



Solar energy system connected to the grid

Source: <https://bakvestcivilconstruction.co.za/Thu-18-Dec-2025-26357.html>

Website: <https://bakvestcivilconstruction.co.za>

This PDF is generated from: <https://bakvestcivilconstruction.co.za/Thu-18-Dec-2025-26357.html>

Title: Solar energy system connected to the grid

Generated on: 2026-05-30 12:36:11

Copyright (C) 2026 . All rights reserved.

For the latest updates and more information, visit our website: <https://bakvestcivilconstruction.co.za>

The first step in connecting a solar farm to the power grid is through the use of inverters, which convert solar energy into usable power that can be used by the power grid. ...

Grid-connected PV systems are installations in which surplus energy is sold and fed into the electricity grid. On the other hand, when ...

How To Connect PV Solar To Utility Grid Here are design tips for methods of PV system utility interconnection. The purpose of this article is to give you ...

With a grid-connected system, when your renewable energy system generates more electricity than you can use at that moment, the electricity goes onto the electric grid for your utility to ...

Connecting solar power to the grid is a rewarding process that helps you contribute to renewable energy while potentially reducing your ...

With a grid-connected system, when your renewable energy system generates more electricity than you can use at that moment, the electricity ...

Solar photovoltaics are by far the most widely used grid-connected renewable energy system for residential use. But for some homeowners, small wind turbines and ...

Renewable energy projects, such as solar power plants, wind farms, and hydropower installations, play a vital role in transitioning to a clean and sustainable energy ...

If you've ever wondered, how do I connect my solar panels to the grid?, you're not alone. As more



Solar energy system connected to the grid

Source: <https://bakvestcivilconstruction.co.za/Thu-18-Dec-2025-26357.html>

Website: <https://bakvestcivilconstruction.co.za>

homeowners and businesses turn to solar energy to power their lives, the idea ...

To supply this energy to consumers, the solar power must be connected to the existing electrical grid. The process involves multiple steps to ensure compatibility, safety, and ...

Explore the efficiency of an on-grid solar system. Learn how on-grid solar works, its advantages, and why it's a smart energy choice.

An on-grid solar system, also known as a grid-tied or grid-connected solar system, is a renewable energy setup that connects directly to the public ...

Learn about the on-grid solar system, its benefits, and how it integrates with the utility grid for sustainable energy solutions.

Residential and Small Grid-Tied PV SystemsUI Standard 1741Residential and Small Grid-Tied PV System with Battery BackupPV Inverter SizingBattery Bank For PV SystemSmall PV Systems with Micro InvertersCommercial and Institutional PV SystemsUtility Grid-Tied PV SystemsGrid-tied PV systems can be set up with or without a battery backup. The simplest grid-tied PV system does not use battery backup but offers a way to supplement some fraction of the utility power. The major components of this system are the PV modules and an inverter. Residential grid-tied PV system (Source: Wikipedia) Th...See more on electricalacademia

ol#b_results li.b_ad,ol#b_topw.b_results_eml li.b_ad,ol#b_topw

li.b_ad{background-color:transparent;border-right:0;border-bottom:1px solid #ebeb; margin-bottom:1px;padding-right:20px;padding-bottom:5px}ol#b_results

li.b_adBottom,ol#b_topw.b_results_eml li.b_adBottom{border-top:1px solid #ebeb;border-bottom:0;padding-bottom:0}ol#b_context li.b_ad,ol#b_rrat_cont

