



Graphene solar panel manufacturer

Amounts shipped is dependent on shipping availability. (Roughly 3-5 MW per shipment, can be more or less) For more information or to place an order, please fill out the contact form below. Amounts shipped is dependent on shipping availability. (Roughly 3-5 MW per shipment, can be more or less) For more information or to place an order, please fill out the contact form below. A concise, regularly updated guide to notable graphene companies--covering producers, integrators, and application specialists across batteries, coatings, composites, and electronics. Why Track Graphene Companies? Graphene's combination of strength, electrical/thermal conductivity, and low weight Graphene increases power production by up to 30% when compared to other types of solar panels. This patented technology is covered by an amazing 30-year warranty that covers all parts and labor. A home with an average bill of \$200 a month will pay over \$100,000+ in electricity to power the home for Andwelé Energy is proud to introduce QueenGraf, the first solar panel in the world to feature Graphene. Graphene increases power production by up to 30% over other solar panels. This patented technology is covered by Andwelé Energy's industry-leading 30-Year Warranty that covers parts and labor! At American Graphene, we are pioneering the future of nanomaterials with our proprietary technology, meticulously crafting pristine semiconductor-grade single-layer graphene sheets that are poised to revolutionize technology as we know it. Our graphene represents the pinnacle of nanotechnology Our equipment is made with a material called Graphene, a thin layer of carbon that is lightweight, flexible, strong, highly conductive, and transparent. The characteristics of Graphene offer benefits to solar modules, especially compared to traditional bus bar technology in durability, power, and Graphene Solar Panels Amounts shipped is dependent on shipping availability. (Roughly 3-5 MW per shipment, can be more or less) For more information or to place an order, please fill out the contact form below. Top Graphene Companies : Best Graphene Manufacturersgraphene vs silicon solar panelsgraphene solar panels manufacturersfreevolt graphene solar panels solar cell graphene applicationgraphene solar radiation absorptiontransparent grapheneDeep dive into Graphene solar panel manufacturergraphene vs silicon solar panelsgraphene solar panels manufacturersfreevolt graphene solar panels solar cell graphene applicationgraphene solar radiation absorptiontransparent graphenegraphene solar technologiesgraphene for solar cellsSome results have been removed.sb_pagP_bp:after{transform-origin:-430px 0}.sb_pagP_bp:hover:after,.sb_pagP_bp:active:after,.sb_pagP_bp:focus:after{transform-origin:-514px 0}.sb_pagN_bp:after{transform-origin:-430px 0}.sb_pagN_bp:hover:after,.sb_pagN_bp:active:after,.sb_pagN_bp:focus:after{transform-origin:-514px 