

Solar Module Application





Overview

What are the applications of solar photovoltaic (PV) technology?

In-depth discussion of the diverse applications of solar photovoltaic (PV) technology in modern life, including building integrated photovoltaics (BIPV), agricultural photovoltaics (Agrivoltaics), transportation infrastructure, floating photovoltaic systems, etc.

How do solar PV modules work?

Solar PV modules work on the principle of photovoltaic effect, which is the process of converting sunlight into electricity. When sunlight hits the photovoltaic cells, it releases electrons, which flow through the circuit and generate a current. This current is then used to power electrical devices and charge batteries.

What is a solar PV application?

This solar PV application consists of the use of solar panels and a power inverter. Photovoltaic solar panels provide electricity in the form of direct current. The function of the inverter is to transform direct current into alternating current and inject it into the electrical grid and also for net metering.

Where can solar PV modules be used?

Remote Locations: Solar PV modules are ideal for use in remote locations, where there is no access to the electricity grid. They can be used to power remote communication systems, lighting systems, and other essential services.



Solar Module Application

Top 10 Applications of Solar Energy: Uses in Homes, Industry ...

Apr 4, 2024 · 10 major applications of solar energy, including solar water heating, building heating, solar distillation, pumping, agricultural drying, solar furnaces, and more.

Trends in PV Applications 2023

For the 28th consecutive year, the IEA-PVPS Trends report is now available. This document provides the most comprehensive global overview of the ...

Photovoltaic Module: Definition, Importance, Uses and Types

Jul 5, 2024 · Photovoltaic modules have a wide range of applications, from portable solutions to large-scale grid integrations, highlighting their importance in coordinating the field of ...

Top 10 Applications of Solar Energy: Uses in Homes, ...

Apr 4, 2024 · 10 major applications of solar energy, including solar water heating, building heating, solar distillation, pumping, agricultural drying, solar furnaces, and more.

Solar photovoltaic applications: opportunities and challenges

Furthermore, applications of photovoltaic systems are discussed in terms of their societal economic and environmental effects.

What are the major applications of solar cells?

Jun 9, 2017 · Applications in which the use of photovoltaic solar energy in different fields. Examples of photovoltaic installations in isolated systems.

Solar PV Modules: Features, Applications, and Working Principle

Apr 15, 2024 · Solar PV modules work on the principle of photovoltaic effect, which is the process of converting sunlight ...

What are the major applications of solar cells?

Jun 9, 2017 · Photovoltaic panels allow in these cases to electrify the farms (lighting, motors, shearing machines, etc.). In livestock applications, solar photovoltaics are used to power ...

Photovoltaic applications: Status and manufacturing prospects

Mar 1, 2019 · The encountered challenges in photovoltaic applications and their manufacturing processes (e.g. matching photovoltaic systems to certain applications, area for installation, ...

Solar PV Modules: Features, Applications, and Working ...

Apr 15, 2024 · Solar PV modules work on the principle of photovoltaic effect, which is the process of converting sunlight into electricity. When sunlight hits the photovoltaic cells, it releases ...



Novel and practical photovoltaic applications

Mar 1, 2022 · Due to its flexibility and relatively low cost, photovoltaic technology has been applied to a wide panel of applications. For aircraft applications, the continuous irradiation the airplane ...

What are the Most Common Applications for ...

Solar Power Generation Last summer, a PV power station experienced EL imaging dark spot anomalies, and the O& M team identified the boron ...

Low-dimensional materials for photovoltaic application

The photovoltaic (PV) market is currently dominated by silicon based solar cells. However technological diversification is essential to promote competition, which is the driving force for ...

Photovoltaic Applications , Photovoltaic Research , NLR

5 days ago · Photovoltaic Applications At NLR, we see potential for photovoltaics (PV) everywhere. As we pursue advanced materials and next-generation technologies, we are ...

What are the Most Common Applications for Solar Energy

Solar Power Generation Last summer, a PV power station experienced EL imaging dark spot anomalies, and the O& M team identified the boron-oxygen complex aggregation issue within ...

Solar PV Applications: How Photovoltaic Technology is ...

