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Title: Energy storage is batteries

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Developments in batteries and other energy storage technology have accelerated to a seemingly head-spinning pace recently -- even for the scientists, investors, and business ...

Doe Office of Science Contributions to Electrical Energy Storage ResearchElectrical Energy Storage FactsResources and Related TermsResearch supported by the DOE Office of Science, Office of Basic Energy Sciences (BES) has yielded significant improvements in electrical energy storage. But we are still far from comprehensive solutions for next-generation energy storage using brand-new materials that can dramatically improve how much energy a battery can store. This storage is cr...See more on [energy.gov](https://energy.gov).iacfm .iacf\_head{display:flex;align-items:center;gap:var(--smtc-gap-between-content-small);text-decoration-color:var(--smtc-foreground-content-neutral-primary);box-sizing:border-box;margin-bottom:var(--smtc-gap-between-content-x-small)}.iacfm .iacf\_head span{flex:1 1 0;white-space:nowrap;text-overflow:ellipsis;overflow:hidden;color:var(--smtc-foreground-content-neutral-primary);font:var(--acf-font-title-1-strong)}.iacfm .iacf\_head div{display:flex;height:22px;width:22px;justify-content:center;align-items:center;transition:background 300ms ease-out;margin-right:-3px;border-radius:var(--mai-smtc-corner-list-card-nested-default);overflow:hidden}.iacfm .iacf\_head .iacf\_chv{color:var(--smtc-foreground-content-neutral-primary)}[dir="rtl"] .iacfm .iacf\_head svg{transform:scaleX(-1)}.rel\_ent\_w{margin:4px 0 9px}.rel\_ent\_w.rel\_ent\_crs{margin:6px 0 16px}.b\_top .rel\_ent\_w{margin-top:-4px}.b\_top .rel\_ent\_w.rel\_ent\_crs{margin-top:0}.b\_mm\_swipable .rel\_ent\_w{margin:4px 0 20px}.b\_rich .rel\_ent\_w{margin:-3px -16px 8px}.rel\_ent\_w.rel\_ent\_scr:not(.rel\_ent\_crs){height:50px;overflow:hidden}.rel\_ent\_c{white-space:nowrap;overflow:hidden;padding-left:1px;height:50px}.aqptmt:not(.rel\_ent\_crs) .rel\_ent\_c{display:flex}.rel\_ent\_wp .rel\_ent\_c{white-space:initial}.rel\_ent\_scr .rel\_ent\_c{overflow-y:hidden;-webkit-overflow-scrolling:touch;overflow-x:auto}.rel\_ent\_scr:not(.rel\_ent\_crs) .rel\_ent\_c{padding-bottom:12px}.b\_mm\_swipable .rel\_ent\_c{padding-left:10px;margin-top:-2px;margin-bottom:4px}.b\_rich

.rel\_ent\_c{padding-left:15px}.rel\_ent\_w.rel\_ent\_crs .slide,.rel\_ent\_w.rel\_ent\_crs  
.slide:hover{width:auto;height:42px;border-radius:20px!important;box-shadow:none!important;overflow:visible}a.rel\_ent{display:inline-block;padding:0 16px 0 12px;margin:4px 8px 4px 0;border-radius:20px;border:1px solid #ddd;text-decoration:none;overflow:hidden;height:40px;max-width:80vw}:not(#lgVidAnsContainer)>.aqptmt .rel\_ent\_c a.rel\_ent{overflow:initial;display:flex}.slide a.rel\_ent{margin:0;box-shadow:none}.b\_sidebar .slide .rel\_ent .cico,.rel\_ent .cico,.rel\_ent>img{display:inline-block;vertical-align:middle;margin:2px 8px 2px -10px;border-radius:50%;background:#f7f7f7;flex-shrink:0}.rel\_ent\_tw{vertical-align:middle;font-size:12px;color:#444;line-height:16px;height:100%;float:right;display:table}.rel\_ent\_t{display:table-cell;vertical-align:middle;align-content:center}.aqptmt:not(.spl2) .rel\_ent\_tw,.aqptmt:not(.spl2) .rel\_ent\_tw .rel\_ent\_t{overflow:hidden;text-overflow:ellipsis;white-space:nowrap}.aqptmt:not(.spl2) .rel\_ent\_tw{display:flex;overflow:hidden;text-overflow:ellipsis;align-items:center;white-space:nowrap}.rel\_ent\_w:not(.spl2) .rel\_ent\_t