0}.sb_inactP:after,.sb_inactP:hover:after{transform-origin:-598px 0}.b_pag a{display:block;text-align:center}.b_pag a.sb_bp{min-width:40px;margin-right:20px;line-height:42px}.b_pag a.sb_pagN,.b_pag a.sb_pagP{border:0;padding:1px}.b_pag a.sb_pagN_bp,.b_pag a.sb_pagP_bp{width:40px;height:40px;margin-top:0}.b_pag a.sb_bp.sb_inactP{min-width:38px}.b_pag a.sb_pagP_bp.sb_inactP{width:38px}.b_pag a.b_roths{transform:rotate(180deg)}.b_pag .sw_prev,.b_pag .sw_next{margin:2px}@media screen and (forced-colors:active){.sb_pagN:after,.sb_pagP:after{content:""}li.b_pag



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a.sb_pagN,li.b_pag a.sb_pagP{width:auto}li.b_pag a.b_roths{transform:rotate(0deg)}.b_pag
.sw_next,.b_pag .sw_prev{display:block}}z{a:1}Pagination123Next#b_content #b_context >
.b_ans{background-color:transparent;}#b_content #b_results.b_kcwptheme > li .b_deep h3
a{color:#1358A9;}#b_content #b_results.b_kcwptheme > li h2 a{color:#1358A9;}#b_content
#b_results.b_kcwpthemeb > li .b_deep h3 a:hover{color:#1358A9;}#b_content
#b_results.b_kcwpthemeb > li h2 a:hover{color:#1358A9;}#b_content .l_ecrd_bt_rings_img
.cico{border-radius:50%;overflow:hidden;position:relative;}#b_context .kcm-dtab-name-icon
path{fill:#1358A9 !important;}#b_context .l_ecrd_vqfcts .b_module_expansion
.b_expansion_wrapper{border:0;height:auto;margin-top:16px;}#b_context .l_ecrd_vqfcts
.b_onpage_expansion .b_expansion_chevron{top:2px;}#b_context .l_ecrd_vqfcts
.b_onpage_expansion .b_expansion_chevron svg{height:12px;}#b_context .l_ecrd_vqfcts
.b_onpage_expansion .b_expansion_text{color:#444;font-size:13px;font-weight:700;line-
height:18px;}#b_context .l_ecrd_vqfcts.whitespace .b_module_expansion
.b_expansion_wrapper{margin-top:4px;}#b_results .lite-entcard-blk
.l_ecrd_simgset{padding:16px 1px;}#b_results>li .l_ecrd_simgset
a.l_ecrd_rq_bttx{color:var(--smtc-foreground-content-neutral-primary);}#b_topw ~ aside
#b_context .b_ans:first-child .l_ecrd_nt{margin-top:10px;}#bpage.b_drk .l_ecrd_vqfcts
.l_ecrd_vqfcts_stock_up{color:#60BD84;fill:#60BD84;}#bpage:not(.b_drk) .lite-entcard_f05f0
div.l_ecrd_vqfcts_row .lc_expfact a,#bpage:not(.b_drk) .lite-entcard_f05f0 div.l_ecrd_vqfcts_row
.lc_expfact a:visited, .lite-entcard_f05f0 div.l_ecrd_vqfcts_row .lc_expfact a, .lite-entcard_f05f0
div.l_ecrd_vqfcts_row .lc_expfact a:visited, .lite-entcard_f05f0
.l_ecrd_vqfcts_lnk{color:#1358A9;}#bpage:not(.b_drk) .lite-entcard_f05f0 div.l_ecrd_vqfcts_row
a.lc_expfact_title, #bpage:not(.b_drk) .lite-entcard_f05f0 div.l_ecrd_vqfcts_row
a.lc_expfact_title:visited, .lite-entcard_f05f0 div.l_ecrd_vqfcts_row a.lc_expfact_title, .lite-
entcard_f05f0 div.l_ecrd_vqfcts_row a.lc_expfact_title:visited{color:#444;}#l_ecrd_bt_grad{--dar
k-color:hsl(212.39999999999998,70%,25%);--light-
color:hsl(212.39999999999998,100%,45%);}#shdlg #shdlg-main, #shdlg.wide div#shdlg-main{ba
ckground-color:unset;border:0;}#shdlg-sharesarea{background-color:#fff;}*:not(.l_ecrd_hero_ttl)