Jun 11, 2025 · In-depth discussion of the diverse applications of solar photovoltaic (PV) technology in modern life, including building integrated photovoltaics (BIPV), agricultural ...

Photovoltaic Applications Overview , SpringerLink

Jan 1, 2012 · Photovoltaic is the direct conversion of light into electricity. It uses materials which absorb photons of lights and release electrons charges. It can be used for making electric ...

Advancements in photovoltaic technology: A comprehensive ...

Apr 1, 2025 · Emerging photovoltaic applications are expanding the scope and functionality of solar energy systems beyond conventional installations. Agrivoltaic systems, which integrate ...

Solar cells: Types, Modules, and ...

Mar 31, 2022 · The basic operating principle of photovoltaic (PV) devices is the conversion of solar irradiation into electricity. There are various ...

What are the major applications of solar cells?

What Is Photovoltaic Energy? Solar PV Applications in Systems Connected to The Electricity Grid What Is An Autonomous Photovoltaic Solar Power Plant for? This solar PV application consists of the use of solar panels and a power inverter. Photovoltaic solar panels provide electricity in the form of direct current. The function of the inverter is to transform direct current into alternating current and inject it into the electrical grid and also for net metering. These installations are applicable for See more on solar-energy.technology#b_results .b_vidAns{border-radius:6px;box-shadow:0 0 1px rgba(0,0,0,.05);padding:16px 20px;gap:10px;background:#fff}@charset "UTF-8";#b_results .b_ans.b_vidAns{box-shadow:none!important;padding:var(--smtc-gap-between-