strong{display:inline-block;font-weight:normal}#b\_results phead .b\_attribution{padding-bottom:8px}.iaplanner .b\_moreLink{margin-top:11px}.iaplanner.iarnd .b\_moreLink{margin-top:3px}.b\_ans .b\_rich pserp.b\_mBMargin{padding:0;border-top:0}.b\_ans #vidans2 .b\_rich .rel\_ent\_w{margin:6px 0 16px}.aqptmt a.rel\_ent{border-color:#106ebe}.aqptmt:not(.spl2) .rel\_ent\_tw,.aqptmt:not(.spl2) .rel\_ent\_tw .rel\_ent\_t{font-size:16px}#b\_content .iacfic.mmkiaacf .iacfmit .imgInfo{color:var(--smtc-ctrl-link-foreground-brand-rest)}#b\_content .iacfic.mmkiaacf .iacfmit a{text-decoration-color:var(--smtc-ctrl-link-foreground-brand-hover)}#b\_content .iacfic.mmkiaacf .iacfmit .imgInfo{font:var(--bing-smtc-text-global-body3)}#b\_content .iacfic.mmkiaacf .iacf\_crs[ data-wptds-carousel]>div[ data-wptds-carousel-scroll-container]{padding-bottom:52px}#b\_content .iacfic.mmkiaacf .iacfmit{box-sizing:initial;padding-bottom:52px}#b\_content .iacfic.mmkiaacf .iacfmit .imgInfo{text-overflow:ellipsis;display:-webkit-box;-webkit-line-clamp:2;-webkit-box-orient:vertical;align-self:stretch;padding:0 var(--smtc-gap-between-content-xx-small);overflow:hidden}#b\_content .iacfic.mmkiaacf .iacfimgc{padding-bottom:var(--smtc-gap-between-content-x-small)}#b\_content .acfImgAns .salink,#b\_content .acfImgAns .iasalink{text-align:center;display:block;padding-bottom:var(--smtc-gap-between-content-medium)}#b\_content .acfImgAns .salink:hover .iasabt,#b\_content .acfImgAns .iasalink:hover .iasabt{background:var(--smtc-background-ctrl-neutral-hover)}#b\_content .acfImgAns .salink:active .iasabt,#b\_content .acfImgAns .iasalink:active .iasabt{background:var(--smtc-background-ctrl-neutral-pressed)}#b\_content .acfImgAns .iasabt,#b\_content .iaExp\_chevron{height:initial;border-radius:var(--smtc-corner-circular);background:var(--bing-smtc-background-ctrl-neutral-rest);display:inline-block;position:relative;top:0;box-shadow:initial}#b\_content .acfImgAns .iasatxt{font:var(--bing-smtc-text-global-caption1-strong);color:var(--bing-smtc-foreground-content-brand-rest);padding:var(--smtc-gap-between-content-x-small) var(--smtc-gap-between-content-small);display:flex;gap:var(--smtc-gap-between-content-x-small);justify-content:center;align-items:center}#b\_content .acfImgAns .salink::before,#b\_content .acfImgAns .iasalink::before{border-bottom:1px solid var(--smtc-stroke-ctrl-on-neutral-rest);width:100%;display:block;content:"";top:18px;position:relative}#b\_con

tent .acfImgAns .svg{vertical-align:top}#b\_content .acfImgAns .svgpath{fill:var(--bing-smtc-foreground-content-brand-rest)}#b\_content .acfImgAns .iachevron,#b\_content .acfImgAns .svgicon{width:12px;height:12px;margin-left:0;position:relative;top:0}html[dir=rtl] #b\_content .acfImgAns .iachevron,html[dir=rtl] #b\_content .acfImgAns .svgicon{transform:scaleX(-1)}#b\_content .acfImgAns .rel\_ent\_w a.rel\_ent{border:1px solid var(--acf-stroke-neutral-decorative)}#b\_content .acfImgAns .iaheader .iacf\_head{text-decoration-color:var(--smtc-foreground-ctrl-neutral-primary-hover)}#b\_content .acfImgAns .iaheader .iacf\_head span,#b\_content .acfImgAns .iaheader .iacf\_head svg{color:var(--smtc-foreground-content-neutral-primary);forced-color-adjust:auto}#b\_content .iacfic.mmkiaacf .iacf\_plan .cico{border-radius:var(--smtc-corner-card-rest)}#b\_content .iacfic.mmkiaacf .iacf\_plan .cico img{border-radius:var(--smtc-corner-card-rest)}#b\_content .iacfic.mmkiaacf{overflow:visible;padding:0}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel]{margin:0;padding-bottom:var(--smtc-gap-between-content-medium)}#b\_content .iacf\_crsI[data-wptds-carousel] [data-wptds-carousel-controls]{--wptds-carousel-control-opacity:1}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel]>div{padding:0}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel] [data-direction="end"]{margin-right:-22px}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel] [data-direction="end"] svg{transform:scaleX(-1)}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel] [data-direction="start"]{margin-left:-22px}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel] [data-direction="start"] svg{transform:scaleX(1)}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel] button{background:var(--smtc-background-card-on-primary-default-rest);box-shadow:var(--acf-elevation-3);width:36px;border-radius:var(--smtc-corner-ctrl-lg-rest)}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel] button:hover{background:var(--smtc-background-card-on-primary-default-hover)}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel] button:active{background:var(--smtc-background-card-on-primary-default-pressed)}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel] button svg{transition:initial}#b\_content .iacfic.mmkiaacf .iacf\_crsI[data-wptds-carousel] button svg path{fill:var(--smtc-foreground-content-neutral-secondary);forced-color-adjust:auto}#b\_content .iacfic.mmkiaacf .iacfmit{position:absolute}#b\_content .iacfic.mmkiaacf .iacfimgc{margin:auto}#b\_content .b\_ans.b\_imgansacf{padding:0!important}#b\_content .b\_ans.b\_top.b\_imgansacf{background-color:initial!important}#b\_content .acfImgAns .iaheader .iacf\_head{gap:0;padding:var(--smtc-gap-between-content-medium) 0;display:flex;align-items:center;box-sizing:border-box}#b\_content .acfImgAns .iaheader .iacf\_head:hover span{text-decoration:underline}#b\_content .acfImgAns .iaheader .iacf\_head:hover .iacf\_chv{background:initial}#b\_content .acfImgAns .iaheader .iacf\_head div{display:flex;align-items:center;transition:background 300ms ease-out;margin-right:-3px;border-radius:var(--smtc-corner-ctrl-rest);overflow:hidden;color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b\_content .acfImgAns .iaheader .iacf\_head span{width:initial;flex:none;font:var(--bing-smtc-text-global-subtitle1-strong);padding-inline-start:var(--mai-s

mtc-padding-card-default);max-width:90%;text-overflow:ellipsis;white-space:nowrap;overflow:hidden}#b\_content .acfImgAns .iaheader .iacf\_head .iacf\_chv{width:22px;justify-content:center;height:22px}#b\_content .acfImgAns .rel\_ent\_w{margin-top:0}#b\_content .acfImgAns .rel\_ent\_w .b\_slideexp{margin:0}#b\_content .acfImgAns .rel\_ent\_w .btn.rounded{top:initial;margin-top:1px}#b\_content .acfImgAns .rel\_ent\_w .btn.next{right:-14px}#b\_content .acfImgAns .rel\_ent\_w .cr>div{width:36px;height:38px;border-radius:var(--smtc-corner-ctrl-lg-rest);background:var(--bing-smtc-background-container);box-shadow:var(--acf-elevation-3);border:initial}#b\_content .acfImgAns .rel\_ent\_w .cr>div:after{margin-inline-start:2px;top:0}#b\_content .acfImgAns .rel\_ent\_w .b\_viewport{padding-top:0;margin-left:0;padding-left:0}#b\_content .acfImgAns .rel\_ent\_w .b\_viewport .slide{height:38px;margin-left:0;margin-inline-end:var(--smtc-gap-between-content-x-small)}#b\_content .acfImgAns .rel\_ent\_w .a\_rel\_ent{border-radius:var(--smtc-corner-circular);background:var(--smtc-background-card-on-primary-default-rest);padding-left:0;height:38px}#b\_content .acfImgAns .rel\_ent\_w .a\_rel\_ent:active{background:var(--smtc-background-card-on-primary-default-pressed)}#b\_content .acfImgAns .rel\_ent\_w .a\_rel\_ent:active{background:var(--smtc-background-card-on-primary-default-pressed)}#b\_content .acfImgAns .rel\_ent\_w .cico{margin:var(--smtc-gap-between-content-xx-small) var(--smtc-gap-between-content-x-small) var(--smtc-gap-between-content-xx-small) var(--smtc-gap-between-content-xx-small)}#b\_content .acfImgAns .rel\_ent\_w .rel\_ent\_tw{font:var(--bing-smtc-text-global-caption1-strong)}#b\_content .acfImgAns .rel\_ent\_w .rel\_ent\_c{padding-left:0}#b\_content .acfImgAns .rel\_ent\_w .b\_slidebar{padding-inline-start:var(--mai-smtc-padding-card-default)}#b\_content .acfImgAns .rel\_ent\_w .rel\_ent\_c .rel\_ent:first-child{margin-inline-start:var(--mai-smtc-padding-card-default);align-items:center}#b\_content .acfImgAns .rel\_ent\_w .rel\_ent\_t{max-width:250px}html[dir=rtl] #b\_content .acfImgAns .iaheader .iacf\_head svg{transform:scaleX(-1)}html[dir=rtl] #b\_content .acfImgAns .iacf\_crs1[data-wptds-carousel] [data-direction="end"]{transform:scaleX(-1)}html[dir=rtl] #b\_content .acfImgAns .iacf\_crs1[data-wptds-carousel] [data-direction="start"]{transform:scaleX(-1)}.iacfm .iacfmit a:focus .isp\_imgcont img,.iacfm .iacfmit a:focus .iacfimgc img,.iacfm .iacfmit a:focus .iacf\_smol{outline:3px dotted #1aebff;outline-offset:-5px}.iacfm .iacfmit .cico{position:relative}.iacfm .iacfmit .cico::after{content:"";position:absolute;left:0;top:0;width:100%;height:100%;background:rgba(0,0,0,.03)}.gs\_card .iacfmit img,.b\_wpt\_container .iacfmit img,.b\_acf\_card .iacfmit img{transition:transform .3s ease-out}.gs\_card .iacfmit:active .iacfimgc img,.b\_wpt\_container .iacfmit:active .iacfimgc img,.b\_acf\_card .iacfmit:active .iacfimgc img{transform:scale(1.1)}.iacfic{position:relative;height:100%;width:100%;background:#fff;overflow:hidden;border-radius:inherit}.iacf\_plan{position:relative}.iacfmit .mimg{width:100%;height:100%;position:relative}.iacfic .iacfmit{position:absolute}.iacfic .iacfmit .cico{border-radius:0}.iacfca{padding:var(--mai-smtc-padding-card-default);box-sizing:border-box;overflow:hidden;border-radius:var(--smtc-corner-card-rest)}.iacfca .iacf\_crs1 .iacfmit{overflow:hidden;position:relative}.iacfca .iacf\_crs1 .iacfmit .cico{overflow:hidden;border-radius:var(--mai-smtc-corner-list-card-nested-default)}.iacfca .iacf\_crs1 .iacfmit

```
.cico img{border-radius:inherit;transition:transform 300ms ease-out}.iacfca .iacf_crs1 .iacfmit:hover .cico
img{transform:scale(1.1)}.iacfca .iacfmit a:focus,.iacfca .iacfmit a:focus img{outline:0}.iacfca .iacfmit
a:focus .cico::after{border-radius:inherit;box-shadow:inset 0 0 0 3px
var(--bing-smtc-background-card-on-primary-alt-rest);outline:2px solid
var(--smtc-foreground-content-neutral-secondary);outline-offset:-2px}.iacfca
[data-wptds-carousel][data-default][data-variant="Normal"]{margin:0
calc(-1*var(--mai-smtc-padding-card-default));height:auto}.iacfca
[data-wptds-carousel][data-default][data-variant="Normal"] [data-wptds-carousel-scroll-container]{padding:0
var(--mai-smtc-padding-card-default)}.iacfca [data-wptds-carousel][data-default][data-variant="Normal"]
[data-wptds-carousel-scroll-container] ol{width:fit-content;align-items:center}.iacfca
[data-wptds-carousel][data-default]
[data-wptds-carousel-control][data-direction="end"]{margin-right:24px}.iacfca
[data-wptds-carousel][data-default]
[data-wptds-carousel-control][data-direction="start"]{margin-left:24px}.iacfca
.iacf_pag{position:absolute;bottom:8px;left:50%;transform:translate(-50%,0)}.cards.large
.iacfca{height:200px}[dir="rtl"] .iacfca .iacf_pag{transform:translate(50%,0)}.iacfm.iacfca
.iacf_crs1[data-wptds-carousel]
[data-wptds-carousel-control]{background:var(--bing-smtc-background-ctrl-neutral-rest);border:0;height:56px
