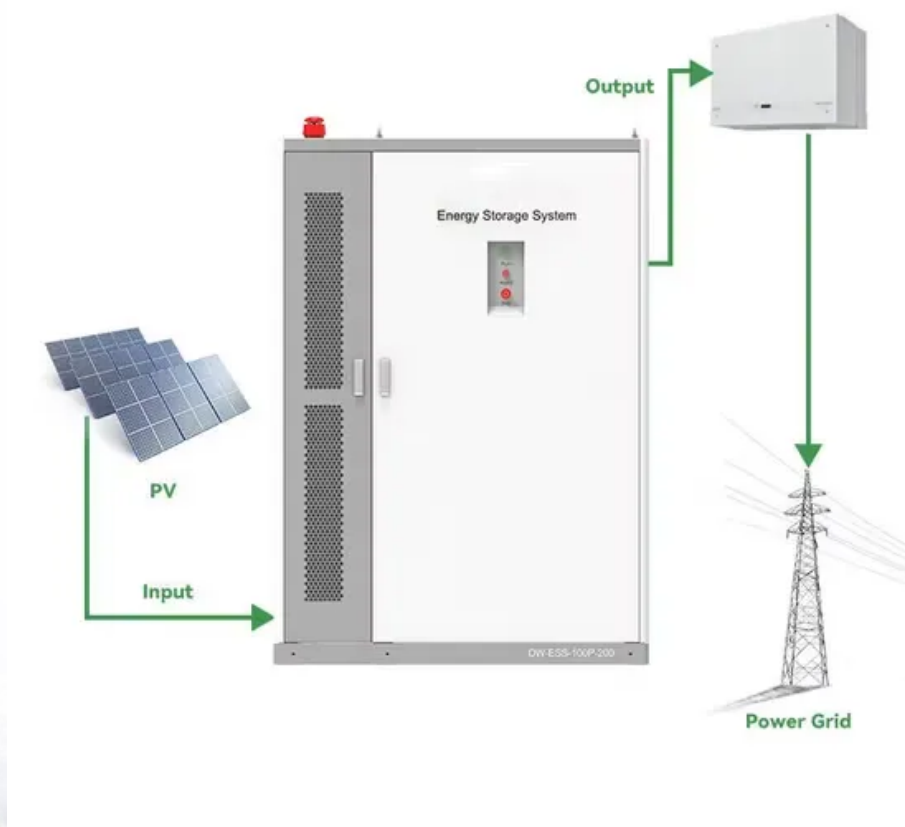


## SolarInnovate Energy Solutions

# Does working at an energy storage power station affect fertility



## Overview

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Does energy access affect fertility?

For example, improved energy access is estimated to lead to a two-times stronger reduction in fertility in a region with an average baseline education level of ten years compared with a region with an average baseline level of six years of schooling. There are different possible explanations for this complementarity.

How does access to electricity affect women's health?

Access to electricity and modern cooking fuels, especially for women, leads to time savings in the home, improved health and better access to information. These factors increase women's well-being and enhance their ability to make reproductive choices, which is empirically expressed by falling birth rates.

How do energetic states affect female reproductive health?

Many energetic states could influence female reproductive health being under- and over-weight, obesity and strenuous physical activity are all conditions that alter the profiles of specific hormones, such as insulin and adipokines, thus impairing women fertility.

How does nutrient availability affect female fertility?

The unlimited availability of nutrients, in association with reduced energy expenditure, leads to alterations in many metabolic pathways and to impairments in the finely tuned inter-relation between energy metabolism and reproduction, thereby affecting female fertility.

Do energy and education affect fertility?

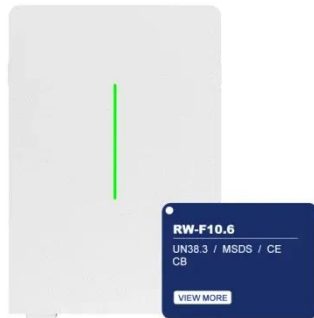
Taken together, energy and education showed strong effects on fertility in our models. In standardized terms, improvements in education and modern energy access (combined indicator) by one standard deviation resulted in a fertility decline of 0.55 and 0.24 standard deviations, respectively (Fig. 4 ).

How does access to energy affect birth rates?

Enhanced ability to make reproductive choices is in turn empirically reflected in falling birth rates <sup>15</sup>. Although access to modern energy has expanded globally in recent decades, in 2019 still 2.6 billion people had no access to clean cooking energy and 759 million had no access to electricity <sup>16</sup>.

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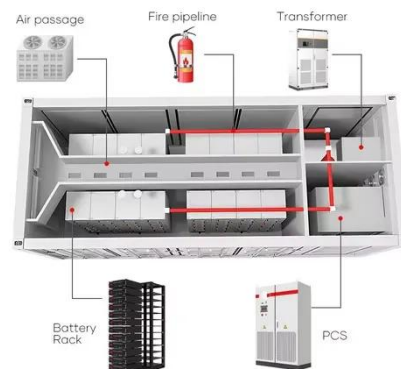
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