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content-medium) 0 !important; background: var(--bing-smtc-background-ctrl-fade-on-image-stop-0)} #b_results .b_ans.b_vidAns #serpvidans.vsacf .mc_vtvc, #b_results .b_ans.b_vidAns #serpvidans.vsacf .mc_vtvc_th, #b_results .b_ans.b_vidAns #serpvidans.vsacf .cico, #b_results .b_ans.b_vidAns #serpvidans.vsacf .mc_vtvc_htb, #b_results .b_ans.b_vidAns #serpvidans.vsacf .vrhc, #b_results .b_ans.b_vidAns #serpvidans.vsacf .vrhcp, #b_results .b_ans.b_vidAns #serpvidans.vsacf .vrhtc, #b_results .b_ans.b_vidAns #serpvidans.vsacf .vrhtpc {border-radius: var(--mai-smtc-corner-list-card-nested-default)} #b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc, #b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta {margin: 0} #b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_channel, #b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_row_channel {color: var(--smtc-foreground-content-neutral-primary)} #serpvidans.vsacf, #serpvidans.vsacf .expctn .expbody, #serpvidans.vsacf .mmlist {display: flex; flex-direction: column; gap: var(--smtc-gap-between-content-medium)} #serpvidans.vsacf .cico {height: auto} #serpvidans.vsacf .mc_vtvc_ban_lo {top: 0; right: auto} #serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta, #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta {height: auto; padding: var(--smtc-gap-between-content-xx-small) 0 var(--smtc-gap-between-content-xx-small) var(--smtc-gap-between-content-medium); display: flex; flex-direction: column; justify-content: space-between} #serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_title, #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_title {color: var(--smtc-ctrl-link-foreground-brand-rest); font: var(--bing-smtc-text-global-body2); height: auto; display: -webkit-box; -webkit-line-clamp: 2; -webkit-box-orient: vertical} #serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area, #serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block, #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area, #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block {display: flex; flex-direction: column; gap: var(--smtc-padding-ctrl-text-side)} #serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area .mc_vtvc_meta_row, #serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block .mc_vtvc_meta_row, #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area .mc_vtvc_meta_row, #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block .mc_vtvc_meta_row {color: var(--smtc-foreground-content-neutral-primary); height: var(--mai-smtc-padding-card-default); font: var(--bing-smtc-text-global-caption1)} #serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area .mc_vtvc_meta_row .mc_vtvc_meta_row_channel::before, #serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block .mc_vtvc_meta_row .mc_vtvc_meta_row_channel::before, #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area .mc_vtvc_meta_row .mc_vtvc_meta_row_channel::before, #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block .mc_vtvc_meta_row .mc_vtvc_meta_row_channel::before {content: ""} #serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area .mc_vtvc_meta_pubdate, #serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block .mc_vtvc_meta_pubdate, #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block .mc_vtvc_meta_pubdate {color: var(--bing-smtc-foreground-content-neutral-tertiary); padding-bottom: 0} .vsacf .mc_cwvc .mc_vtvc_con_rc, .vsacf .mmlist .mc_vtvc_con_rc {display: flex} .vsacf .mc_cwvc .mc_vtvc_con_rc .mc_vtvc_meta_w, .vsacf .mmlist .mc_vtvc_con_rc .mc_vtvc_meta_w {height: auto} .vsacf .b_title {padding-left: var(--mai-smtc-padding-card-default)} .vsacf .b_title .mmtitle {font: var(--bing-smtc-text-global-subtitle1-strong); margin-bottom: 0} .vsacf .b_title .mmtitle a::after {content: ""; margin: 5px 5px 0 0; border-top: 2px solid var(--smtc-foreground-content-neutral-primary); border-right: 2px solid var(--smtc-foreground-content-neutral-primary); background-size: 7px 7px; width: 7px; height: 7px; transform: rotate(45deg); display: inline-block; margin-left: 4px} #serpvidans.vsacf .b_title .mmtitle {margin-bottom: 0} #serpvidans.vsacf .b_title .mmtitle a {color: var(--smtc-foreground-content-neutral-primary)} #serpvidans.vsacf .cardless.mmlist .mc_vtvc_con_rc, #serpvidans.vsacf .cardless.mmlist
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.mv_vtvc_play,#serpvidans.vsacf .vtbc .mv_vtvc_play_ext{position:static}#serpvidans.vsacf .va_tt
.mc_vtvc_ban_lo{display:block}#serpvidans.vsacf .mc_bc{width:auto;border-radius:var(--smtc-ctrl-
badge-sm-corner);padding:var(--smtc-padding-ctrl-text-side) var(--smtc-gap-between-content-xx-
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a.vsb_tr_t{color:var(--smtc-foreground-content-neutral-primary)}.vsacf .va_tt .vsb_tr_chd
.mc_vtvc_th_dock.rmoveoverlay{height:36px}.vsacf .va_tt .vsb_tr_chd .mc_vtvc_th_dock{height:92px;
background:linear-gradient(180deg,var(--bing-smtc-background-ctrl-fade-on-image-stop-0)
0%,var(--mai-smtc-background-ctrl-on-image-rest) 100%)} .vsacf .va_tt a.vsb_tr_t{padding:0
20px;font:var(--acf-font-title-2-strong)}.vsacf .va_tt .vsb_tr_chd .mc_vtvc .mc_vtvc_meta,.vsacf
.va_tt .vsb_tr_chd .mc_vtvc .mc_vtvc_title{color:var(--mai-smtc-foreground-ctrl-on-image-
rest)}.vsacf span.vcmt_ctt{font:var(--bing-smtc-text-global-caption2);margin:var(--smtc-gap-
between-content-xx-small) 0 0;height:16px}#serpvidans.vsacf .vsb_tr_chd .mc_vtvc_tot
.mc_vtvc_title strong{font-size:14px;line-height:20px;display:unset}#serpvidans.vsacf .va_tt
.b_slrdp .slide:not(:first-child){margin-left:var(--smtc-gap-between-content-
small)}#serpvidans.vsacf .va_tt .vsb_tr_chd .mc_vtvc .mc_vtvc_title{white-space:normal;display:-w
ebkit-box;-webkit-line-clamp:2;-webkit-box-orient:vertical}#serpvidans.vsacf
.b_module_expansion_control .b_btnContainer .b_CompactExpansion{background-color:var(--bing-s
mtc-background-ctrl-neutral-rest);display:flex;justify-content:center;align-
items:center;gap:4px;width:fit-content;height:auto;padding:8px 12px}#serpvidans.vsacf
.b_module_expansion_control .b_btnContainer .b_CompactExpansion .b_CompactExpansionBtnText
{font:var(--bing-smtc-text-global-caption1-strong);color:var(--bing-smtc-foreground-content-brand-
rest)}#serpvidans.vsacf .b_module_expansion_control .b_btnContainer .b_CompactExpansion
.b_arrow{display:flex;margin:0;height:auto}#serpvidans.vsacf .b_module_expansion_control
.b_btnContainer .b_CompactExpansion .b_arrow path#Shape{fill:var(--bing-smtc-foreground-
content-brand-rest)}#serpvidans.vsacf .b_module_expansion_control .b_btnContainer::after{conten
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radius:1px;background:var(--smtc-stroke-ctrl-on-neutral-rest)}#b_results .b_ans.b_vidAns{box-
shadow:none;padding:12px 20px 0}#b_results .b_ans.b_vidAns
.vasac{padding:unset;margin:0}#b_results .b_ans.b_vidAns .vsa .b_attribution{padding-