li.b_ad{background-color:transparent}.sb_add cite{text-transform:lowercase}#b_results .b_ad .sb_adTA .b_caption,#b_topw.b_results_eml .b_ad .sb_adTA .b_caption,#b_results .b_ad .sb_adTA .b_vlist2col li,#b_topw.b_results_eml .b_ad .sb_adTA .b_vlist2col li,#b_results .b_ad .sb_adTA .b_factrow,#b_topw.b_results_eml .b_ad .sb_adTA .b_factrow,#b_results .b_ad .sb_adTA .b_bcfactrow,#b_topw.b_results_eml .b_ad .sb_adTA .b_bcfactrow,#b_topw .b_ad .sb_adTA .b_caption,#b_topw .b_ad .sb_adTA .b_vlist2col li,#b_topw .b_ad .sb_adTA .b_factrow,#b_topw .b_ad .sb_adTA .b_bcfactrow{padding-bottom:var(--smtc-gap-between-content-xx-small)}#b_results .b_ad .sb_adTA .b_vlist2col,#b_topw.b_results_eml .b_ad .sb_adTA .b_vlist2col,#b_results .b_ad .sb_adTA .b_factrow,#b_topw.b_results_eml .b_ad .sb_adTA .b_factrow,#b_results .b_ad .sb_adTA .b_bcfactrow,#b_topw.b_results_eml .b_ad .sb_adTA .b_bcfactrow,#b_results .b_ad .sb_adig,#b_topw.b_results_eml .b_ad .sb_adig,#b_topw .b_ad .sb_adTA .b_vlist2col,#b_topw .b_ad .sb_adTA .b_factrow,#b_topw .b_ad .sb_adTA .b_bcfactrow,#b_topw .b_ad .sb_adig{margin-top:0}#b_results .b_ad h3.b_adlabel,#b_topw.b_results_eml .b_ad h3.b_adlabel,#b_topw .b_ad h3.b_adlabel{margin-bottom:var(--smtc-gap-between-content-xx-small)}.b_ad

```
.pa_mlo~.sb_ad{margin-bottom:-6px}.b_ad_description{font:var(--bing-smtc-text-global-body3);color:var(--bing-ads-smtc-desktop-foreground-snippet-default)}#b_results .sb_add h2:hover a,#b_topw.b_results_eml .sb_add h2:hover a{text-decoration:underline}#b_results .sb_add h2:hover,#b_topw.b_results_eml .sb_add h2:hover{cursor:pointer}.b_ad li.b_adLastChild{margin-bottom:0}#b_results>li.b_ad{background-color:#fcfaf9}#b_topw.b_results_eml>li.b_ad{background-color:#fcfaf9} #b_context>li.b_ad{background-color:#fcfaf9}.b_dark #b_results>li.b_ad{background-color:inherit} .b_dark #b_topw.b_results_eml>li.b_ad{background-color:inherit}.pa_item .pa_img.white_bg,.pa_hover .pa_hover_img.white_bg{background-color:#f5f5f5}@media(forced-colors:none){.pa_item .pa_img.white_bg img,.pa_hover .pa_hover_img.white_bg img{mix-blend-mode:multiply}}#b_content .pa_carousel_mlo .b_slidebar .slide.see_more{width:85px!important;margin-right:0!important}#b_content .pa_carousel_mlo .see_more .carousel_seemore img.seeAll_chev.rms_img{opacity:0;padding-bottom:var(--smtc-gap-between-content-xx-small)}#b_content .pa_carousel_mlo .see_more .carousel_seemore a.b_moreLink{position:relative;text-decoration-color:var(--bing-smtc-foreground-content-brand-rest)}#b_content .pa_carousel_mlo .see_more .carousel_seemore a.b_moreLink::before{content:"";position:absolute;width:48px;height:48px;top:var(--smtc-gap-between-content-medium);left:50%;-webkit-transform:translate(-50%,0);-moz-transform:translate(-50%,0);-ms-transform:translate(-50%,0);-o-transform:translate(-50%,0);transform:translate(-50%,0);background-color:var(--bing-smtc-background-card-on-primary-alt-pressed);border-radius:10px;opacity:0;-webkit-transition:opacity .1s ease;-moz-transition:opacity .1s ease;-ms-transition:opacity .1s ease;-o-transition:opacity .1s ease;transition:opacity .1s ease}#b_content .pa_carousel_mlo .see_more .carousel_seemore a.b_moreLink:hover::before,#b_content .pa_carousel_mlo .see_more .carousel_seemore a.b_moreLink:focus::before,#b_content .pa_carousel_mlo .see_more .carousel_seemore a.b_moreLink:active::before{opacity:1}#b_content .pa_carousel_mlo .see_more .carousel_seemore a.b_moreLink::after{content:"";position:absolute;width:13px;height:13px;bottom:var(--smtc-padding-content-xx-large);left:50%;border-style:solid;border-width:3px 3px 0 0;border-color:var(--bing-smtc-foreground-content-brand-rest);-webkit-transform:translate(-75%,-50%) rotate(45deg);-moz-transform:translate(-75%,-50%) rotate(45deg);-ms-transform:translate(-75%,-50%) rotate(45deg);-o-transform:translate(-75%,-50%) rotate(45deg);transform:translate(-75%,-50%) rotate(45deg);border-radius:2px}#b_content .pa_carousel_mlo .see_more .carousel_seemore a.b_moreLink .seeAll_txt{color:var(--bing-smtc-foreground-content-brand-rest);font:var(--bing-smtc-text-global-body3-strong)}.pa_carousel .b_slideexp{margin-bottom:0}.pa_carousel .btn{z-index:8}.pa_carousel_mlo{margin:0 calc(-1*var(--mai-smtc-padding-card-default));padding-bottom:var(--smtc-gap-between-content-xx-small)}.b_adBottom .pa_carousel_mlo{margin:var(--mai-smtc-padding-card-default) 0 0 0!important}.narrpole .pa_carousel_ml{padding-right:20px}.pa_carousel_mlo.expanded .pa_carousel_ml{padding-right:var(--smtc-gap-between-content-xx-large)}.pa_carousel_ml .slide{border-collapse:separate}.pa_carousel_ml .slide.anim{visibility:hidden;animation:slideInFromLeft .05s
```

```
cubic-bezier(.3,.5,.1,1) .3s 1 normal forwards}@-webkit-keyframes
slideInFromLeft{0%{visibility:visible;transform:translateX(100%)}100%{visibility:visible;transform:translat
eX(0)}}@keyframes
slideInFromLeft{0%{visibility:visible;transform:translateX(100%)}100%{visibility:visible;transform:translat
eX(0)}}.pa_carousel_ml .slide:focus-visible{text-decoration:underline}li
.pa_mlo{padding-bottom:0}#b_content ol#b_results li.b_ad,#b_content ol#b_topw.b_results_emi
li.b_ad{border-bottom:0}.b_adPATitle{text-overflow:ellipsis;overflow:hidden;white-space:nowrap;padding-ri
ght:var(--smtc-gap-between-content-medium);height:26px;font:var(--bing-smtc-text-global-subtitle1-strong);c
olor:var(--smtc-foreground-content-neutral-primary)!important;padding-bottom:var(--smtc-padding-ctrl-sm-te
xt-bottom)}.b_adPATitleBlock{padding-bottom:var(--smtc-gap-between-content-small)}.b_adPATitleBlock
.b_floatR{margin-left:var(--mai-smtc-padding-card-default)}.b_adPATitle
a:focus-visible{margin-left:var(--smtc-padding-ctrl-text-side);text-decoration:underline}.b_adPATitle
a{font:var(--bing-smtc-text-global-subtitle1-strong)!important;color:var(--smtc-foreground-content-neutral-pri
mary)!important;vertical-align:text-bottom}.pa_carousel_ml
.b_adPATitleBlock{padding-left:var(--mai-smtc-padding-card-default)}.b_adPATitle_chevron{display:inline-
flex;padding:var(--smtc-gap-inside-ctrl-to-secondary-icon)}.b_adPATitleBlock
.b_adSlug{margin-right:var(--bing-ads-smtc-url-icon-padding-left);padding:0
var(--smtc-padding-ctrl-text-side);border:1px solid
var(--bing-ads-smtc-ad-slug-stroke);font:var(--bing-smtc-text-global-caption2);color:var(--bing-ads-smtc-desk
top-foreground-ad-slug-default);border-radius:var(--bing-ads-smtc-ad-slug-corner)}.sb_adTA
.b_adSlug{font:var(--bing-smtc-text-global-caption2);line-height:var(--bing-ads-smtc-ad-slug-line-height);bor
der-radius:var(--bing-ads-smtc-ad-slug-corner);display:inline-block}.b_adSlug{font-size:11px;font-weight:nor
mal;line-height:11px;border-radius:6px;display:inline-block}.b_adSlug{color:var(--bing-ads-smtc-desktop-for
eground-ad-slug-default);border:1px solid
var(--bing-ads-smtc-ad-slug-stroke);vertical-align:middle}.sb_adTA .b_adSlug,.ba_results
.b_adSlug{color:var(--bing-ads-smtc-desktop-foreground-ad-slug-default);border:1px solid
var(--bing-ads-smtc-ad-slug-stroke)}#b_context>li.b_ad .sb_adBrandSidebar.sb_adTA
.b_adSlug>a,#b_rrat_cont>li.b_ad .sb_adBrandSidebar.sb_adTA
.b_adSlug>a{color:var(--bing-ads-smtc-desktop-foreground-ad-slug-default)}.b_adSlug{padding:0
var(--smtc-gap-between-content-xxx-small) 0
var(--smtc-gap-between-content-xxx-small)}.b_adSlug{margin-right:var(--smtc-gap-between-content-xx-smal
l)}.sb_adTA .b_adSlug,.ba_results
.b_adSlug{margin-right:var(--smtc-padding-ctrl-text-side)}z{a:1}z{a:1}z{a:1}.b_adChoice{position:relative;
width:12px;height:12px;text-indent:0;overflow:hidden;direction:ltr;transform:none;float:right}.b_adChoiceInl
ine{display:inline-block}.b_adChoice::after{transform-origin:-320px
0;transform:scale(.5);position:relative;display:inline-block}.b_adSlugRow
.b_adChoice{float:none;vertical-align:-1px;display:inline-block}.pa_sbo+a
.b_adChoice{margin-top:8px}.b_adPATitleBlock bubble_lite bubble_item,.b_adSlugRow bubble_lite
bubble_item,.b_spa_adblock bubble_lite bubble_item,.b_magazine bubble_lite
```

