

# Power System Generation: Current Trend Towards Sustainable Energy Storage Systems



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**Abstract** Nowadays, our country needs to revise the usage of energy resources in every sector. This generally will affect our economy as well as our environment. Renewable energy has been debated to protect our Earth towards a bright future. Many types of renewable energy should be taken into consideration, along with rechargeable energy. Rechargeable energy seems to be a better option to lower carbon emissions. The battery is one of the chemicals that is frequently used in many industries to supply energy in terms of electrical energy. The trend towards sustainable energy storage systems was studied as the prevention of any pollution in this world.

**Keywords** Renewable energy · Rechargeable energy · Battery · Energy storage systems

## 1 Introduction

Climate change mitigation is crucial for limiting adverse environmental effects. The improvement of the energy sector has been pushed into the global agenda to combat climate change owing to the Paris Agreement's low carbon dioxide (CO<sub>2</sub>) emission allowance [1]. The United Nations Development Programme's (UNDP) 2030 Agenda for Sustainable Development (SDGs) and Paris Agreement under the United Nations

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