

## Kongres Container

# Solar small-scale on-site energy without the need for a network



## Overview

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Two ways to ensure continuous electricity regardless of the weather or an unforeseen event are by using distributed energy resources (DER) and microgrids. DER produce and supply electricity on a small scale and are spread out over a wide area. Rooftop solar panels, backup batteries, and emergency.

The first ever life-cycle analysis comparing big and small solar photovoltaic systems has concluded that small-scale solar systems are in fact better for the environment than even the largest, and most efficient, solar farm. Historically, solar electric systems were so expensive that many felt they.

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Small-scale solar photovoltaic (PV) systems either can be interconnected with local electric distribution lines and send excess power onto the grid (net-metering), or they can provide power on-site only. We define small-scale solar PV systems as smaller than 1 megawatt (MW)<sup>1</sup> in size, typically.

With a tape measure and some back-of-the-envelope maths, a roughly-

equivalent surface area of JA Solar 440W half-cell modules (around €78 per panel at time of writing) would cost just shy of €655. Put simply, it would be cheaper to buy power generating, mono-crystalline miracles of modern energy.

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