bubble_item,.ra_car_container bubble_lite
bubble_item,.b_adinfo{display:inline-block!important}.b_adinfo{cursor:pointer;vertical-align:middle;line-height:0}.b_adChoice::after{content:url(/rp/EX_mgILPdYtFnI-37m1pZn5YKII.png)}.emb_ppa
.listad{position:relative}.emb_ppa .b_adinfo bubble_item{height:12px}.emb_ppa lcard .lc_content
.b_factrow .b_slgw{position:absolute;top:6px;left:8px;display:flex;align-items:center;border:1px solid #ecec;border-radius:6px;background-color:#fff;justify-content:center;height:20px;width:71px}div.b_adSlug
, lcard .lc_content .b_factrow div.b_embPPASlug.b_adSlug,#1MapContainer .b_aswta .vertcard .lc_content
div.b_factrow div.b_adSlug,div.gs_VA_slgw .b_adSlug.b_opttxt.b_divdef,.genserp_PA_container
.genserp_PA_title div.genserp_PA_adslug
span.genserp_adSlug,.gs_embedded_label_container,.embedded_msan_ad_slug{border:0;margin-right:0}#b_c
ontent .pa_carousel_mlo .pa_item.pa_vCard .pa_title,#b_content .pa_carousel_mlo .pa_item.pa_vCard
.pa_caption,#b_content .pa_carousel_mlo .pa_item.pa_vCard .b_finalText,#b_content .pa_carousel
.pa_item.pa_vCard .pa_title,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption,#b_content .pa_carousel
.pa_item.pa_vCard .b_finalText,#b_content .pa_grid .pa_item.pa_vCard .pa_title,#b_content .pa_grid
.pa_item.pa_vCard .pa_caption,#b_content .pa_grid .pa_item.pa_vCard .b_finalText{padding:0
var(--smtc-padding-ctrl-horizontal-default)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .cico,#b_content
.pa_carousel .pa_item.pa_vCard .cico,#b_content .pa_grid .pa_item.pa_vCard
.cico{margin-bottom:var(--smtc-gap-between-content-small)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_title,#b_content .pa_carousel .pa_item.pa_vCard .pa_title,#b_content .pa_grid
.pa_item.pa_vCard
.pa_title{font:var(--bing-smtc-text-global-body3);color:var(--smtc-ctrl-link-foreground-brand-rest)}#b_content
t .pa_carousel_mlo .pa_item.pa_vCard .pa_caption,#b_content .pa_carousel .pa_item.pa_vCard
.pa_caption,#b_content .pa_grid .pa_item.pa_vCard
.pa_caption{margin-top:var(--smtc-gap-between-content-x-small);padding-bottom:var(--smtc-gap-between-content-x-small);font:var(--bing-smtc-text-global-caption1)!important}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .pa_price,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_price,#b_content .pa_grid .pa_item.pa_vCard .pa_caption
.pa_price{margin-bottom:var(--smtc-gap-between-content-xx-small)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .pa_price .prc_clr_grn,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_price .prc_clr_grn,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .pa_price
.prc_clr_grn{color:var(--smtc-status-success-tint-foreground)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .pa_price strong,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_price strong,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .pa_price
strong{color:var(--smtc-foreground-content-neutral-primary)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .pa_price .original_price,#b_content .pa_carousel .pa_item.pa_vCard
.pa_caption .pa_price .original_price,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .pa_price
.original_price{font:var(--bing-smtc-text-global-caption1);padding-left:var(--smtc-gap-between-content-x-small)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .pa_installmentDesc,#b_content
.pa_carousel_mlo .pa_item.pa_vCard .pa_caption .pa_unitprice,#b_content .pa_carousel_mlo