;width:16px;transition:width .3s;background
.3s;color:var(--smtc-foreground-ctrl-neutral-primary-hover)}.iacfm.iacfca .iacf_crs1[data-wptds-carousel]
[data-wptds-carousel-control] svg{transition:transform .3s}.iacfm.iacfca .iacf_crs1[data-wptds-carousel]
[data-wptds-carousel-control]:hover{width:24px;background:var(--smtc-background-ctrl-neutral-hover)}.iacf
m.iacfca .iacf_crs1[data-wptds-carousel] [data-wptds-carousel-control] path{fill:currentColor}.iacfm.iacfca
.iacf_crs1[data-wptds-carousel] ol [data-direction="start"]{border-radius:0 8px 8px
0;margin-left:16px}.iacfm.iacfca .iacf_crs1[data-wptds-carousel] ol [data-direction="start"]
svg{transform:scale(.7)}.iacfm.iacfca .iacf_crs1[data-wptds-carousel] ol [data-direction="start"]:hover
svg{transform:scale(1)}.iacfm.iacfca .iacf_crs1[data-wptds-carousel] ol
[data-direction="end"]{border-radius:8px 0 0 8px;margin-right:16px}.iacfm.iacfca
.iacf_crs1[data-wptds-carousel] ol [data-direction="end"] svg{transform:scale(-.7)}.iacfm.iacfca
.iacf_crs1[data-wptds-carousel] ol [data-direction="end"]:hover svg{transform:scale(-1)}.iacfm.iacfca.iacf_fb
.iacf_crs1[data-wptds-carousel] [data-wptds-carousel-control],.iacfm.iacfca.iacf_ss
.iacf_crs1[data-wptds-carousel]
[data-wptds-carousel-control]{background:var(--mai-smtc-background-ctrl-on-image-rest);color:var(--mai-sm
tc-foreground-ctrl-on-image-rest)}.iacfm.iacfca.iacf_fb .iacf_crs1[data-wptds-carousel]
[data-wptds-carousel-control] path,.iacfm.iacfca.iacf_ss .iacf_crs1[data-wptds-carousel]
[data-wptds-carousel-control] path{fill:currentColor}.iacfca .iacf_colg_crs1
[data-wptds-carousel-list]{width:fit-content}.iacfca .iacf_colg_crs1 .iacfmit{position:absolute}.iacfca
.iacf_colg_crs1
.cico{border-radius:0}.iacfca:not(.iacfh):has(>.iacf_colg_crs1){height:100%;width:100%;padding:0;overflow:
hidden;border-radius:inherit}.iacfca:not(.iacfh):has(>.iacf_colg_crs1)
```

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.iacfmit{border-radius:0}.iacfca:not(.iacfh):has(>.iacf_colg_crsl) [data-wptds-carousel][data-default]
[data-wptds-carousel-controls]{inline-size:calc(100% + var(--wptds-carousel-control-size) -
var(--mai-smtc-padding-card-default)*2);transform:translateX(calc(0rem +
var(--mai-smtc-padding-card-default) - (var(--wptds-carousel-control-size)/2)))
translateY(-50%)}[data-wptds-carousel][data-default],[data-wptds-carousel][data-default]::before,[data-wptds-
carousel][data-default]::after,[data-wptds-carousel][data-default] *,[data-wptds-carousel][data-default]
*::before,[data-wptds-carousel][data-default]
*::after{box-sizing:border-box;margin:0;padding:0}[data-wptds-carousel][data-default][hidden],[data-wptds-c
arousel][data-default]
[hidden]{display:none}[data-wptds-carousel][data-default][data-visually-hidden],[data-wptds-carousel][data-d
efault] [data-visually-hidden]{block-size:.0625rem;border:0;clip:rect(0 0 0
0);inline-size:.0625rem;margin:-.0625rem;overflow:hidden;padding:0;position:absolute}[data-wptds-carousel]
[data-default]{--wptds-carousel-control-bg-color:#fff;--wptds-carousel-control-border-color:#ddd;--wptds-car
ousel-control-box-shadow:0rem .125rem .1875rem rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#767676;--wptds-carousel-control-size:2rem;display:block;po
sition:relative;block-size:100%}[data-wptds-carousel][data-default]
[data-wptds-carousel-scroll-container]{overflow-x:auto;overflow-y:clip;scroll-behavior:smooth;block-size:10
0%;-ms-overflow-style:none;scrollbar-width:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-scroll-container]::-webkit-scrollbar{display:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-scroll-container]:focus-visible{outline-color:Highlight;outline-color:-webkit-focus-ring-
