

# Can solar panels generate electricity





## Overview

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How is solar energy converted into electricity?

Solar energy is converted into electricity through the photovoltaic effect, a process where sunlight, composed of photons, agitates electrons in a semiconductor material (like silicon) within solar panels. Here's a deeper look into the full process: To find out how solar power works, you need to understand how panels are made.

How do solar panels generate usable electricity?

Solar arrays create a usable electricity system for your home by producing direct current (DC) electricity. This is achieved through the photovoltaic effect, where solar cells convert sunlight into electrical energy.

How do solar panels work?

Solar panels work by converting sunlight into electricity through a process called the photovoltaic effect. This process produces direct current (DC) electricity, which then needs to be converted to alternating current (AC) electricity for your home to use.

How is solar energy produced?

Solar energy is the light and heat that come from the sun. Photons are waves and particles created in the sun's core through nuclear fusion, which is then converted into electricity by solar panels on Earth.



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### How Do Solar Panels Make Electricity: The Basics Explained

Aug 26, 2025 · Discover how solar panels make electricity, their benefits, types, and challenges, and learn why solar energy is vital for a sustainable future.

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### How do solar panels generate their own electricity?

Jun 7, 2024 · Indeed, solar panels can generate electricity even on cloudy or partly sunny days. While direct sunlight optimizes power generation, solar panels utilize diffuse sunlight--light ...

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### How do solar panels make electricity?

Solar energy is becoming an increasingly popular source of renewable energy, and for good reason. Not only is solar energy clean and sustainable, but it can also help homeowners save ...

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### How do solar panels generate their own ...

Jun 7, 2024 · Indeed, solar panels can generate electricity even on cloudy or partly sunny days. While direct sunlight optimizes power generation, solar ...

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### Photovoltaics and electricity

May 24, 2024 · Solar photovoltaic cells are grouped in panels, and panels can be grouped into arrays of different sizes to power water pumps, power individual homes, or provide utility-scale ...

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### How do solar panels work? Solar power explained

Apr 3, 2025 · Solar panels work by converting incoming photons of sunlight into usable electricity through the photovoltaic effect.

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### How Solar Panels Generate Electricity: A Comprehensive Guide

Aug 18, 2025 · Yes, solar panels can still generate electricity on cloudy days, although the output will be lower compared to sunny days. The panels work by capturing diffused sunlight, which is ...

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### How Does Solar Work?

How Solar Energy Produces Electricity?How Does Solar Thermal Generate Electricity?How Do Photovoltaic Solar Panels Generate Electricity?How Can You Generate Solar Electricity at Home?The Future Is Bright with Solar EnergyThe energy of collected sunlight is transformed directly into electricity thanks to the photovoltaic effect. In short, this effect takes place when photons (tiny electromagnetic particles of light) are absorbed by a specific material, which in turn releases electrons from atoms. These released electrons are then available to do the electrical work, See more on greentumble #b\_results .b\_vidAns{border-radius:6px;box-shadow:0 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-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



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.mc_vtvc_con_rc .mc_vtvc_meta_w{height:auto}.vsacf .b_title{padding-left:var(--mai-smtc-padding-
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content-neutral-primary);background-size:7px 7px;width:7px;height:7px;transform:rotate(45deg);di
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.mv_vtvc_play,#serpvidans.vsacf .vtbc .mv_vtvc_play_ext{position:static}#serpvidans.vsacf .va_tt
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badge-sm-corner);padding:var(--smtc-padding-ctrl-text-side) var(--smtc-gap-between-content-xx-small)}#serpvidans.vsacf .rmts .mc_bc ems{display:none}#serpvidans.vsacf
a.vsb_tr_t{color:var(--smtc-foreground-content-neutral-primary)}.vsacf .va_tt .vsb_tr_chd
.mc_vtvc_th_dock.rmoverlay{height:36px}.vsacf .va_tt .vsb_tr_chd .mc_vtvc_th_dock{height:92px;
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.va_tt .vsb_tr_chd .mc_vtvc .mc_vtvc_title{color:var(--mai-smtc-foreground-ctrl-on-image-
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.b_slgrp .slide:not(:first-child){margin-left:var(--smtc-gap-between-content-
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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
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items:center;gap:4px;width:fit-content;height:auto;padding:8px 12px}#serpvidans.vsacf
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content-brand-rest)}#serpvidans.vsacf .b_module_expansion_control .b_btnContainer::after{conten
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.mc_vtvc_meta_row_channel,#b_results .b_ans.b_vidAns .mmlist .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_block_area{color:#666}#b_results .b_ans.b_vidAns .mmlist .mc_vtvc
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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
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.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
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height:0;margin:0;position:relative;border-radius:6px;overflow:hidden}.mc_vtvc.noshadow{box-sha
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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_IRight
.b_ILeft{margin:0 0 0 1px;height:14px;line-height:14px;padding:2px 8px;background:rgba(0,0,0,.75
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%22%20height%3D%2232%22%20viewBox%3D%220%200%2032%2032%22%20fill%3D%22none
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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
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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
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.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
c_vtvc_title{text-decoration:underline}.mc_vtvc_meta{box-sizing:border-box;display:inline-block;lin
e-height:18px;position:relative;width:100%}.mc_vtvc_meta_block{bottom:0;position:absolute;width
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```





