



No.GISP-2025/OP-I/370
BOARD OF REVENUE, PUNJAB
PROVINCIAL DISASTER MANAGEMENT AUTHORITY
152-B, Noon Avenue, New Muslim Town, Lahore.
Dated 3rd June 2025.

To,

1. All Divisional Commissioners in Punjab.
2. All Deputy Commissioners in Punjab/ Chairmen DDMA.

Subject: **IMPLEMENTATION OF GUIDELINES / REGULATORY FRAMEWORK FOR SAFE AND WEATHER-RESILIENT INSTALLATION OF SOLAR PANELS / SOLAR ENERGY SYSTEMS IMMEDIATE COMPLIANCE REQUIRED.**

I am directed to refer to the Energy Department's letter No. SO (T&P)/ED/21-144/2025 dated 27th May, 2025 (copy enclosed), wherein comprehensive guidelines and a regulatory framework have been issued for the safe, weather-resilient, and standardized installation of solar panels and solar energy systems across the province.

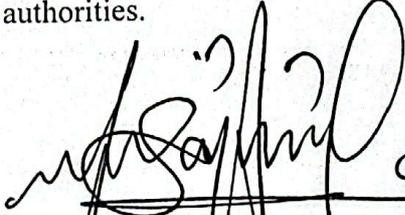
2. As you are aware, the devastating thunderstorm that occurred on 24th May 2025 resulted in the tragic loss of multiple lives, injuries to several individuals, and significant damage to public and private infrastructure. According to PDMA Punjab's preliminary assessment, a major contributing factor to this destruction was the collapse of poorly installed and structurally unsafe solar PV systems, particularly on rooftops of residential, commercial, and institutional buildings.

3. In response to this alarming situation, the Energy Department, in consultation with PDMA Punjab and relevant stakeholders, has formulated detailed safety instructions for users and installers of solar rooftop systems. These instructions are aligned with the national framework provided by the Alternative Energy Development Board (AEDB), and include essential safety protocols, installation standards, and the responsibilities of certified installers. The safety guidelines are publicly available in English and Urdu on the official website of the Energy Department (www.energy.punjab.gov.pk), and have also been attached herewith as **Annex-A** for immediate reference and implementation.

4. You are, therefore, requested to take the following urgent measures without delay:

- **Ensure the dissemination** of the attached SOPs to all relevant stakeholders, including building owners, solar panel vendors, civil society organizations, and certified solar energy installers.
- **Direct the municipal corporations, tehsil councils, building control authorities, and local development authorities** to strictly enforce compliance with the regulatory guidelines during any ongoing or future solar installations.
- **Mobilize field staff** under your control to initiate a rapid assessment of solar installations in vulnerable public buildings (schools, hospitals, offices, etc.) and take immediate corrective actions where needed.
- **Initiate awareness campaigns** through local media, mosques, community leaders, and district information officers to educate the general public about the importance of safe and certified solar installation.

5. Coordinate with PDMA and the Energy Department for any technical guidance, clarification, or training support required by district authorities.


03/06/2025
(NISAR AHMED SANI)
DIRECTOR OPERATIONS
PROVINCIAL DISASTER MANAGEMENT
AUTHORITY

CC:

1. Senior Member Board of Revenue / Relief Commissioner, Punjab.
2. Secretary, Housing and Urban Development Department, Punjab.
3. Secretary, Local Government & Community Development Department, Punjab.
4. Secretary, I&C, S&GAD, Lahore.
5. All Development Authorities in Punjab.
6. Additional Secretary (Staff) to Chief Secretary, Punjab.
7. Director General, PDMA Punjab.
8. Additional Director General (Ops & DRR), PDMA Punjab.



No. SO (T&P)/ED/21-144/2025 -854

GOVERNMENT OF THE PUNJAB
ENERGY DEPARTMENT
8th Floor, EFU House, Jail Road, Lahore

Dated Lahore the 27th May, 2025

DG PDMA	
To	
ADG	
Dir Ops	
Dir (ARC)	
Dir South	
Dir Tech	
SAO	
AD Admin	
AD F&P	
AD Ops	
AD Tech	
AD Legal	
Pr. Officer	
AD DDMA	
PRO	
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Director General,
Provincial Disaster Management Authority,
Board of Revenue, Lahore.

Subject:

REQUEST FOR ISSUANCE OF GUIDELINES / REGULATORY FRAMEWORK FOR PROPER AND WEATHER-RESILIENT INSTALLATION OF SOLAR PANELS / SOLAR ENERGY SYSTEMS.

