

# Hayleys Solar launches "Energynet" to combat power outages, non-availability of fossil fuels

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Hayleys Solar, the renewable energy arm of Hayleys Fentons, recently launched "Energynet", an off grid/hybrid solar PV system with battery backup, to effectively combat the prevailing power outages experienced in Sri Lanka.

With over a decade of market excellence, Hayleys Solar has successfully completed over 75MW of solar installations island wide making it the undisputed leader in Engineering, Procurement, and Construction (EPC) company in Sri Lanka.

A key disadvantage of on-grid solar solutions is that the solar system automatically switches off when there is a power cut, wasting solar energy that could be generated during the day. The Energynet solution mitigates this drawback by enabling solar energy to be utilised even during a power outage. Due to the energy stored in the battery, this gives a solution for night-time power cuts as well.

Solar power generated via this solution during the day, can be stored and utilised regardless of the availability of power from the main grid and ensures access to uninterrupted power at all times. The solar PV system will also charge the batteries during the daytime and discharge them when there is a power outage. Energynet can consistently power critical loads, such as lights, refrigerators, fans, televisions, and laptops. If the customer desires, the scalability of the system allows it to be customised to power higher loads such as air conditioners and pumps.

In addition to reducing the electricity bill, Energynet is a noise-free, eco-friendly solution which does not require any fuel or gas and eliminates operational costs and the hassle of waiting in unending queues. Energynet eliminates the hazard of storing fuel in canisters for backup generators.

The inverters of the Energynet Solution range between 0.5kW to 5kW single-phase units which can operate with one of three sources; the solar PV array, the battery, and the grid. The Energynet battery system (LiFePO4) ranges from 1.2kWh to 10.24kWh with battery cells from BYD/CATL, the leading battery manufacturers based in China. The batteries have a life span of over 3,000 cycles which translates to approximately 8 years if discharged once a day, 4 years if discharged twice a day.

To support customers during these challenging times, Hayleys Solar has partnered with leading banking and financial institutions for zero percent interest easy payment and credit card schemes ranging from 12 to 60 months.

Customers with pre-existing solar panels simply have to connect the Energynet solution (inverter and battery only) to existing panels and charge it directly from the grid. Customers who are new to solar energy can choose to install solar panels along with the Energynet solution or use Energynet as a stand-alone solution (without solar panels) as it can be charged via the grid. The aforementioned flexibility makes Energynet a viable solution for apartment dwellers as well.

Fentons Ltd. Managing Director Hasith Prematillake said: "As challenging circumstances continue to prevail, it is imperative that we foster practical, alternate renewable energy solutions. As a responsible organisation with a focus on offering efficient energy solutions, we have introduced Energynet to assist consumers in sustaining their lives, operations, and productivity. "Our extensive range of solutions cater to varied energy requirements of the market including branch networks, offices, shops, restaurants and more. The solution will also be greatly beneficial to software development and IT-dependent companies who can assist their employees to purchase Energynet, so they can work from home without any power interruptions."

Hayleys Solar Director and Chief Executive Officer Roshane Perera said: "We are driven by a dynamic, energetic, and young team of over 200 BSc. qualified engineers, assuring due diligence and the highest quality standards. We strive to develop solutions capable of meeting the nation's evolving energy requirements. Energynet is an ideal solution for the present power cuts and non-availability of fuel as it allows the consumers to power up key appliances required to continue their daily lives in a convenient manner."



**Fentons Managing  
Director Hasith  
Prematillake**



**Hayleys Solar Director  
and Chief Executive  
Officer Roshane Perera**