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height:16px;margin-bottom:16px}#serpvidansrr .mc_vtvc
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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}#serpvidansrr @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 .vid
eo_metadata>h3{white-space:nowrap;overflow:hidden;text-overflow:ellipsis;-webkit-line-clamp:1;li
ne-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 .vrhtc.pffv
.vrhol{display:none} .vrhc line.nhvpv .vrhtc.pffv .player_ol{background:var(--mai-smtc-background-
ctrl-on-image-hover);transition:background-color .5s;display:flex;align-items:center;justify-content:c
enter;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} .s
mtplayerhtml5 .hide{display:none} .pffvt{display:none;color:var(--mai-smtc-foreground-ctrl-on-imag
e-rest);font:var(--bing-smtc-text-global-
subtitle2-strong)} .pffvi{mask:url(/rp/ui07wU6K7FR_inzG7DRbP1i8fGo.svg) center no-repeat;mask-si
ze: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 .vrhtc.pffv .vrhol{display:none}.hvpv.h5s .vrhtc.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}.vrhcp .vrhol{position:absolute;width:100%;height:35px;max-
height:35px;bottom:0;left:0;padding:0;background:none;display:block;z-index:9}.vrhcp
.vrhol.hide,.vrhcp .vrhol .hide{display:none}.vrhot{white-space:nowrap;text-overflow:ellipsis;overfl
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
div{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;heigh
t: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
div{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;botto
m: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;mar
gin-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;wi
dth: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_XJGc7Yg8lR4B2eEs.svg) no-
repeat}.vf{background:url(/rp/NosrlR4amKTs1zYxWy3laZN3HRk.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}.vrhtpc.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;l
eft: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}.vrhcp
.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: bloc
k;height:100%;width:100%;text-decoration:none}.vrhstat {height:0;overflow:hidden}Videos of Can
Solar Panels Generate Electricity? Watch video on energy.govSolar Photovoltaic Technology
Basicsenergy.govOct 30, 2020Watch video on MSN7:49From Silicon to Solar Power: The Intricate
Making of Solar PanelsMSNAwesome7 months agoWatch video on nasa.govHow NASA Uses and
Improves Solar Power - NASA Sciencenasa.govSep 26, 2024Watch full video.b_imgcap_alttitle p
strong,.b_imgcap_alttitle .b_factrow strong {color:#767676}#b_results .b_imgcap_alttitle {line-height:
22px}.b_imgcap_alttitle {display:flex;flex-direction:row-reverse;gap:var(--mai-smtc-padding-card-
default)}.b_imgcap_alttitle .b_imgcap_img {flex-shrink:0;display:flex;flex-
direction:column}.b_imgcap_alttitle .b_imgcap_main {min-width:0;flex:1}.b_imgcap_alttitle
.b_imgcap_img>div,.b_imgcap_alttitle .b_imgcap_img a {display:flex}.b_imgcap_alttitle
.b_imgcap_img img {border-radius:var(--smtc-corner-card-rest)}.b_hList
img {display:block}.b_imagePair ner img {display:block;border-radius:6px}.b_algo .vtv2 img {border-
radius:0}.b_hList .cico {margin-bottom:10px}.b_title .b_imagePair> ner,.b_vList>li>.b_imagePair>
ner,.b_hList .b_imagePair> ner,.b_vPanel>div>.b_imagePair> ner,.b_gridList .b_imagePair>
ner,.b_caption .b_imagePair> ner,.b_imagePair> ner>.b_footnote,.b_poleContent .b_imagePair>
ner {padding-bottom:0}.b_imagePair> ner {padding-bottom:10px;float:left}.b_imagePair.reverse>
ner {float:right}.b_imagePair .b_imagePair:last-child:after {clear:none}.b_algo .b_title .b_imagePair {
display:block}.b_imagePair.b_cTxtWithImg> * {vertical-align:middle;display:inline-
block}.b_imagePair.b_cTxtWithImg> ner {float:none;padding-right:10px}.b_imagePair.square_s>
ner {width:50px}.b_imagePair.square_s {padding-left:60px}.b_imagePair.square_s> ner {margin:2px
0 0 -60px}.b_imagePair.square_s.reverse {padding-left:0;padding-
right:60px}.b_imagePair.square_s.reverse> ner {margin:2px -60px 0
0}.b_ci_image_overlay: hover {cursor:pointer} sightsOverlay,#OverlayIFrame.b_mcOverlay sightsOv
erlay {position:fixed;top:5%;left:5%;bottom:5%;right:5%;width:90%;height:90%;border:0;border-rad
ius:15px;margin:0;padding:0;overflow:hidden;z-index:9;display:none}#OverlayMask,#OverlayMask.
b_mcOverlay {z-index:8;background-
color:#000;opacity:.6;position:fixed;top:0;left:0;width:100%;height:100%}BKV EnergyHow Solar
Panels Generate Electricity: In ...When sunlight hits photovoltaic solar panels, the movement of
excited electrons generates an electric field.
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