shortages, are expected to drive sustainable and practical growth in the industry.

Our Mission

Today, the expansion of solar power plant businesses across various industries presents promising horizons. The mission of Energy Solutions is to design and implement creative and sustainable energy solutions, grounded in a knowledge-based, transformative, and development-driven approach.

Our goal is to combine technical expertise, elite human capital, and a sense of responsibility to play an impactful role in shaping the future of energy in Iran.



Recent Solar Power Plant Projects by the Energy Solutions Company

No.	Capacity MW	Investor	Employer	Contract Type	E	P	C	Site	Status	Date	Detail
1	20	Middle East	Araz	Cooperation	✓	✓		Khaf	Completed and handed over (Cooperation)	Jun 2024	Commercial purchasing consultancy
2	85	Pasargad Steel	Araz	Cooperation	✓	✓		Kovar	Completed and handed over (Cooperation)	Sep 2024	Commercial purchasing consultancy
3	11	Kani Godakht	Araz	Cooperation	✓	✓		Aspas	Completed and handed over (Cooperation)	Sep 2024	Commercial purchasing consultancy
4	200	Araz	Owner	EC	✓		✓	Islamabad Zahedan	Basic design and development phase	Dec 2024	Basic design delivery
5	14	Pak Energy	Owner	EC	✓		✓	Domak Zahedan	Design and development phase		Basic design delivery
6	7	Pak Energy	Owner	EC	✓		✓	Rafsanjan	Design and development phase		Basic design delivery
7	3	Energy Farm	Owner	E	✓			Sarbisheh	Design and Consulting		Design delivery
8	3	Creative Energy	Owner	EPC	✓	✓	✓	Borujen	Design and development phase		
9	7	Ring Field	Owner	E	✓			Emirate	Basic design handed over	Dec 2024	Micro grid
10	1	Private Sector	Sana	EC	✓		✓	Mahvelat	Contract handed over	Mar 2025	Design and Phase One Execution
11	10	Pistachio Karan	Sana	Supervision	✓			Rafsanjan	Project management plan delivered	March 2025	Management supervision and consultancy
12	5	Donya Copper	Sana	Review	✓			Meybod	Completed	Jan 2025	Design review
13	3	Talaashgaran Copper	Sana	E	✓			Rafsanjan	Under design	Sep 2025	
14	3	Saba Madan	Sana	E	✓			Rafsanjan	Under design	Sep 2025	
15	7	Kian Pershia Steel Pipes and Profiles	Owner	EPC	✓	✓	✓	Yazd	Design and development phase		Basic design delivery
16	2.5	Shahr Noshidani Mihan	Sana	E	✓			Islamshahr	Design	Mar 2025	
17	20	Rahab Electronic Commerce	Aftab	EC	✓		✓	Chabahar	Design and development phase		
18	3	Rooy Andood Kaveh Steel Complex	Aftab	E	✓			Saveh	Design and Consulting		Basic design delivery
19	2.5	Saghafi Copper Manufacturing and Trading	Owner	E	✓			Saveh	Design and Consulting		Design delivery
20	8	Kian Pershia Steel Pipes and Profiles	Owner	EPC	✓	✓	✓	Boroujen	Design and development phase		
21	10	Rahab Electronic Commerce	Aftab	E	✓			Fars Bakhtegan	Design and development phase		



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22	200	Tourism Bank	Lavan Energy	E	✓			Khormoj	Design		Basic design delivery
23	10	TETCO	Ofogh Toos	E	✓			Toos	Design, consulting and supervision		Basic design delivery
24	1	Rafsanjan Energy	Mana Energy	E	✓			Rafsanjan	Design, supervision		
25	1	Iranian Saba Energy	Mana Energy	E	✓			Rafsanjan	Design, supervision		
26	7	Amir Energy Khalig Fars	Mana Energy	E	✓			Boushehr	Design, supervision		



Key Shareholders' Background of the Company

Solar Power Plant Value Chain Development Projects

No.	Project Name	Capacity	Model	Investor	Location	Completion	Duration
1	Off-grid Solar Plants	1.5 MW	E	Ministry of Energy	Khuzestan, Kerman, Hormozgan	Aug 2013	12 months
2	Grid-connected and off-grid solar power plants	1.5 MW	EPC	Ministry of Energy	Khuzestan, Kerman, Markazi, Ardebil, Isfahan, etc.	Mar 2016	18 months
3	Establishment of Parto Energy Co. (Member of the Sharif University of Science and Technology Park.)	100 MW	EPCF	11 people from Sharif and Tehran universities graduated	Tehran	Jan 2017	3 years
4	Consultant at Taban Solar Panel Factory	250 MW/yr	EPCF	Hikmat Bank and Attar Group	Shiraz	Aug 2017	6 months
5	Ideation for establishing a workshop for solar panel frame production and solar panel mounting structures	1000 t/yr	EPC	Bespar Gostar & Mahan Energy	Shiraz	Jun 2018	2 months
6	Eghlid Power Plant Feasibility	10 MW	EPCF	Taban Co.	Eghlid (Fars)	Sep 2018	7 months
7	Abadeh Power Plant Establishment	10 MW	EPCF	Taban Co.	Bahman (Fars)	Nov 2018	8 months
8	Ideation for the Establishment of Baft Power Plant	10 MW	EPCF	Taban Co.	Baft (Kerman)	Jul 2019	10 months
9	Kajmarch Power Plant	10 MW	EPCF	Attar Group, Sam Group	Kahmarch (Fars)	Jan 2021	1 year
10	Kahmarch Power Plant Establishment	7 MW	EC	Razi Textile Co	Abhar (Zanjan)	Nov 2019	8 months
11	Khaanf Power Plant Feasibility	5 MW	E	Saba Niroo Toos	Khaf (Khorasan Razavi)	Jun 2020	5 months
12	Eghlid 2 Power Plant	1 MW	EP	Mr. Hossein Pour	Eghlid (Fars)	Nov 2018	3 months
13	Technical and managerial team for establishing a silicon metal production factory	14,000 t/yr	EPC	Silicon Araz Industry	Tehran, Khoy	2023-2024	4 years