.pa_item.pa_vCard .pa_caption .vertical_converted_price,#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .pa_shippingcost,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .pa_installmentDesc,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .pa_unitprice,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .vertical_converted_price,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .pa_shippingcost,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .pa_installmentDesc,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .pa_unitprice,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .vertical_converted_price,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .pa_shippingcost{font:var(--bing-smtc-text-global-caption1);margin-bottom:var(--smtc-gap-between-content-xx-small);color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_attribution,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .b_attribution,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .b_attribution{margin-bottom:var(--smtc-gap-between-content-xx-small);color:var(--bing-smtc-foreground-content-neutral-secondary-alt);border-bottom:0;font:var(--bing-smtc-text-global-caption1)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_attribution cite,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .b_attribution cite,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .b_attribution cite{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-alt);opacity:unset}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_secondaryText,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .b_secondaryText,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .b_secondaryText{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_rebateText,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_rebateText,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_rebateText{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_promo a,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_promo a,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_promo a{color:var(--smtc-ctrl-link-foreground-brand-rest)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_rating a,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_rating a,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_rating a{color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_content .pa_carousel_mlo .b_overlay .btn .cr{height:24px;width:20px;padding:var(--smtc-padding-ctrl-lg-text-top)var(--smtc-padding-ctrl-sm-horizontal-default);background-color:var(--bing-smtc-foreground-ctrl-on-image-switchable-rest);border-radius:var(--smtc-corner-ctrl-lg-rest);box-shadow:var(--acf-elevation-3)}#b_content .pa_carousel_mlo .b_overlay .btn .cr>div{width:8px;height:8px;background-color:transparent;border-color:var(--smtc-foreground-content-neutral-primary);border-style:solid;border-width:2px 2px 0;transform:rotate(45deg);border-radius:0;top:var(--smtc-padding-ctrl-text-top);left:var(--smtc-padding-ctrl-s

```
m-text-top);position:relative;box-shadow:none;margin:0}#b_content .pa_carousel_mlo .b_overlay .btn
.cr>div::after{content:"";display:none}#b_content .pa_carousel_mlo .b_overlay
.btn.next{margin-right:6px}#b_content .pa_carousel_mlo .b_slideexp
.b_hoverFading{background:linear-gradient(90deg,var(--bing-smtc-background-ctrl-fade-on-primary-stop-0)
0%,var(--smtc-background-card-on-primary-default-rest) 60%);right:0}#b_content .pa_carousel_mlo
.b_slidesContainer{width:100%}html[dir="rtl"] #b_content .pa_carousel_mlo .b_overlay .btn
.cr>div{transform:rotate(135deg);left:calc(-1*var(--smtc-padding-ctrl-sm-text-top))}html[dir="rtl"]
#b_content .pa_carousel_mlo .b_slideexp
.b_hoverFading{background:linear-gradient(270deg,var(--bing-smtc-background-ctrl-fade-on-primary-stop-0)
0%,var(--smtc-background-card-on-primary-default-rest) 60%)}#b_content .pa_carousel_mlo
.slide,#b_content .pa_carousel .slide,#b_content .pa_grid
.pa_item{border-radius:var(--smtc-corner-card-rest)!important}#b_pole
.pa_carousel_mlo{margin-right:0}.pa_item.pa_vCard{word-wrap:break-word;line-height:20px;overflow:hidd
en}.pa_item.pa_vCard p strong,.pa_item.pa_vCard .pa_price strong{color:#111}.pa_item.pa_vCard
.pa_deal{text-decoration:line-through}#b_content .pa_item.pa_vCard
.b_attribution{font-size:14px;padding-bottom:0;line-height:20px}#b_content .pa_item.pa_vCard
p,#b_rrat_cont .pa_item.pa_vCard p{line-height:20px}#b_content .pa_item.pa_vCard
.pa_title{line-height:20px;overflow:hidden}.pa_item.pa_vCard
.b_footnote{line-height:17px;padding-bottom:0}.pa_item.pa_vCard
.pa_caption{padding-bottom:8px}.pa_item.pa_vCard .pa_caption,.pa_item.pa_vCard
.pa_title{padding-left:4px;padding-right:4px}.pa_item.pa_vCard
.b_finalText{position:absolute;width:100%;box-sizing:border-box;left:0;padding:0 4px 0
4px;bottom:8px}.pa_item.pa_vCard
.cico{display:block;padding-bottom:0;margin-bottom:8px;margin-left:auto;margin-right:auto;border-radius:0}
.pa_item.pa_vCard .pa_img{position:relative}.pa_item.pa_vCard .pa_price: hover,.pa_item.pa_vCard
.b_attribution: hover,.pa_item.pa_vCard .b_footnote: hover{cursor:pointer}.pa_carousel .slide{box-shadow:0 0
0 1px rgba(0,0,0,.1)!important}.pa_carousel .slide.see_more{box-shadow:0 0 0
0 rgba(0,0,0,0)!important}.pa_caption .pa_price: hover strong,.pa_hover .pa_hover_content .pa_price: hover
strong{text-decoration:underline;text-decoration-color:#111}.pa_caption .b_attribution: hover,.pa_hover
.pa_hover_content
.b_attribution: hover{text-decoration:underline}.pa_caption>.b_secondaryText: hover,.pa_hover
.pa_hover_content>.b_secondaryText: hover{color:#444}.b_ads1line{white-space:nowrap;overflow:hidden;te
xt-overflow:ellipsis;display:block}.pa_item .b_attribution cite,#b_content .pa_item .b_attribution
cite,.pa_hover .b_attribution cite,.pa_item .b_footnote .pa_url cite,#b_rrat_cont .pa_item .b_attribution
cite{color:#111;opacity:.8}#bpage.b_drk .pa_item .b_footnote .pa_url
cite{color:#d2d0ce}.pa_item.pa_vCard{cursor:pointer}@supports(-webkit-line-clamp:2){.b_adsTrunTx{displ
ay:-webkit-box;overflow:hidden;-webkit-box-orient:vertical;white-space:normal;visibility:visible}.b_ellipsis{
display:none}.b_adsTrunTx
.b_hiddenTx{display:inline}}.b_hiddenTx{display:none}.pa_item.pa_vCard,.pa_item.pa_hCard{position:relat
```

```
ive}.pa_hover{z-index:4}.pa_carousel .b_overlay .btn{z-index:5!important}.pa_item.pa_vCard