> div > a.l_ecrd_txt_lnk.l_ecrd_txt_hover:hover,*:not(.l_ecrd_hero_ttl) > div >
a.l_ecrd_item_hover:hover{color:var(--smtc-foreground-content-neutral-primary);}#b_dark
.l_ecrd_a1_officialsite{border-bottom:1px solid var(--brdcol);}#b_dark .l_ecrd_d3_svg
svg{stroke:#ddd;}#b_dark .l_ecrd_ftr_txt, .b_dark .lite-entcard-main .l_ecrd_ftr_txt a, .b_dark .lite-
entcard-main .l_ecrd_ftr_txt a:visited {color:#767676;}#b_dark .l_ecrd_imgpair_svg
svg{stroke:#ddd;}#b_dark .l_ecrd_mrabt_txt{color:#FAF9F8;}#b_dark
.l_ecrd_txt_gl{color:var(--smtc-foreground-content-neutral-primary);}#b_dark .l_ecrd_vqfcts
.l_ecrd_vqfcts_exch{color:#FFF;}#b_dark .l_ecrd_vqfcts
.l_ecrd_vqfcts_stock_down{color:#FF6666;fill:#FF6666;}#b_dark .lite-entcard-blk:not(:last-
child):not(.l_ecrd_bkg_bdrls), .b_dark .lite-entcard-main > div:not(:last-child) > .lite-entcard-
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blk:not(.l_ecrd_bkg_bdrls) {border-bottom-color:var(--cardsbk);} .b_dark .lite-entcard-
main{background-color:#f7f7f7;box-shadow:0 0 0 1px #E1E1E1, 0 2px 3px 0 #E1E1E1;} .b_dark
.lite-entcard-main, .b_dark .lite-entcard-main a, .b_dark .lite-entcard-main a:visited
{color:#444;} .b_dark .lite-entcard_f05f0 .l_ecrd_tabtbl .tfil-active, #bpage.b_drk .lite-
entcard_f05f0 .l_ecrd_tabtbl .tfil-active{background-color:#B4E6FF !important;border:1px solid
#B4E6FF !important;color:#292827 !important;} .b_dark .lite-entcard_f05f0
.l_ecrd_hov_thm:hover{background-color:unset;} .b_dark
a.l_ecrd_a1_seemorelink:link{color:var(--acf-color-fore-semantic-link);} .b_dark a.l_ecrd_a1_see
morelink:visited{color:var(--bing-smtc-ctrl-link-foreground-brand-alt-
visited);} .b_kcwpthemebg{background-color:#F6F9FC !important;} .kc-dtab-name{background-
color:#F6F9FC;border:1px solid #1358A9;} .kcm-dtab-name{background-
color:#F6F9FC;color:#1358A9;} .l_acf_car[data-wptds-carousel] li[data-wptds-carousel-
item]:has(.l_acf_car_imgset_cont:hover) > .l_acf_car_item .l_acf_car_tim
.l_acf_car_tim_dot,.l_acf_car[data-wptds-carousel] li[data-wptds-carousel-
item]:has(.l_acf_car_imgset_cont:focus) > .l_acf_car_item .l_acf_car_tim
.l_acf_car_tim_dot{background:#1358A9;} .l_acf_smry .l_ecrd_webicons >
div{overflow:visible;} .l_acf_smry .l_ecrd_webicons > div > a{display:block;outline-
offset:6px;overflow:hidden;position:relative;z-index:1;} .l_acf_smry .l_ecrd_webicons > div:focus-
within{outline:none;} .l_acf_smry .l_ecrd_webicons a .sp-tpwebicons{border-
radius:50%;overflow:hidden;} .l_ecrd_a1{padding:16px 20px;} .l_ecrd_a1 .spl_trnsths{padding-
top:var(--smtc-gap-between-content-small);} .l_ecrd_a1 div.SITE{padding:0 var(--smtc-gap-
between-content-x-small) 0 0;} .l_ecrd_a1_officialsite{border-bottom:none;padding:16px 20px;} .l
_ecrd_bkg_img{position:absolute;z-
index:-1;} .l_ecrd_bt_ring{left:0;position:absolute;top:0;} .l_ecrd_bt_rings_img
.spl_playIcon{bottom:0;height:34px;left:unset;right:0;top:unset;transition:all ease-in-out
.2s;width:34px;} .l_ecrd_bt_rings_item:hover
