# Policy regulations on land use for communication base station batteries


## Overview

Density variation: depending on battery chemistry, layout, and modular design, land use per MW or MWh can vary significantly. Zoning & permitting constraints: local regulations may impose setbacks, buffer zones, height limits, or special uses for energy infrastructure. This issue of Zoning Practice explores how stationary battery storage fits into local land-use plans and zoning regula-tions. It briefly summarizes the market forces and land-use issues associated with BESS development, analyzes existing regulations for these systems, and offers guidance for new. Because a BESS is modular in nature and has limited infrastructure requirements, it has the potential to placed on infill developments in close proximity to existing uses, which creates the potential for conflict. The aim of the report, Energy Storage in Local Zoning Ordinances, is to inform land use. Battery energy storage systems (BESSs) will play a critical role in clean energy deployment, yet much is unknown at the local level about how to site these facilities. GPI recently rolled out a framework for local governments and community planners in an article published in the American Planning. To date, 10 states have adopted legislation or executive actions requiring electric utilities to install certain amounts of energy storage, and many states have also established financial incentives and other policies designed to encourage the use of energy storage to make the electric grid more.

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### Considerations for Government Partners on Energy Storage ...

Collaborative eforts between industry and government partners are essential for creating efective rules and ordinances for siting and permitting battery energy storage systems as energy storage continues ...

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### The Essential Guide to Land Requirements for Battery Storage Stations

Selecting the right site for a battery storage station is critical. The land requirements vary significantly based on the scale of the project, the type of batteries used, and the specific operational ...

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### Report Provides Overview of Planning, Zoning Issues for Battery ...

A new report from Pacific Northwest National Laboratory provides an overview of battery energy storage systems from a land use perspective and describes the implications for zoning and ...

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**Battery Energy Storage Systems (Zoning Practice March 2024)**

It briefly summarizes the market forces and land-use issues associated with BESS development, analyzes existing regulations for these systems, and offers guidance for new regulations rooted in ...

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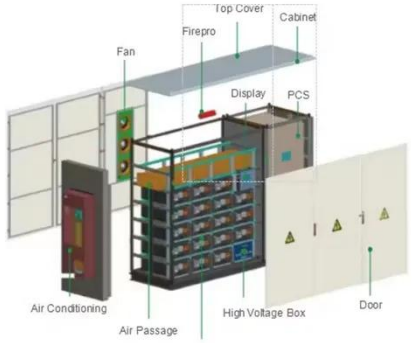


**Battery Storage Land Requirements: What Developers ...**

Utility-scale battery storage uses far less land than solar. Learn the rules of thumb, zoning constraints, and site control tips. Battery storage land requirements.

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**PNNL Releases Guidance on Local Battery Energy Storage Systems**

By developing resources that describe key considerations and show what types of regulations have been adopted in other towns and counties, we hope that including common-sense ...


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**Energy Storage in Local Zoning Ordinances**

This report provides an overview of BESS from a land use perspective and describes their implications for zoning

and project permitting. It concludes with an analysis of current energy storage zoning ...

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**Basics of Battery Energy Storage**

To mitigate risk, policymakers should prioritize safety by incorporating regulations for BESS installations, including fire safety and response standards, hazardous materials handling, and ...

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**GPI Defines Local Siting Standards for Battery Energy Storage Systems**

Planners and local decision makers need to understand the basics of energy storage technologies, associated risks, community benefits, and differences from existing forms of energy ...

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**Battery Energy Storage Systems Are Here: Is Your Community Ready?**

Since battery energy storage is accelerating quickly and the community need is apparent, planners are faced with several questions around safety,

land use perspective, zoning ...

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