.pa_newtab_icon{display:none}.pa_item.pa_vCard .pa_newtab_icon,.pa_item.pa_hCard:hover
.pa_newtab_icon,.pa_hover
.pa_newtab_icon{position:absolute;background-color:rgba(0,0,0,.35);background-size:10px
10px;background-position:4px
4px;background-repeat:no-repeat;border-radius:var(--smtc-corner-circular);height:18px;width:18px;z-index:1
}.pa_item.pa_vCard .pa_newtab_icon,.pa_hover
.pa_newtab_icon{right:4px;top:4px}.pa_item.pa_hCard:hover
.pa_newtab_icon{left:110px;top:8px}.pa_item.pa_vCard .pa_newtab_icon,.pa_item.pa_hCard:hover
.pa_newtab_icon,.pa_hover
.pa_newtab_icon{background-image:url(
AAAUCAYAAACNiR0NAAAAA0kIEQVQ4EWNgGOyAkVIH/v//3xBoBg+I5sD1Aw08DcRwAJcglwE0iRu
I58FMZAQyTICGFZNoYBcjI+N5kB6g/kIAKg2I24G4gQVISANxOBAvBWJiwDEshgUBNV4HYhWQDf5
A/JsYk5DVgFwGxD+A2AtZnCwDgYaUYjUMZDJQgmQXAvUIA7EjVD8nkO0McyUTjEEKDQzDt0C8H
6pnPpC2hekny0CYZiitjMynhoHI5jEMfgNBCRsEQDnGH8IkRRAlgEy8D8Ur0GWIJH9I0T1w0k5AETBd
SUE2utkAAAAEIFTkSuQmCC)}.pa_hover{background-color:var(--smtc-background-web-page-primary);b
ox-shadow:none;position:absolute;opacity:0;visibility:hidden;word-wrap:break-word;cursor:pointer;overflow:
hidden;z-index:4;pointer-events:none}.pa_hover
.pa_hover_content{padding-bottom:var(--smtc-gap-between-content-x-small)}.pa_hover
.pa_hover_title,.pa_hover .pa_price,.pa_hover .b_attribution,.pa_hover .b_secondaryText,.pa_hover
.pa_additionTx,.pa_hover>div>.b_ads1line,.pa_hover .b_footnote,.pa_hover
.pa_hover_content>.pa_locInv{padding-left:var(--smtc-padding-ctrl-horizontal-default);padding-right:var(--s
mtc-padding-ctrl-horizontal-default)}.pa_hover .pa_hover_img{position:relative}.pa_hover .pa_hover_img
img{display:block;margin-left:auto;margin-right:auto}.pa_hover
.pa_hover_title{font:var(--bing-smtc-text-global-body3)!important;color:var(--smtc-ctrl-link-foreground-bran
d-rest);margin-bottom:var(--smtc-gap-between-content-x-small)}.pa_hover
.pa_hover_title:hover{text-decoration:underline}.pa_hover
.pa_price{margin-bottom:var(--smtc-gap-between-content-xx-small)}.pa_hover .pa_price
.prc_clr_grn{color:var(--smtc-status-success-tint-foreground)}.pa_hover .pa_price
strong{color:var(--smtc-foreground-content-neutral-primary);font:var(--bing-smtc-text-global-caption1-strong
)}.pa_hover .pa_price
.original_price{font:var(--bing-smtc-text-global-caption1);padding-left:var(--smtc-gap-between-content-x-sma
ll)}.pa_hover .pa_installmentDesc,.pa_hover .pa_unitprice,.pa_hover .vertical_converted_price,.pa_hover
.pa_shippingcost{font:var(--bing-smtc-text-global-caption1);margin-bottom:var(--smtc-gap-between-content-
xx-small);color:var(--bing-smtc-foreground-content-neutral-secondary-alt);padding-bottom:0}.pa_hover
.b_attribution{margin-bottom:var(--smtc-gap-between-content-xx-small);color:var(--bing-smtc-foreground-co
ntent-neutral-secondary-alt);border-bottom:0;font:var(--bing-smtc-text-global-caption1)}.pa_hover
.b_attribution
cite{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-al
```

```

t);opacity:unset}.pa_hover.pa_bcSeparator{margin:var(--smtc-gap-between-content-xx-small)
0;border-top:1pxsolid#ecec}.pa_hover
.b_secondaryText{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutra
l-secondary-alt)}.pa_hover.b_secondaryText
.pa_rebateText{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-s
econdary-alt)}.pa_hover.b_secondaryText.pa_promo
a{color:var(--smtc-ctrl-link-foreground-brand-rest)}.pa_hover.b_secondaryText.pa_rating
a{color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}.pa_hover.b_secondaryText
.b_colorBlend{color:var(--bing-smtc-foreground-content-neutral-secondary-alt)!important}.pa_hover
.pa_additionTx,.pa_hover
.pa_locInv{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secon
dary-alt)}a.pa_hover_adLink:hover{text-decoration:none}.pa_hover:has(.pa_hover_content.pa_hcgp){border-
radius:var(--smtc-corner-card-rest)}.pa_hover.ad_scpah.pa_animation{background-color:var(--smtc-backgrou
nd-card-on-primary-default-hover);box-shadow:var(--acf-elevation-3);pointer-events:auto}.pa_item.pa_vCard
>a:hover{text-decoration:none}.pa_hover:not(:has(.b_pa_hov_indicator_c)).pa_hover_img
img{margin-bottom:var(--smtc-gap-between-content-small)}.pa_hover.ad_scpah.pa_animation{transition:heig
htvar(--acf-animation-duration-default)var(--acf-animation-ease-default),background-color
var(--acf-animation-duration-default)var(--acf-animation-ease-default),box-shadow
var(--acf-animation-duration-default)var(--acf-animation-ease-default)}.pa_badge{position:absolute;background-color:var(--smtc-status-informativ
e-tint-background);border-radius:var(--smtc-ctrl-badge-sm-corner);box-shadow:var(--acf-elevation-4);margin-
left:var(--smtc-padding-ctrl-sm-horizontal-default)!important;top:var(--smtc-padding-ctrl-text-top)!important}
acf-badge{display:flex;align-items:center;inline-size:fit-content;max-inline-size:100%;gap:var(--smtc-ctrl-bad
ge-gap);padding-block-start:var(--smtc-ctrl-badge-sm-text-padding-top);padding-block-end:var(--smtc-ctrl-ba
dge-sm-text-padding-bottom)}acf-badge,acf-badge::before,acf-badge::after,acf-badge
*,acf-badge
*::before,acf-badge
*::after{box-sizing:border-box;margin:0;padding:0}acf-badge[hidden],acf-badge
*[hidden]{display:none}acf-badge[data-visually-hidden],acf-badge
*[data-visually-hidden]{block-size:1px;inline-size:1px;margin:unset;padding:unset;border:0;clip:rect(0 0 0
0);clip-path:inset(50%);overflow:clip;position:absolute;white-space:nowrap}acf-badge>{*{min-inline-size:0;fl
ex-shrink:0;flex-grow:0}acf-badge
span{flex-shrink:1;white-space:nowrap;overflow:clip;text-overflow:ellipsis;max-block-size:calc(1*1lh)}acf-b
adge[data-fill="Tint"]{background-color:var(--smtc-status-informative-tint-background)}.acf-badge__favicon
{border-radius:var(--mai-smtc-corner-favicon)}@media(forced-colors:active){acf-badge{border:1px
solid}}acf-badge[data-size="Small"]{block-size:18px;border-radius:var(--smtc-ctrl-badge-sm-corner);padding
-inline:var(--smtc-ctrl-badge-sm-padding)}acf-badge[data-size="Small"]:has(.acf-badge__favicon){padding-i
nline-start:var(--smtc-padding-ctrl-text-side)}acf-badge[data-size="Small"][data-weight="Default"]{font:var(-
-bing-smtc-text-global-caption2)}acf-badge[data-size="Small"][data-weight="Heavy"]{font:var(--bing-smtc-t
ext-global-caption2-strong)}acf-badge[data-style="Neutral"][data-fill="Tint"]{color:var(--smtc-foreground-co
ntent-neutral-primary)}acf-badge[data-style="Neutral"][data-fill="Priority"]{color:var(--bing-smtc-foregrou