bottom:0}#b_results .b_ans.b_vidAns .cardless .salink{margin:0}#b_results .b_ans.b_vidAns
.mmlist .mc_vtvc{margin-top:10px}#b_results .b_ans.b_vidAns .mmlist .mc_vtvc
.mc_vtvc_meta{display:flex;flex-direction:column;justify-content:space-between;margin:0 10px 4px
12px}#b_results .b_ans.b_vidAns .mmlist .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_channel{color:#111}#b_results .b_ans.b_vidAns .mmlist .mc_vtvc .mc_vtvc_meta
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.mc_vtvc_meta_block_area{color:#666}#b_results .b_ans.b_vidAns .mmlist .mc_vtvc
.mc_vtvc_meta .mc_vtvc_meta_block_area{bottom:0;height:unset}.b_dark .vsa.cardless .mc_vtvc{b
ackground-color:unset}.mmtitle>a{display:block}.mc_fh{height:100%;border-
radius:6px}.mc_tc_bs{overflow:hidden}.mmlist .mc_vtvc .mc_vtvc_meta { padding: 12px 16px
16px 16px; } .mmlist .mc_vtvc .mc_vtvc_meta_w { height: 112px; margin-top: -0px; } .mmlist
.mc_vtvc .mc_vtvc_title { height: 44px; line-height: 22px; margin-bottom: 0px; margin-top: 0px; }
.mmlist .mc_vtvc .mc_vtvc_meta_block_area { height: 40px; } .mmlist .mc_vtvc .vtmu, .mmlist
.mc_vtvc .vtpl { bottom: 120px; } .mmlist .mc_vtvc_th_dock { height: 112px; } .mmlist .mc_vtvc_th
.cico { height: 131px; } .mc_vtvc{background-color:#fff;box-shadow:0 0 0 1px rgba(0,0,0,.05);line-
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dow:none}.mc_vtvc_con_rc{border-radius:6px;overflow:hidden;position:relative}.mc_vtvc>a{color:
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#00a89d;width:100%;height:100%;content:"";outline-offset:-2px;position:absolute;top:0;left:0}.mc_
vtvc_th{background-color:#d5d5d5;position:relative}.mc_vtvc_th .cico{border-radius:0}.mc_vtvc_b
an_lo,.mc_vtvc_ban_up{position:absolute;vertical-align:middle}.mc_vtvc_ban_lo{bottom:0}.mc_vtvc
c_ban_up{top:0}.mc_vtvc_title{font-weight:normal;margin-
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bottom:11px;overflow:hidden;color:#111;height:54px;line-height:18px}.mc_vtvc_title
a{display:inline-block;color:#111}.mc_vtvc_title a:hover{text-decoration:underline}.mc_vtvc_src_ic
o{float:left;margin-right:4px}.mc_vtvc_act{height:16px;margin-top:-40px;padding:12px 8px;z-inde
x:1}.mc_vtvc_actc{right:16px;bottom:16px;position:absolute;display:inline-block;z-
index:1}.mc_vtvc_act_sep{border-top:1px solid #d5d5d5;height:40px;margin:0 8px}.mc_vtvc_fh
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m:8px}.mc_vtvc_htc{width:100%;height:100%;position:absolute;top:0;bottom:0;left:0;right:0}.mc_
vtvc_htb{width:100%;height:100%;background:rgba(0,0,0,.7);position:absolute;top:0;bottom:0;left:
0;right:0}.mc_vtvc_ht{width:100%;padding:0 16px;line-height:16px;color:#fff;text-decoration:unde
rline;word-break:break-word;box-sizing:border-box;vertical-align:middle;text-align:center}.mc-
vtvc_th_live_b{background-color:#c80000;color:#fff;display:inline-block;padding:2px
8px;font:11px/14px Arial;border-radius:2px;text-
transform:uppercase;height:15px;width:26px;position:absolute;left:8px;top:110px}.isvctrl .isv
.mc_vtvc_ban_up{left:0;right:initial}.mc_vtvc_ban_lo,.mc_vtvc_ban_up{right:0}.vt_text.b_lRight
.b_lLeft{margin:0 0 0 1px;height:14px;line-height:14px;padding:2px 8px;background:rgba(0,0,0,.75
);border-radius:2px;font-weight:bold}.mc_vthtb{width:100%;height:100%;background:rgba(0,0,0,.7
);position:absolute;top:0;bottom:0;left:0;right:0;display:table}.mc_vtht{width:100%;padding:0 16px
;line-height:16px;color:#fff;text-decoration:underline;word-break:break-word;box-sizing:border-