.spl_playIcon{transform:scale(1.1);} .l_ecrd_bt_rings_s{padding:16px 20px;} .l_ecrd_bt_rings_s
.l_ecrd_bt_ml_tit{font-size:20px;line-height:24px;margin-bottom:8px;} .l_ecrd_bt_rings_s .l_ecrd
_bt_rings_flex{column-gap:16px;display:flex;flex-wrap:nowrap;justify-content:center;row-
gap:8px;} .l_ecrd_bt_rings_s .l_ecrd_bt_rings_flex.l_ecrd_rings_flex_rr{flex-direction:row-
reverse;} .l_ecrd_bt_rings_s .l_ecrd_bt_rings_flex.l_ecrd_rings_flex_vc{align-
items:center;} .l_ecrd_bt_rings_s .l_ecrd_bt_rings_img{border-radius:50%;flex-
shrink:0;padding:7px;position:relative;} .l_ecrd_bt_rings_s
.l_ecrd_bt_rings_item{cursor:pointer;position:relative;transform:translateZ(0);} .l_ecrd_bt_rings_s
.l_ecrd_bt_rings_sttl{-webkit-box-orient:vertical;-webkit-line-clamp:3;display:-webkit-box;font-s
ize:13px;font-weight:400;line-height:20px;overflow:hidden;padding-top:4px;text-
align:left;} .l_ecrd_bt_rings_s .l_ecrd_bt_rings_ttl{-webkit-box-orient:vertical;-webkit-line-clamp:
2;display:-webkit-box;font-size:18px;font-weight:700;line-height:22px;overflow:hidden;text-
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align:left;}.l_ecrd_bt_rings_s .l_ecrd_txt_gl{display:block;padding-
bottom:12px;}.l_ecrd_d3{padding:16px 20px;}.l_ecrd_d3_fct2{padding-
bottom:16px;}.l_ecrd_d3_fct3{clear:both;}.l_ecrd_d3_fct3 .l_ecrd_imgpair_img{padding-
top:16px;}.l_ecrd_d3_fct_l .l_ecrd_d3_img{float:right;padding-bottom:12px;padding-
left:12px;position:relative;z-index:1;}.l_ecrd_d3_fct_r .l_ecrd_d3_img{float:left;padding-bottom:
12px;padding-right:12px;position:relative;z-
index:1;}.l_ecrd_d3_svg{display:flex;}.l_ecrd_d3_svg svg{height:1px;padding-
bottom:16px;padding-top:16px;stroke:#DDD;stroke-width:2px;width:calc(100%
+
20px);}.l_ecrd_ftr{display:flex;padding:12px
20px;position:relative;}.l_ecrd_ftr_seemore{background:#FFF;border:1px solid;border-
radius:18px;bottom:-16px;font-weight:700;left:0;line-height:18px;margin:auto;padding:4px
16px;position:absolute;right:0;width:fit-content;z-index:1;}.l_ecrd_ftr_txt a,.l_ecrd_ftr_txt
a:visited{text-decoration:underline;}.l_ecrd_ftr_txt,.l_ecrd_ftr_txt a,.l_ecrd_ftr_txt
a:visited,.fdbtext{color:#444;font-size:11px;line-height:15px;}.l_ecrd_ftr_txt.hover_underline
a,.l_ecrd_ftr_txt.hover_underline a:visited{text-decoration:none;}.l_ecrd_ftr_txt.hover_underline
a:hover{text-decoration:underline;}.l_ecrd_hero{padding-top:1px;}.l_ecrd_hero .cico{border-
radius:0;}.l_ecrd_hero .l_ecrd_rel .cico{overflow:visible;}.l_ecrd_hero .l_ecrd_rel .cico
a{display:inline-block;}.l_ecrd_hero .l_ecrd_webicons{direction:ltr;margin-left:var(--mai-smtc-
padding-card-default);margin-top:-14px;position:relative;}.l_ecrd_hero .l_ecrd_webicons >
div{box-shadow:0 1px 4px 1px rgb(0 0 0 / 25%);}.l_ecrd_hero .l_ecrd_webicons > div:hover{box-
shadow:0 1px 4px 1px rgb(0 0 0 / 40%);transform:scale(1.10,1.10);transition:all ease-in-out
.2s;}.l_ecrd_hero .l_ecrd_webicons_with_title_hover{direction:ltr;margin-left:var(--mai-smtc-