color;outline-offset:.0625rem;outline-style:auto;outline-width:.0625rem}[data-wptds-carousel][data-default]
[data-wptds-carousel-list]{display:flex;gap:.5rem;list-style:none;block-size:100%}[data-wptds-carousel][data-
default] [data-wptds-carousel-list]> *{flex-grow:0;flex-shrink:0}[data-wptds-carousel][data-default]
[data-wptds-carousel-list]>:not([data-wptds-carousel-item]){display:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-item]{block-size:100%}[data-wptds-carousel][data-default]
[data-wptds-carousel-item]> *{block-size:100%}[data-wptds-carousel][data-default]
[data-wptds-carousel-item]>img{display:block;inline-size:auto}[data-wptds-carousel][data-default]
[data-wptds-carousel-controls]{list-style:none;position:absolute;inline-size:calc(100% +
var(--wptds-carousel-control-size));inset-block-start:50%;transform:translateX(calc(0rem -
(var(--wptds-carousel-control-size)/2)))
translateY(-50%);display:flex;align-items:center;justify-content:space-between;pointer-events:none}[data-wpt
ds-carousel][data-default]
[data-wptds-carousel-controls]> *{flex-grow:0;flex-shrink:0}[data-wptds-carousel][data-default]
[data-wptds-carousel-control]{cursor:pointer;inline-size:var(--wptds-carousel-control-size);aspect-ratio:1;displ
ay:grid;place-content:center;border-radius:50%;background-color:var(--wptds-carousel-control-bg-color);bord
er:.0625rem solid
var(--wptds-carousel-control-border-color);box-shadow:var(--wptds-carousel-control-box-shadow);color:var(-
-wptds-carousel-control-fg-color);opacity:var(--wptds-carousel-control-opacity);pointer-events:all}[data-wptd
s-carousel][data-default]
[data-wptds-carousel-control]:active{--wptds-carousel-control-bg-color:#fff;--wptds-carousel-control-border-c
```

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olor:#ddd;--wptds-carousel-control-box-shadow:0rem .125rem .1875rem
rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#767676}[data-wptds-carousel][data-default]
[data-wptds-carousel-control]:focus-visible{outline-color:Highlight;outline-color:-webkit-focus-ring-color;out
line-offset:.0625rem;outline-style:auto;outline-width:.0625rem}[data-wptds-carousel][data-default]
[data-wptds-carousel-control] *{pointer-events:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-control]>svg{display:block}[data-wptds-carousel][data-default]
[data-wptds-carousel-control][data-direction="start"]>svg{transform:scaleX(1)}[data-wptds-carousel][data-de
fault]
[data-wptds-carousel-control][data-direction="end"]>svg{transform:scaleX(-1)}[data-wptds-carousel][data-de
fault]
[data-wptds-carousel-control][aria-disabled="true"]{visibility:hidden;cursor:not-allowed}[data-wptds-carousel
][data-default] [data-wptds-carousel-announce]{block-size:.0625rem;border:0;clip:rect(0 0 0
0);inline-size:.0625rem;margin:-.0625rem;overflow:hidden;padding:0;position:absolute}[data-wptds-carousel]
[data-default][data-variant="Normal"],[data-wptds-carousel][data-default][data-variant="FullWidth"]{--wptds
-carousel-control-opacity:0}[data-wptds-carousel][data-default][data-variant="Normal"]:has([data-wptds-caro
usel-scroll-container]:focus-visible),[data-wptds-carousel][data-default][data-variant="Normal"]:has([data-wpt
ds-carousel-control]:focus-visible),[data-wptds-carousel][data-default][data-variant="FullWidth"]:has([data-w
ptds-carousel-scroll-container]:focus-visible),[data-wptds-carousel][data-default][data-variant="FullWidth"]:h
as([data-wptds-carousel-control]:focus-visible){--wptds-carousel-control-opacity:1}[data-wptds-carousel][dat