box;vertical-align:middle;text-align:center;display:table-cell}.vt_text.b_lRight .b_lLeft{margin:0 0 0
1px;height:14px;line-height:14px;padding:2px 8px;background:rgba(0,0,0,.75);border-radius:2px;fo
nt-weight:bold}.emptyStyleForDebuggingPurpose{top:0}.emptyStyleForDebuggingPurpose{top:0}.
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.vtpl{bottom:137px}.svarht #mmcar .mc_vtvc .vtmu,.svarht #mmcar .mc_vtvc .vtpl{top:8px;left:8
px}.mc_vtvc_center_play{background-image:url(data:image/svg+xml,%3Csvg%20width%3D%2232
%22%20height%3D%2232%22%20viewBox%3D%220%200%2032%2032%22%20fill%3D%22none
%22%20xmlns%3D%22http%3A%2F%2F%2F2000%2Fsvg%22%3E%0D%0A%20%20%20%20%3Cr
ect%20width%3D%2232%22%20height%3D%2232%22%20rx%3D%2216%22%20fill%3D%22black
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2354%2010.1923C13.2355%209.62986%2012%2010.3524%2012%2011.4997V20.5C12%2021.647
2%2013.2355%2022.3698%2014.2354%2021.8073L22.2356%2017.3073C23.2551%2016.7339%2
023.2551%2015.2661%2022.2357%2014.6926L14.2354%2010.1923Z%22%20fill%3D%22white%2
2%20fill-opacity%3D%220.9%22%2F%3E%0D%0A%3C%2Fsvg%3E)}.mmlist .mc_vtvc{margin:10px
1px 0}.mmlist .mc_vtvc_con_rc{display:flex}.cardless .mmlist
.mc_vtvc_con_rc{height:112px}.mmlist .mc_vtvc .mc_vtvc_meta{display:flex;flex-
direction:column;justify-content:space-between;margin:0 10px 4px 12px;padding:0}.mmlist .mc_vt
vc_title{font-weight:400;font-size:16px;height:44px;line-height:22px;margin-bottom:0;margin-
top:0;color:unset}.mmlist .mc_vtvc_meta_row{font-size:13px}.mmlist .mc_vtvc
.mc_vtvc_meta_block_area{height:unset}.mmlist .mc_vtvc .vtmu,.mmlist .mc_vtvc
.vtpl{bottom:8px}.cardless .mmlist .mc_vtvc{box-shadow:none}.cardless.mmlist
.mc_vtvc_center_play{width:32px;height:32px}.cardless.mmlist .mc_vtvc_title{font-
size:16px;color:unset}.cardless.mmlist .mc_vtvc_meta_row{line-height:20px}.cardless.mmlist
.mc_vtvc_meta_pubdate{padding-bottom:2px;color:#666}.cardless.mmlist
.mc_vtvc_th,.cardless.mmlist .mc_vtvc_th .cico,.cardless.mmlist .mc_vtvc_th div.rms_img{border-
radius:6px}.cardless.mmlist .mc_vtvc_th{height:111px}.cardless.mmlist .mc_vtvc_htc{border-
radius:6px;overflow:hidden}#serpvidans.vasac.cardless{box-shadow:none}.cardless.mmlist
.mc_bc{padding:2px 8px;line-height:14px;border-radius:2px;font-weight:normal}.mc_vtvc:hover .m
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.mc_vtvc_meta_block_area{height:34px}#serpvidansrr .mc_vtvc_meta_row{line-height:15px;font-size:13px;height:15px}#serpvidansrr .mc_vtvc_meta_pubdate{padding-bottom:4px}#serpvidansrr .mc_vtvc .vtmu,#serpvidansrr .mc_vtvc .vtpl{bottom:114px}#serpvidansrr #vidans2 .b_videocard .videoPlayer,#serpvidansrr #vidans2 .b_videocard .videoPlayer .cico,#serpvidansrr #vidans2 .b_videocard .videoPlayer .cico .rms_img{width:343px!important;height:194px!important;margin-right:0}}@media(max-width:1274.9px){#serpvidansrr .mmgrid>div{width:124px;height:164px}#serpvidansrr .mmgrid>div .cico,#serpvidansrr .mmgrid>div .cico .rms_img{width:124px;height:76px}#serpvidansrr .mc_vtvc .mc_vtvc_meta{padding:8px}#serpvidansrr .mc_vtvc .mc_vtvc_title{height:32px;line-height:16px;margin-bottom:12px}#serpvidansrr .mc_vtvc .mc_vtvc_meta_block_area{height:28px}#serpvidansrr .mc_vtvc_meta_row{line-height:13px;font-size:11px;height:13px}#serpvidansrr .mc_vtvc_meta_pubdate{padding-bottom:2px}#serpvidansrr .mc_vtvc .vtmu,#serpvidansrr .mc_vtvc .vtpl{bottom:96px}#serpvidansrr #vidans2 .b_videocard .videoPlayer,#serpvidansrr #vidans2 .b_videocard .videoPlayer .cico,#serpvidansrr #vidans2 .b_videocard .videoPlayer .cico .rms_img{width:256px!important;height:144px!important;margin-right:0}#serpvidansrr .maskthumb .mc_bc_w{padding:8px 4px 4px 8px}}#serpvidansrr.withsplitline .mmgrid>div:nth-last-child(1),#serpvidansrr.withsplitline .mmgrid>div:nth-last-child(2){margin-bottom:24px}#serpvidansrr.withsplitline .mmgrid{border-bottom:1px solid #ecec; margin-bottom:16px}#serpvidansrr #vidans2 .b_videocard .video_metadata{max-width:auto;padding:12px 16px}#serpvidansrr #vidans2 .b_videocard{margin-bottom:12px;box-shadow:0 0 1px rgba(0,0,0,.05),0 2px 3px rgba(0,0,0,.1);border-radius:6px}#serpvidansrr .b_rich{padding-top:0}#serpvidansrr #vidans2 .videoPlayer{border-radius:6px 6px 0 0;overflow:hidden}#serpvidansrr #vidans2 .b_videocard .video_metadata>h3{white-space:nowrap;overflow:hidden;text-overflow:ellipsis;-webkit-line-clamp:1;line-height:15px;height:15px;font-size:13px;color:#000;margin-bottom:20px;font-family:Arial,Helvetica,Sans-Serif;font-style:normal;display:block}#serpvidansrr.vsarr1stbig #vidans2 .b_videocard .video_metadata .actionmenu{display:none}#serpvidansrr #vidans2 .b_videocard .video_summary,#serpvidansrr #vidans2 .b_videocard .video_source{line-height:15px}#serpvidansrr #vidans2 .b_videocard .videoPlayer .vtbc{right:0}.vrhc line.nhvpv .pffvi,.vrhc line.nhvpv[data-tps="S"] .pffvt,.vrhc line.nhvpv[data-tps="M"] .pffvt,.vrhc line.nhvpv[data-tps="L"] .pffvt{display:inline-flex}.vrhc line.nhvpv .vrhvc.pffv .vrhvc{display:none}.vrhc line.nhvpv .vrhvc.pffv .player_ol{background:var(--mai-smtc-background-ctrl-on-image-hover);transition:background-color .5s;display:flex;align-items:center;justify-content:center;padding:var(--smtc-gap-between-content-x-small);gap:var(--smtc-gap-between-content-x-small);box-sizing:border-box}.mc_vtvc_th img{transition:all .3s ease-out}.nhvpv+.mc_vtvc_th img{transform:scale(1.1)}.smtplayerhtml5{height:100%;width:100%;overflow:hidden}.smtplayerhtml5 video{min-height:100%;min-width:100%}.smtplayerhtml5 .videoplaying{background-color:#000}.smtplayerhtml5.hide{display:none}.pffvt{display:none;color:var(--mai-smtc-foreground-ctrl-on-image-rest);font:var(--bing-smtc-text-global-subtitle2-strong)}.pffvi{mask:url(/rp/ui07wU6K7FR_inzG7DRbP1i8fGo.svg) center no-repeat;mask-size:12px;background:var(--bing-smtc-background-card-on-image-default);width:20px;height:20px;flex-shrink:0;align-self:flex-start}[data-tps="L"] .pffvt{font:var(--bing-smtc-text-global-subtitle2-strong)}[data-tps="L"] .pffvi{width:22px;height:22px;mask-size:16px}[data-tps="S"] .pffvt{font-size:0}[data-tps="S"] .pffvi{width:24px;height:24px;mask-size:24px;align-self:center}.hvpv.h5s .pffvt{display:inline-flex}.hvpv.h5s .vrhvc.pffv .vrhvc{display:none}.hvpv.h5s .vrhvc.pffv .player_ol{background:var(--mai-smtc-background-ctrl-on-image-hover);transition:background-color .5s;display:flex;align-items:center;justify-content:center;padding:var(--smtc-gap-between-content-x-small);gap:var(--smtc-gap-between-content-x-small);box-sizing:border-box}.pffvt{text-decoration:underline}.vrhvc .vrhvc{position:absolute;width:100%;height:35px;max-height:35px;bottom:0;left:0;padding:0;background:none;display:block;z-index:9}.vrhvc .vrhvc.hide,.vrhvc .vrhvc .hide{display:none}.vrhot{white-space:nowrap;text-overflow:ellipsis;overfl
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ow:hidden;display:inline-block;position:absolute;max-width:240px;height:18px;line-height:14px;margin-left:8px;top:10px;left:0;right:0;border-radius:2px;padding-right:8px}.vrhot