padding-card-default);margin-top:-14px;position:relative;z-index:2;}.l_ecrd_hero
.l_ecrd_webicons_with_title_hover .l_ecrd_webicon_with_title_item{box-shadow:0 1px 4px 1px
rgb(0 0 0 / 25%);}.l_ecrd_hero .spl_share{bottom:40px;color:var(--mai-smtc-foreground-ctrl-on-i
mage-rest);position:absolute;right:var(--smtc-gap-between-content-x-small);z-
index:1;}.l_ecrd_hero .spl_share a,#b_content .spl_share a{background:rgba(0, 0, 0, .7);border-ra
dius:var(--smtc-corner-card-rest);color:var(--mai-smtc-foreground-ctrl-on-image-
rest);}.l_ecrd_hero .spl_share svg{fill:var(--mai-smtc-foreground-ctrl-on-image-rest);margin:var(-
-smtc-gap-between-content-x-small);stroke:var(--mai-smtc-foreground-ctrl-on-image-rest);width:v
ar(--smtc-gap-between-content-small);}.l_ecrd_hero.cliphero{padding-
top:0;}.l_ecrd_hero.cliphero .l_ecrd_rel{border-top-left-radius:var(--mai-smtc-corner-list-card-nes
ted-default);border-top-right-radius:var(--mai-smtc-corner-list-card-nested-default);display:content
s;overflow:unset;}.l_ecrd_hero.kcHeroClip{clip-
path:url(#kcHeroClip);}.l_ecrd_hero_smi{background:rgba(0, 0, 0, .7);border-radius:var(--smtc-c
orner-card-rest);color:var(--mai-smtc-foreground-ctrl-on-image-rest);height:var(--smtc-gap-betwe
en-content-small);padding:var(--smtc-padding-ctrl-sm-horizontal-
default);position:absolute;right:var(--smtc-padding-ctrl-sm-horizontal-default);}.l_ecrd_hero_smi
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> div{float:right;font:var(--bing-smtc-text-global-caption1);margin-left:var(--smtc-gap-between-
content-x-small);margin-top:-8px;}.l_ecrd_hero_smi > svg{float:left;}.l_ecrd_hero_ttl,l_ecrd_her
o_subttl,l_ecrd_hero_desc,l_ecrd_txt_bld{font-weight:bold;}.l_ecrd_hero_txt{left:var(--mai-
smtc-padding-card-default);position:absolute;z-index:1;}.l_ecrd_hero_txt > div:not(:last-of-
type){margin-bottom:var(--smtc-gap-between-content-x-small);}.l_ecrd_hero_txt,#b_content
.l_ecrd_hero_txt p,.lite-entcard-main .l_ecrd_hero_txt div,.lite-entcard-main .l_ecrd_hero_txt
a,.lite-entcard-main .l_ecrd_hero_txt a:visited,.lite-entcard-head .l_ecrd_hero_txt div,.lite-entcard-
head .l_ecrd_hero_txt a,.lite-entcard-head .l_ecrd_hero_txt a:visited,#bpage.b_drk .lite-entcard-
head .l_ecrd_hero_txt a,#bpage.b_drk .lite-entcard-head .l_ecrd_hero_txt a:visited{color:#fff;}.l_e
cprd_hero_txt.l_ecrd_hero_txt_bottom{bottom:10%;}.l_ecrd_hero_txt.l_ecrd_hero_txt_bottom_clai
m{bottom:0px;}.l_ecrd_hero_txtmsk{text-shadow:0 0 40px rgb(0 0 0), 0 0 20px rgb(0 0 0 / 50%),
0 0 10px rgb(0 0 0 / 20%);}.l_ecrd_hov{min-height:30px;position:fixed;text-
align:left;visibility:hidden;width:233px;}.l_ecrd_hov .l_ecrd_hov_qna .l_ecrd_hov_qna_site_txt{f
ont-size:13px;font-weight:700;line-height:20px;overflow:hidden;text-overflow:ellipsis;white-
space:nowrap;}.l_ecrd_hov.lc_hoverhook{box-shadow:0 4px 12px 0 rgb(0 0 0 /
35%);}.l_ecrd_hov_qna .l_ecrd_txt{font-size:12px;line-
height:16px;position:relative;}.l_ecrd_hov_qna a{text-
