Attention card	Solar Panels	
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1^e attentions/ Action perspective

Action perspective at fires

- 1. Explore incident location and choose a deployment tactic (indoor, outdoor, offensive, defensive)
- 2. In case of an indoor deployment: switch off the meter cupboard if possible. Pay attention to loose wiring around inverter and roof, do not touch them. With a dry extinguishing suit and dry extinguishing gloves, you are already sufficiently protected against the danger of electrocution.
- 3. In case of an outdoor deployment: extinguishing of the solar panels. Watch for falling parts as a result of the fire.
- 4. Always use the following distances: extinguishing live parts (solar panel, wiring, inverter): when spraying min. 0.5 meters distance and with bound radius min. 1 meter away

Note: assume that there is always voltage on the solar panels.

Genaral

Various shapes and sizes possible:

- Processed in the roof or on the roof.
- Alternatives: noise barrier.
- Incorporated into façade cladding.
- Solar parks (with transformer house).
- Number of solar panels:
 - Small-scale application > private > small businesses > not being industrially expected voltage max. 1000V.
 - Large-scale application > e.g. solar parks > companies with large numbers of panels on the roof > industrial application Voltage possible up to 1500V.
- With large numbers of linked panels, do not come to the installation without expertise. You can always switch off i.o.m. operator/network operator
- Solar panel is always part of a larger system (cabling, inverter, meter cupboard and possibly Electric Storage System (ESS).
- ESS is storage by accu pakkages

Safe operation

- Damaged, melted, falling or loose panels: can be under tension. Be careful with wet clothes and gloves. A dry extinguishing suit with dry extinguishing gloves provide sufficient protection, if desired use 1000V insulated gloves.
- Risk of arc flash due to short circuit, burning away, disassembling cabling or cutting cabling.
- Use standard breathing air, 1000V gloves and insulated cable scissors suitable for min.1000V AC and 1500V DC in connection with sparking or arc flash.
- Glass breakage gives a chance of cuts.
- Solar panels also occur in combination with solar collector (hot water system > 70 degrees Celsius).
- A hybrid inverter is linked to a battery that in some cases continues to power the inverter when switching off the meter cupboard, the system then remains in operation!

Aftercare phase: Takes into account re-inflammation. Have the object secured. Ensure safety transfer to owner.



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Solar panels

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