{display:inline-block}.vrhot nt{color:#fff;font-size:11px;font-weight:bold;background-color:rgba(0,0,0,.75);padding:2px 8px;margin-left:0;top:0;box-sizing:border-box;position:relative}.vrhc .ricons{position:absolute;right:8px;top:10px;left:auto;bottom:auto;height:18px;display:inline-block;cursor:pointer}.vrhol.icons_1 .vrhot{margin-right:27px}.vrhol.icons_2 .vrhot{margin-right:49px}.vrhol.icons_3 .vrhot{margin-right:79px}.vrhol .vrhot nt,.vsb_tr_chd .vrhol.icons_1 .vrhot{margin-right:0}.vpb{position:absolute;display:block;bottom:0;left:0;height:4px}.vpb

{position:absolute}.vpb nt{width:0;background:#fff}.vpb nt.test{display:none}.vpb.back{background-color:#999}.vrhcp .vrhol.npb{height:36px;max-height:36px}.vrhol .vadda{width:22px;height:18px;padding:0;margin-right:0;margin-left:2px;bottom:0;position:relative;display:inline-block;z-index:1;background:rgba(0,0,0,.75);border-radius:2px;overflow:hidden}.vrhol .vadda.hide{display:none}.vrhol .vadda .mc_vfaa{margin:3px 5px}.ricons .vol{float:left}.ricons .adultFlag{float:right}.vol{width:22px;height:18px;bottom:0;margin-left:1px;margin-right:1px;position:relative;display:inline-block}.vol.hide,.vol .hide{display:none}.vol .bg{background:rgba(0,0,0,.75);border-radius:2px}.vol.bg,.vol nt{position:absolute;bottom:0}.vol .vol.bg.volnb{border-radius:0 0 2px 2px}.vol .volsliderHandle.bg{border-radius:2px 2px 0 0}.vol nt .volsliderHandle{height:70px;display:none;width:22px;float:left;bottom:18px;position:absolute;display:block}.vol nt .volsliderHandle.hide{display:none}.volsliderHandle .vsb{height:54px;width:4px;background-color:#999;margin:9px auto 8px;position:relative;display:block;border-radius:2px}.volsliderHandle .vsh{height:6px;width:14px;padding:9px 7px 9px 7px;margin:0 -12px;display:block;position:absolute;top:30px}.volsliderHandle .vsh.hide{display:none}.volsliderHandle .vshi{height:4px;width:14px;background-color:#fff;border-radius:2px}.volMutelcon{width:16px;height:14px;margin:2px 4px;float:left}.volMuteHandle{width:22px;height:18px}.vo{background:url(/rp/ffZxBXEIP9WYOO0jhTaElyLhEVU.svg) no-repeat}.vm{background:url(/rp/fsX-ZVd03wB2TL0vmQJxSp4U9vs.svg) no-repeat}.vl{background:url(/rp/YXYMPC1Rry_XJGc7Yg8IR4B2eEs.svg) no-repeat}.vf{background:url(/rp/NoslrR4amKTs1zYxWy3laZN3HRk.svg) no-repeat}@media(forced-colors:active){.vol{forced-color-adjust:none}}.vrhc line .vt_vp,.vrhc.popout .vt_vp,.vrhc.mousefollow .vt_vp{position:absolute;bottom:0;border:hidden;padding:0;top:0;left:0;z-index:3}.vrhtc .hide{display:none}.vrh_clc .vt_vp,.vrh_clc .vrhtc .vrhi,.vrh_clc .player_ol{cursor:pointer}.vrh_clc .cico{border-radius:0}.vrhtc{border:hidden;top:0;left:0;padding:0}.vrhc.mousefollow .vrhtc,.vrhc.popout .vrhtc{background-color:#999}.vrhtc.load .player_ol{background:url(/rp/_o2maogFDeUOsovPJL-ofEuxJ4.gif) center center no-repeat}.vrhc line .vrhtc .vrhi,.vrhc.popout .vrhtc .vrhi,.vrhc.mousefollow .vrhtc .vrhi{position:absolute!important;border:hidden;z-index:2;padding:0;left:0;top:0}.player_ol{position:absolute;width:100%;height:100%;bottom:0;border:hidden;z-index:7}.vrhc.popout,.vrhc line,.vrhc.mousefollow{border-radius:6px;overflow:hidden;display:table-row-group;background:none}.vrhc.popout,.vrhc.mousefollow{z-index:4;box-shadow:0 4px 4px rgba(0,0,0,.1),0 2px 80px rgba(0,0,0,.2)}.vrhc line{z-index:1;margin:0}.vrhc.popout,.vrhc line{position:absolute;top:0}.vrhc.popout{border:1px solid #fff}.vrhc.mousefollow{position:fixed}.vrhcp{position:relative;top:0;left:0;display:table-row}.vrhc .vrhtc{position:relative;overflow:hidden}.vrhc.hide{display:none}@keyframes vh_fadein{from{opacity:0}to{opacity:1}}.vrhc.not(.hide){animation:vh_fadein 250ms}.vrhc line img{color:transparent}.vrhc line.fullsize{height:100%}.vrhc,.vrhc.hover,.vrhc.link,.vrhc.active,.vrhc:visited{color:#000;text-decoration:none}.vrhc.vrh_clc{cursor:pointer}a.hover-anchor{display:block;height:100%;width:100%;text-decoration:none}.vrhstat{height:0;overflow:hidden}Videos of Solar Module ApplicationWatch video on energy.govSolar Photovoltaic Technology Basicsenergy.govOct 30, 2020Watch video on huawei Leading Solar Solutions for a Greener Future , HUAWEI Smart PV Globalhuawei Dec 16, 2019Watch video on interestingengineering ZEUS: New project to advance



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