a-default][data-variant="Normal"]>[data-snap] [data-wptds-carousel-scroll-container]{scroll-snap-type:x
proximity}[data-wptds-carousel][data-default][data-variant="Normal"]>[data-snap]
[data-wptds-carousel-item]{scroll-snap-align:center;scroll-snap-stop:always}[data-wptds-carousel][data-defau
lt][data-variant="Normal"]>[data-snap]
[data-wptds-carousel-item]:first-of-type{scroll-snap-align:start}[data-wptds-carousel][data-default][data-variant="Normal"]>[data-snap]
[data-wptds-carousel-item]:last-of-type{scroll-snap-align:end}[data-wptds-carousel][data-default][data-variant="FullWidth"]>[data-snap]
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[data-wptds-carousel-item]{inline-size:100%;scroll-snap-align:center;scroll-snap-stop:always}[data-wptds-car
ousel][data-default][data-variant="FullWidth"]>[data-snap]
[data-wptds-carousel-item]:first-of-type{scroll-snap-align:start}[data-wptds-carousel][data-default][data-variant="FullWidth"]>[data-snap]
[data-wptds-carousel-item]:last-of-type{scroll-snap-align:end}[data-wptds-carousel][data-default][data-variant="FullWidth"]>[data-snap]
[data-wptds-carousel-item]>*{inline-size:100%}[data-wptds-carousel][data-default][data-bleed-inline]
[data-wptds-carousel-controls]{--control-side-gap:.25rem;inline-size:calc(100%
-(var(--control-side-gap)*2));transform:translateX(calc(0rem
+
var(--control-side-gap)))
translateY(-50%)}[data-wptds-carousel][data-desktop]
[data-wptds-carousel-control]:hover:not([aria-disabled="true"]):not(:active){--wptds-carousel-control-bg-color
:#fff;--wptds-carousel-control-border-color:#ddd;--wptds-carousel-control-box-shadow:0rem .125rem
```

.3125rem

```
rgba(0,0,0,.14);--wptds-carousel-control-fg-color:#111}[data-wptds-carousel][data-desktop][data-variant="Normal"]:has([data-wptds-carousel-scroll-container]:hover),[data-wptds-carousel][data-desktop][data-variant="Normal"]:has([data-wptds-carousel-control]:hover),[data-wptds-carousel][data-desktop][data-variant="FullWidth"]:has([data-wptds-carousel-scroll-container]:hover),[data-wptds-carousel][data-desktop][data-variant="FullWidth"]:has([data-wptds-carousel-control]:hover){--wptds-carousel-control-opacity:1}[dir="rtl"]
[data-wptds-carousel][data-default] [data-wptds-carousel-controls]{transform:translateX(calc(0rem + (var(--wptds-carousel-control-size)/2))) translateY(-50%)}[dir="rtl"] [data-wptds-carousel][data-default]
[data-wptds-carousel-control][data-direction="start"]>svg{transform:scaleX(-1)}[dir="rtl"]
[data-wptds-carousel][data-default]
[data-wptds-carousel-control][data-direction="end"]>svg{transform:scaleX(1)}[dir="rtl"]
[data-wptds-carousel][data-default][data-bleed-inline]
[data-wptds-carousel-controls]{transform:translateX(calc(0rem - var(--control-side-gap))) translateY(-50%)}
.b_dark [data-wptds-carousel][data-default],.b_drk
[data-wptds-carousel][data-default]{--wptds-carousel-control-bg-color:#484644;--wptds-carousel-control-border-color:#545250;--wptds-carousel-control-box-shadow:0rem .125rem .1875rem rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#d2d0ce}
.b_dark [data-wptds-carousel][data-default]
[data-wptds-carousel-control]:active,.b_drk [data-wptds-carousel][data-default]
[data-wptds-carousel-control]:active{--wptds-carousel-control-bg-color:#484644;--wptds-carousel-control-border-color:#545250;--wptds-carousel-control-box-shadow:0rem .125rem .1875rem rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#d2d0ce}
.b_dark [data-wptds-carousel][data-desktop]
[data-wptds-carousel-control]:hover:not([aria-disabled="true"]):not(:active),.b_drk
[data-wptds-carousel][data-desktop]