```

```
d-ctrl-on-image-switchable-rest);background-color:var(--bing-smtc-status-informative-neutral-background)}.b
_pa_indicator_c{position:absolute;bottom:calc(-1*var(--smtc-gap-between-content-x-small));width:100%;dis
play:flex;gap:var(--smtc-gap-between-content-xx-small);justify-content:center;forced-color-adjust:none}.b_pa
_hov_indicator_c{position:relative;height:12px;display:flex;gap:var(--smtc-gap-between-content-xx-small);ju
stify-content:center;align-items:center}.b_pa_ind_chev{position:absolute;height:36px;width:36px;backgroun
d-size:cover;background-repeat:no-repeat;background-position:center}.b_tabhovcard
.b_pa_ind_chev{display:none}.b_pa_ind_chev.left{left:0}.b_pa_ind_chev.right{right:0}.b_pa_indicator{trans
ition:width
var(--acf-animation-duration-default)
var(--acf-animation-ease-default)}.b_pa_indicator.sel{width:8px;height:4px;border-radius:var(--smtc-ctrl-bad
ge-sm-corner);background-color:var(--smtc-foreground-content-brand-primary)}.b_pa_indicator:not(.sel){wid
th:4px;height:4px;border-radius:var(--smtc-ctrl-badge-sm-corner);background-color:var(--bing-smtc-stroke-ct
rl-strong)}.b_pa_ind_chev.left{background-image:url(/rp/agxFsUMkC673WmoTmnIMPxEe6ws.svg)}.b_pa_
ind_chev.left:hover{background-image:url(/rp/xMN0EpA0PIBdEcQcjFfqG_vpETU.svg)}.b_pa_ind_chev.rig
ht{background-image:url(/rp/aEIX3ul9gwY0f2HW1RKDZD2xqCE.svg)}.b_pa_ind_chev.right:hover{backgr
ound-image:url(/rp/E-Z-5a58Tr01Gv0dz1-0Mc32imE.svg)}.pa_item.pa_vCard
.pa_price
.prc_clr_grn{color:#006d21}.pa_hover
.pa_price
.prc_clr_grn{color:#006d21}.pa_price
.original_price{padding-left:8px;text-decoration:line-through;font-size:11px;vertical-align:top}.pa_price
.horizontal_converted_price{line-height:17px;font-size:11px;padding-left:8px}.vertical_converted_price{line-
height:17px;font-size:11px}.pa_price
.mob_horizontal_converted_price{line-height:17px;font-size:11px;padding-left:8px}.mob_vertical_converted
_price{line-height:17px;font-size:11px;padding-left:8px}.pa_img_slidec{max-width:100%}.pa_img_slides{di
splay:flex;position:relative;transition:left
.3s;left:0}.pa_img_slide{display:flex;justify-content:center;flex-shrink:0;flex-grow:0}.pa_img_slidec
.pa_img_slides
.pa_img_slide
img{margin-left:0;margin-right:0;transform:none}.b_secondaryText
.pa_targ{line-height:20px}.pa_ml
.pa_targ
img.pa_targImage,.pa_sb
.pa_targ
img.pa_targImage{float:left;margin:2px 2px 0 0}.pa_targ
.pa_tgt_icon{display:inline-block;margin:3px 2px 0
0;width:12px;height:12px}.pa_targ
.pa_shipping_icon{background-image:url("
wAAAAMCAYAAABWdVznAAAA1UIEQVR4AY1S0Q2CMBC9Fj74ZATZQEduAzcQvwlQJ9ANbCAkf
OIkjuAKjNBvEqjviJhKjOkITdt37/Ve7iryPFdCiAsRxfQjrLXnuq71cg9Bvg3DkLRt26/JSqnNNE1PHD8CKor
C0p/gPC92wndJHiGITOCkRMXYS6C17rF1sFeGPgLHtvESVFUIFqGXJTFmCuhAyu3lkuM4XpumuTsYZV
l2ZiZPAokHElvMYhdFETI9T4HtFwycDkM8yCAITquq5r27kzcgG35AOJbm7wFLyrH0hTH3BREqamOtXf
Q1AAAAAEIFTkSuQmCC"))}.b_dark
.pa_targ
.pa_shipping_icon{background-image:url("
wAAAANCAyAAACdKY9CAAAACXBIWXMAAAAsTAAALEwEAmpwYAAAAAXNSR0IArs4c6QAA
AARnQU1BAACxjwv8YQUAAADXSURBVHgBjZHBdYJAEV3Re6WsCVI4MINKzF2oBVQgnaAVqB
UwJEDECyBEvZMAuv/BBikYnYSMsObmZ0/u7Kua9X3/VGsWNU2jzAMm+l/g+LMGKNW6pXrus8vUpa
lEX+M+aq44jzP1TBB2BknJdYNvu+f6IuikKwaKAlOSyljW0kCxW+4yGrpebXlgLfYdV3Ht9CO46Se5+kZG/
JkjCIJ8G73mNsNMYCPhnZnYxNgzRsfga8BkEglxIWjEvfJpAR4OMpDQpPv9gkiScd0J0ifGGHyxqjfQCw/
```

