

# Environmental Assessment of Compressed Air Energy Storage System



All in one  
50-500 Kwh  
Hybrid  
System

## Overview

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This paper discusses the potential environmental impacts associated with the use of a Compressed Air Energy Storage (CAES) as a means of stabilizing the electricity output of a wind farm with a capacity of 150 MW. In addition, the paper provides a comprehensive reference for planning and integrating different types of CAES into energy systems. Finally, an account of work sponsored by an agency of the United States Government.

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### [The judiciary for climate justice and environmental rule of law](#)

Inger Andersen, of UNEP, urges courts to champion climate justice and environmental rule of law to protect human rights amid worsening climate impacts.

### [Environmental impact assessments of compressed air energy storage](#)

Compressed air energy storage (CAES) systems are a proven mature storage technology for large-scale grid applications. Given the increased awareness of climate change, the environmental impacts of



### **Technology Strategy Assessment**

This technology strategy assessment on compressed air energy storage (CAES), released as part of the Long-Duration Storage Shot, contains the findings from the Storage Innovations (SI) 2030 strategic

### [Multilateral actions to safeguard the environment: A timeline](#)

Since the founding of the United Nations in 1945, countries have worked together to forge groundbreaking agreements to safeguard the environment. From protecting species to





## 2022: A year of environmental milestones

Photo: UNEP This year, UNEP campaigns raised awareness about a multitude of environmental issues. World Environment Day, the International Day of Clean Air for blue skies and

## EnvironmentGPT

How is the health of our planet doing right now, and what does that mean for us? What indicators show the current state of global environmental health, and what policy priorities should address them?



## Environmental Moments: A UN75 timeline

In recognition of the 75th anniversary of the United Nations, United Nations Environment Programme (UNEP) compiled a series of snapshots overtime. In 2022, UNEP will celebrate its 50th anniversary,

## [One for all, and all for one on environmental action](#)

Inger Andersen, UNEP Executive Director, urges unity across environmental conventions to tackle indivisible crises through coherent governance and integrated action.



## [AI has an environmental problem. Here's what the world can do](#)

The sprawling data centres that house AI servers churn out toxic electronic waste and are voracious consumers of electricity, which in most places is still produced from fossil fuels.

## About environmental rights and governance

In our globalized world, environmental threats require effective responses that promote peace, justice, development and the fulfilment of environmental and human rights. UNEP promotes



## Why Environmental Policy

Environmental policy and law should work cohesively in addressing these issues. Effective, coherent and forward-thinking environmental policies are indispensable building blocks to

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