

## **ADVANTAGES OF SOLAR POWER IN WARTIME**

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Solar power has major advantages like inexhaustibility, fossil fuel usage reduction and overall clarity. But such disadvantages as cost, weather dependency, energy storage and large space usage detain fast spread of this energy source.

However, during events like war or other global crisis solar energy gains additional and very important benefits.

### *Energy supplies*

All fossil fuel-dependent power sources need stable and reliable resources supplies. Ukraine as most other European countries is dependent on external energy suppliers and in the time of crisis interruptions or complete stop in the supply chain may occur. Moreover, logistics routes can be damaged or blocked that will also result in energy production halt.

To the contrary, solar power stations don't depend on energy supplies and can continue function for a long time without any major external procurements.

### *Energy objects damage*

Such energy objects like nuclear power plant can cause global-scale catastrophe effects if damaged. Even regular thermal power station's defect can be devastating for people and overall environment in the region. Large conventional dammed-hydro facilities hold back large volumes of water, a failure due natural disasters or sabotage can be catastrophic to downstream settlements and infrastructure.

On the other hand, photovoltaic power stations will not cause any catastrophic effect on the environment if damaged. They are much easier to replace or fix as individual solar panels can still function if part of the station is malfunctioning.

### *Private usage*

It will be hard to imagine private usage of nuclear or thermal power plants. The most popular way of private energy production would be diesel generator that inherits most of their large-scale counterparts and especially possibility of fuel shortage.

Meanwhile, private solar panels are very common and can produce energy for decades with minimum external aid.

Upon considering all the facts, solar power gains very important advantages during wartime or other crisis keeping usual benefits as inexhaustibility, fossil fuel usage reduction and overall clarity.