XdSIXPndwAAAABJRU5ErkJggg==").pa_targ

.pa_pricedrop_icon{background-image:url(" hF8R3I2zwNWAAAAAEIftkSuQmCC").b_dark .pa_targ

.pa_pricedrop_icon{background-image:url(" Eeul0+rzZbD6MCEEQjOVyuSbJXQDXAG5FREguACiKyKkxptZqtT5MvV5PZ7PZC5LrqrinFtW1SMRqT nnlkiuktMkqRbqVRSZjAYnIjIXCaTKbfb7aswDCNjzKOqPllrO977S5IbAOYLhcKxEZEDknuNRuM1DM OyiGynUqmiqu6S3LHWrrnvXwDskzw0cRyXvPddADDGTAAAY5PP5+36/fwfgDcAkADjnzobDYXGkUrVa HVfVGwA9AIbkdBzHpSiK3n/M+iVNqWpAkkmSRJ1O5/mv3/2OT2YVjsqITb0WAAAAAEIftkSuQmCC')}).b_dark .pa_targ

.pa_topview_icon{background-image:url(" Eeul0+rzZbD6MCEEQjOVyuSbJXQDXAG5FREguACiKyKkxptZqtT5MvV5PZ7PZC5LrqrinFtW1SMRqT nnlkiuktMkqRbqVRSZjAYnIjIXCaTKbfb7aswDCNjzKOqPllrO977S5IbAOYLhcKxEZEDknuNRuM1DM OyiGynUqmiqu6S3LHWrrnvXwDskzw0cRyXvPddADDGTAAAY5PP5+36/fwfgDcAkADjnzobDYXGkUrVa HVfVGwA9AIbkdBzHpSiK3n/M+iVNqWpAkkmSRJ1O5/mv3/2OT2YVjsqITb0WAAAAAEIftkSuQmCC')}).b_dark .pa_targ

.pa_topview_icon{background-image:url(" TzBew+jKa0FQRd2wzZ2FjaidjZBEMTGSq8QvIPd27EwK5vFTDfz//PflCiYowfiYS97lxXGUQkqOqd936 /Pc8AxuPxZkopBw6ANQAz+01UvQU2/gwhhK2U0ruIVM65SZ7nXwDe+55z7rGu69HixVcRGWbApYhU RVGcL/2qeg0Mp9Pp8+LiE3CVichhSumky1CW5U67TyndZF12pgvAlfBNOecSIARmGEEjeO97McbPrkFVj4 BZZmanInIPXDSgwLBZDCGsi8jIzCaquivtlBjjHNjuhH+b2ayu6+OqquZZWxGRAfBgZv2yLF/+Y1mCLYri zcz6QLUK/gcay2Kj1EE/gwAAAABJRU5ErkJggg==").b_dark .pa_targ