This is with reference to your letter No. general 2025/46/Coord-I dated May 26, 2025.

2. In the letter under reference, it is mentioned that during the recent thunderstorm on May 24, 2025, multiple casualties, injuries and sizeable loss to property were caused. As per your initial assessment, one of the contributors to above loss was structural collapse of poorly installed solar systems including roof top solar installations.

3. With regard to the above, it is important to mention that number of residential, commercial, agricultural and industrial users of electricity have installed solar PV systems. For this purpose, the Alternative Energy Development Board (AEDB), Government of Pakistan (now Private Power & Infrastructure Board) has already issued AEDB Net Metering Certification Regulations, 2021 for certification of solar PV system installers in Pakistan. These regulations specifically provide obligation of the Certified Installers. Further, AEDB has Net-Metering Reference Guide for Electricity Consumer and Installers. This Guide provides the mandatory safety requirements with respect to installation of solar PV systems, to be complied by the Certified Installers. The above Regulations and Guide are available at PPIB website www.ppib.gov.pk.

4. Regardless of the above, it is agreed that safety of human life and property is a joint responsibility of all; specially the public functionaries. In this regard, Energy Department, Government of Punjab has prepared general Safety Instructions for Users of Solar Rooftop System. These instructions are attached as **Annex-A** for your ready reference. Energy Department has uploaded these instructions on its website (www.energy.punjab.gov.pk), in English and Urdu, for public awareness.

27/05/25

Additional Secretary (Admin)
Energy Department

C.C:

1. SMBR / Relief Commissioner, Punjab, Lahore
2. Additional Secretary (Staff) to Chief Secretary, Punjab

PS TO DG PDMA
Dy. No. 1981
Date 30/5/25

SAFETY INSTRUCTIONS FOR USERS OF SOLAR ROOFTOP SYSTEM

Protecting your solar rooftop system against extreme weather is crucial to ensuring safety, system longevity, and continued performance. Here are some general & weather-related guidelines for maintenance & safety:

A. General Tips for All Weather Conditions

1. Professional Installation – Procure services of AEDB certified installers to ensure professional system design.
2. Safety Requirements – Ensure that panels are properly mounted, sealed, and structurally reinforced.
3. Insurance Coverage – Consider procuring an insurance that covers solar panels and associated equipment for weather-related damage like hail, wind, and lightning.
4. Regular Maintenance - Schedule annual inspections to check for wear, corrosion, or loosening of mounts and electrical components.

B. High Winds & Storms

1. Secure Mounting - Use wind-rated mounting systems; verify with your installer that your system complies with local wind zone codes. The PV modules should be attached to the mountings by stainless steel nut bolts using SS spring washers.
2. Roof Anchoring - Consider wind storm safe anchors or extra brackets in storm-prone regions. The mountings itself should be properly secured with base/floor to ensure it can withstand wind storms and other climatic vagaries.
3. Trim Nearby Trees - Prevent falling branches from damaging panels.
4. Storm Mode (If Available) - Some smart inverters or battery systems offer a “storm mode” to protect the electronics during grid outages.
5. Sturdy Cables - The PV module cables should be properly secured using proper sized ties and not tied with metal wire or ordinary string.

C. Floods, Heavy Rain and Hail Storm

1. Elevate Electrical Components - Keep inverters, batteries, and meters off the ground or install them on raised platforms.
2. Waterproof Housing - Ensure outdoor junction boxes and conduit are waterproof (IP65 or higher rating).
3. Proper Drainage - Make sure gutters and downspouts aren't blocked and your roof's drainage system is working well.
4. Hail-Resistant Panels - Choose panels with high hail-impact ratings (typically tempered glass, UL 61730 or IEC 61215 certified).

D. Extreme Heat & Fire Risk

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- To
1. **Fire-Resistant Materials** - Use non-combustible mounting hardware and Class A fire-rated panels.
 2. **Clear Debris** - Regularly remove dry leaves, twigs, or bird nests under or around the panels.
 3. **Monitoring System** - Use remote monitoring tools to detect abnormal temperature spikes or voltage drops.

E. Lightning Protection

1. **Grounding** - Ensure your solar system is properly grounded to direct lightning safely into the earth.
2. **Surge Protectors** - Install surge protection devices on the inverter and charge controller to guard against power spikes.

Emergency Plan

- 27/05/25
- *Know how to shut down your solar system safely in case of emergency.*
 - *If you have a battery backup, understand how it works during outages.*
 - *Keep your inverter's and battery system's manual accessible.*

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