[data-wptds-carousel-control]:hover:not([aria-disabled="true"]):not(:active){--wptds-carousel-control-bg-color:#605e5c;--wptds-carousel-control-border-color:#545250;--wptds-carousel-control-box-shadow:0rem .125rem .3125rem rgba(0,0,0,.14);--wptds-carousel-control-fg-color:#faf9f8}
.gs_card .iacfic .iacfmit .iacfimgc,.gs_card .iacfic .iacfmit .cico,.b_wpt_container .iacfic .iacfmit .iacfimgc,.b_wpt_container .iacfic .iacfmit .cico{width:100%!important;height:100%!important;border-radius:0}
.gs_card .iacfic .iacfmit.iacfstc img,.gs_card .iacfic .iacfmit .iacfimgc img,.b_wpt_container .iacfic .iacfmit.iacfstc img,.b_wpt_container .iacfic .iacfmit .iacfimgc img{width:100%;height:100%;object-fit:cover}
#slideexp1_DA43B8 .slide { margin-right: 8px; }
#slideexp1_DA43B8c .b_slidebar .slide { border-radius: 6px; }
#slideexp1_DA43B8 .slide:last-child { margin-right: 1px; }
#slideexp1_DA43B8c { margin: -4px; }
#slideexp1_DA43B8c .b_viewport { padding: 4px 1px 4px 1px; margin: 0 3px; }
#slideexp1_DA43B8c .b_slidebar .slide { box-shadow: 0 0 0 1px rgba(0, 0, 0, 0.05); -webkit-box-shadow: 0 0 0 1px rgba(0, 0, 0, 0.05); }
#slideexp1_DA43B8c .b_slidebar .slide.see_more { box-shadow: 0 0 0 0px rgba(0, 0, 0, 0.00); -webkit-box-shadow: 0 0 0 0px rgba(0, 0, 0, 0.00); }
#slideexp1_DA43B8c .b_slidebar .slide.see_more: hover { box-shadow: 0 0 0 0px rgba(0, 0, 0, 0.00); -webkit-box-shadow: 0 0 0 0px rgba(0, 0, 0, 0.00); }
Images of Energy Storage is batteriesBatteries And Energy StorageEnergy Storage BatteriesBattery And Energy StorageBattery For Energy StorageWhat Are Battery Energy Storage SystemsBattery Energy StorageWhat Is Battery Energy
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Storage SystemBattery Energy Storage ImagesWhat Is A Battery Energy Storage SystemBattery energy storage - Edison GroupWhat Are Battery Energy Storage Systems and How Do They Work?Battery Energy Storage Systems: Features, Types & ChallengesRevolutionizing Large-Scale Energy Storage: Better Multivalent Metal ...Enabling renewable energy with battery energy storage systems | McKinseyEnergy / Battery Storage - Renewables First - The Renewable Energy CompanyBattery Energy Storage B.E.S.S - EnerconHow three battery types work in grid-scale energy storage systemsBattery Energy Storage Systems Product Overview | Cummins Inc.EV batteries find new life storing solar power in California o The RegisterSee allCenter for Sustainable SystemsU.S. Grid Energy Storage Factsheet - Center for ...Electrical Energy Storage (EES) systems store electricity and convert it back to electrical energy when needed. 1 Batteries are one of the most ...

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But we are still far from comprehensive solutions for next-generation energy storage using brand-new materials that can dramatically improve how much energy a battery can store. This ...

OverviewConstructionSafetyOperating characteristicsMarket development and deploymentA battery energy storage system (BESS), battery storage power station, battery energy grid storage (BEGS) or battery grid storage is a type of energy storage technology that uses a group of batteries in the grid to store electrical energy. Battery storage is the fastest responding dispatchable source of power on electric grids, and it is used to stabilise those grids, as battery storage can transition fr...

Energy storage is a critical part of U.S. infrastructure--keeping the grid reliable, lowering energy costs, minimizing power outages, increasing U.S. energy production, and strengthening ...

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