.pa_condition_icon{background-image:url(" TzBew+jKa0FQRd2wzZ2FjaidjZBEMTGSq8QvIPd27EwK5vFTDfz//PflCiYowfiYS97lxXGUQkqOqd936 /Pc8AxuPxZkopBw6ANQAz+01UvQU2/gwhhK2U0ruIVM65SZ7nXwDe+55z7rGu69HixVcRGWbApYhU RVGcL/2qeg0Mp9Pp8+LiE3CVichhSumky1CW5U67TyndZF12pgvAlfBNOecSIARmGEEjeO97McbPrkFVj4 BZZmanInIPXDSgwLBZDCGsi8jIzCaquivtlBjjHNjuhH+b2ayu6+OqquZZWxGRAfBgZv2yLF/+Y1mCLYri zcz6QLUK/gcay2Kj1EE/gwAAAABJRU5ErkJggg==").b_dark .pa_targ

.pa_condition_icon{background-image:url(" TzBew+jKa0FQRd2wzZ2FjaidjZBEMTGSq8QvIPd27EwK5vFTDfz//PflCiYowfiYS97lxXGUQkqOqd936 /Pc8AxuPxZkopBw6ANQAz+01UvQU2/gwhhK2U0ruIVM65SZ7nXwDe+55z7rGu69HixVcRGWbApYhU RVGcL/2qeg0Mp9Pp8+LiE3CVichhSumky1CW5U67TyndZF12pgvAlfBNOecSIARmGEEjeO97McbPrkFVj4 BZZmanInIPXDSgwLBZDCGsi8jIzCaquivtlBjjHNjuhH+b2ayu6+OqquZZWxGRAfBgZv2yLF/+Y1mCLYri zcz6QLUK/gcay2Kj1EE/gwAAAABJRU5ErkJggg==").b_dark .pa_targ

wAAAAOCAyAAAAbv3sAAAACXBIWXMAAAAsTAAALEwEAmpwYAAAAAXNSR0IArs4c6QAAAA
RnQU1BAACxjwv8YQUAADwSURBVHgBrVHbDYJAEOR4/GMH2IEXCALL2IFUoCVoBcYKKEE70D
8SAjk6kBL85+VMAgYukS82gWV3Z4e5OcNYK/I8V1mW7fS++W+h67rYNM27vmTzpZTy2rZN8MmhO
2PEEtL2Vw9gJYR4WZa1DYJA8MEfJHoV8n6Q+EzT1LMBvqI++75/05gTzPZhGJasSeg4TiKw2YN5I6X8
GAsBJS4I3jz0IlALlwsldB7HDl2hpTqyaZoD0sOGnHhw6EIw6ju1T6UafMIZjnVdSzFIKYri3fe9p5FTcglwH
EVRZU8nZKbvtHJ0R4/ZTRNEMC011oovCux/EdBOneMAAAAASUVORK5CYII=")}.pa_targ
.rms_img,.pa_targ_text{vertical-align:top}.pa_hov_border
.pa_targ_longtext{font-size:12px;line-height:14px}.pa_addToCart{font-style:normal;font-weight:normal}.pa_
addToCart cite{color:#131aa4!important}.pa_addToCart
.pa_addToCartIcon{float:left;padding-right:1px;margin-bottom:0}.b_slideexp
.b_hoverFading{background:linear-gradient(90deg,rgba(255,255,255,.4) 0%,#fff
80%);position:absolute;top:0;right:-40px;width:40px;height:100%}.b_dark .b_slideexp
.b_hoverFading{background:linear-gradient(90deg,rgba(27,26,25,.4) 0%,#fff
80%)}.b_slideexp.hoverFading:hover .b_overlay>div:nth-child(3){width:calc(100%
+ 40px)}#slideexp5_3205C4 .slide { width: 140px; margin-right: 16px; }#slideexp5_3205C4c .b_slidebar .slide
{ border-radius: 6px; }#slideexp5_3205C4 .slide:last-child { margin-right: 1px; }#slideexp5_3205C4c {
margin: -4px; } #slideexp5_3205C4c .b_viewport { padding: 4px 1px 4px 1px; margin: 0 3px; }
#slideexp5_3205C4c .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); } #slideexp5_3205C4c .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); } #slideexp5_3205C4c .b_slidebar
.slide.see_more .carousel_seemore { border: 0px; }#slideexp5_3205C4c .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); }SponsoredSee
Solar Energy System Connected to the GridNew Energy Grid Connected ...Wholesale Factory Price Solar PV
550W Module Mono Panel Solar Cell Solar Power Panel System\$0.10New Energy Grid Connected Wholesale
Factory Price Solar PV 550W Module ...Mono Panel Solar Cell Solar Power Panel System

In six simple steps, learn how to connect solar panels to the grid using the correct equipment to safely transport electricity to your home.

Grid-connected PV systems are installations in which surplus energy is sold and fed into the electricity grid. On the other hand, when the user needs electrical power from which the PV solar panels generate, they can take energy from the utility company. In the case of ...

Learn everything about grid-tied solar systems: how they work, costs, installation, and benefits. Complete 2025 guide with real examples and expert insights.

What is an On-Grid Solar System? A grid-connected solar system, also known as an on-grid or grid-tied solar system, is a ...



Solar energy system connected to the grid

Source: <https://bakvestcivilconstruction.co.za/Thu-18-Dec-2025-26357.html>

Website: <https://bakvestcivilconstruction.co.za>

Web: <https://bakvestcivilconstruction.co.za>

