

FICHTNER

The Green Loan Program, Women-led households and Enterprises **ESHS** Yerevan, 25.03.2024

Promotion of Renewable Energies (Accompanying Measure) - Phase VI (GAF-RE)









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FICHT#-7757S01 FICHTNER | 2

Health and Safety

First Aid kit

- The First Aid kit shall be provided at project site.
- The kit should at least contain necessary medicines with valid expiration date.



Personal Protective Equipment (PPE)

The minimum PPE set shall include:

- > Safety helmet
- Gloves
- ➤ Hi-visibility vest
- > Safety shoes (steel cap toe)
- Harness working at height
- Mask/Respirator excavation, dusty conditions
- > Etc









Compliance of ESHS – housekeeping

Housekeeping refers to Environmental and Health and Safety aspects that:

- Reduce potential for accident and incidents
- Ensure long-term gains vs short-term.
- Reduce exposure to penalties and financial costs.

Good Housekeeping	Poor Housekeeping
Waste sorted and stored appropriately	Fly waste all over property and surrounds
Bunded hydro-carbons	Oil spills, wastage resulting in costs
Good storage = good stock keeping	Poor storage = excess purchases and wastage
Better moral	No care attitude

Housekeeping important for local and International Regulations and Standards.

Waste Management on and off site

Construction period – solid domestic waste

Acceptable bin



Bin – loose waste



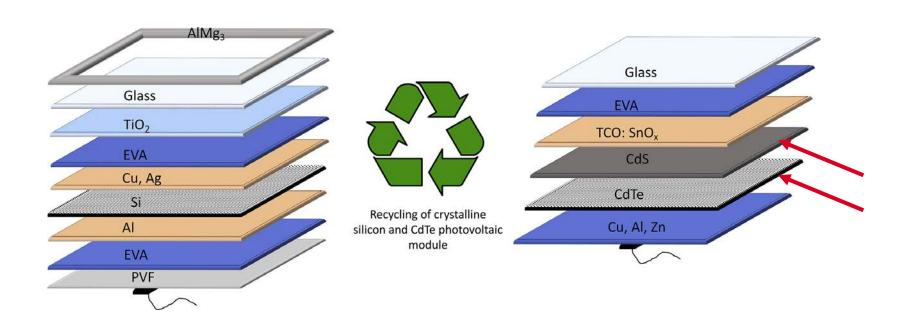
Waste left uncleared





PV module disposal and recycling

Studies have shown the heavy metals in solar panels — namely **lead** and **cadmium** — can leach out of the cells and get into groundwater, as well as affect plants. These metals also have a record for detrimental effects on human health. Lead is commonly known to impair brain development in children, and cadmium is a carcinogen.



PV module disposal and recycling

Sample of damaged PV modules

Broken glass



Broken glass



Temporary storage of broken panels, wrapped





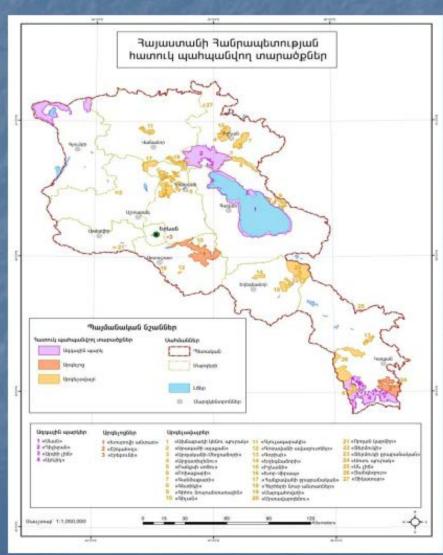
SPECIALLY PROTECTED NATURE AREAS OF ARMENIA

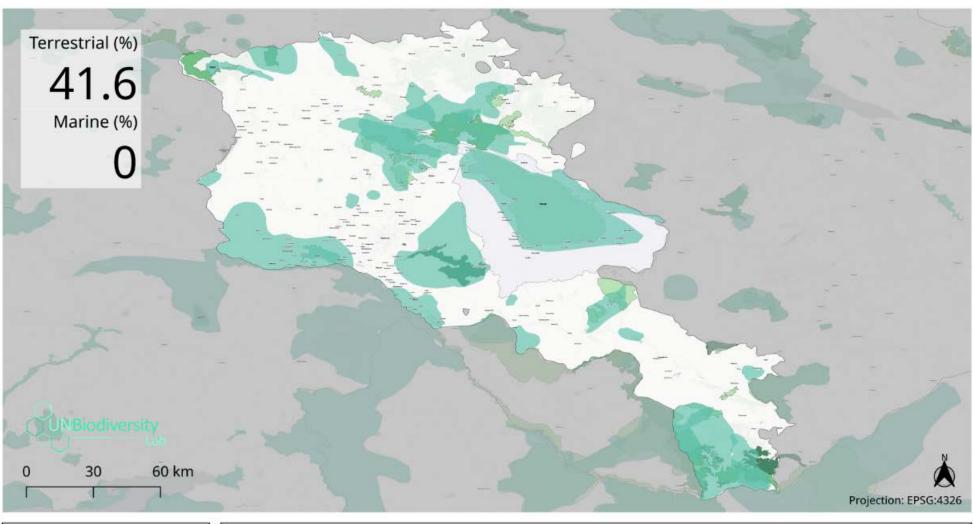
State Reserves

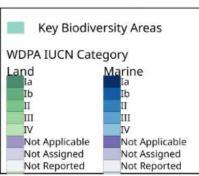
- <<Khosrov Forest>>
- <<Shikahogh>>
- <<Erebuni>>

National parks

- <<Dilijan>>
- <<Lake Sevan>>
- <<Lake Arpi>>
- <<Arevik</p>
- 26 State Reservations
- 230 Nature Monuments







Data: Key Biodiversity Area Protection Country: Armenia

Data Sources

World Database of Key Biodiversity Areas. Developed by the KBA Partnership (BirdLife International, International Union for the Conservation of Nature, Amphibian Survival Alliance, Conservation International, Critical Ecosystem Partnership Fund, Global Environment Facility, Global Wildlife Conservation, NatureServe, Rainforest Trust, Royal Society for the Conservation of Birds, Wildlife Conservation Society and World Wildlife Fund); UNEP-WCMC, IUCN, and NGS, 2018. Protected Planet: The World Database on Protected Areas (WDPA) [On-line], October 2018. Cambridge, UK: UNEP-WCMC and IUCN; Flanders Marine Institute (2018). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 10; Global Administrative Unit Layers (GAUL). 2015. UN Cartographic Unit



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