decoration:none;}.l_ecrd_hov_qna_site{align-items:center;display:flex;padding:0 12px 12px
12px;}.l_ecrd_hov_qna_site .sp-tpwebicons.SITE{flex-shrink:0;padding:0 8px 0 0;}.l_ecrd_hov_q
na_site_fav{border-radius:4px;flex-shrink:0;height:20px;margin-right:8px;overflow:hidden;width:
20px;}.l_ecrd_hov_qna_txt{padding:12px;position:relative;}.l_ecrd_hov_qna_txt
p{position:relative;}.l_ecrd_imcolheader .l_ecrd_webicon_with_title_txtside{box-shadow:0 1px
4px 1px rgb(0 0 0 / 25%);}.l_ecrd_imcolheader .l_ecrd_webicons_with_title_hover{margin-
left:-12px;padding-bottom:16px;}.l_ecrd_imcolheader .l_ecrd_webicons_with_title_hover
.l_ecrd_webicon_with_title_item{box-shadow:0 1px 4px 1px rgb(0 0 0 /
25%);}.l_ecrd_imcolheader.gradient .l_ecrd_claimed_thumb svg path, .l_ecrd_hero
.l_ecrd_claimed_thumb svg path{fill:#FFF;}.l_ecrd_imcolheader.gradient
.l_ecrd_claimed_tip:hover:before, .l_ecrd_imcolheader.gradient
.l_ecrd_claimed_tip:hover:after,.l_ecrd_hero .l_ecrd_claimed_tip:hover:before,.l_ecrd_hero
.l_ecrd_claimed_tip:hover:after{background-
color:#FFF;color:#444;}.l_ecrd_imcolheader.gradient .l_ecrd_webicon_with_title_txtside{box-
shadow:0 1px 4px 1px rgb(0 0 0 / 25%);margin-top:-12px;}.l_ecrd_imcolheader.gradient
.l_ecrd_webicon_with_title_txtside:hover{box-shadow:0 1px 4px 1px rgb(0 0 0 /
40%);transform:scale(1.10,1.10);transition:all ease-in-out .2s;}.l_ecrd_imcolheader.gradient
.l_ecrd_webicons_with_title_hover .l_ecrd_webicon_with_title_item{box-shadow:0 1px 4px 1px
rgb(0 0 0 / 25%);margin-top:-12px;}.l_ecrd_img_m{margin-bottom:auto;margin-
top:auto;}.l_ecrd_imgpair{align-items:center;display:flex;flex-flow:row wrap;}.l_ecrd_imgpair.l
ecrd_imgpair_f{display:inline-block;width:100%;}.l_ecrd_imgpair.l_ecrd_imgpair_ttop{align-
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items:start;}.l_ecrd_imgpair_cont{flex-basis:0;flex-grow:1;}.l_ecrd_imgpair_l
.l_ecrd_img_f{float:left;}.l_ecrd_imgpair_l .l_ecrd_imgpair_img, html[dir = 'rtl']
.l_ecrd_imgpair_r .l_ecrd_imgpair_img{padding-left:0px;padding-right:12px;}.l_ecrd_imgpair_l
.l_ecrd_imgpair_svg svg{margin-right:-20px;}.l_ecrd_imgpair_l .l_ecrd_imgpair_txt{text-
align:right;}.l_ecrd_imgpair_l .l_ecrd_tud{float:right;}.l_ecrd_imgpair_r .l_ecrd_imgpair_img,
html[dir = 'rtl'] .l_ecrd_imgpair_l .l_ecrd_imgpair_img{padding-left:12px;padding-
right:0px;}.l_ecrd_imgpair_r .l_ecrd_imgpair_svg svg{margin-left:-20px;}.l_ecrd_imgpair_r .l_ec
rd_imgpair_txt{text-align:left;}.l_ecrd_imgpair_svg{display:flex;padding-
bottom:16px;}.l_ecrd_imgpair_svg svg{height:1px;stroke:#DDD;stroke-
width:2px;width:calc(100% + 20px);}.l_ecrd_mrabt{display:block;padding:16px 20px 12px 20px;
}.l_ecrd_mrabt_txt{-webkit-box-orient:vertical;-webkit-line-clamp:2;color:#111111;display:-web
kit-box;font-size:20px;line-height:28px;margin-bottom:4px;overflow:hidden;padding-inline-end:2
0px;text-overflow:ellipsis;white-space:normal;word-break:break-word;}.l_ecrd_mttl{display:flex;
margin-bottom:var(--smtc-gap-between-content-medium);}.l_ecrd_mttl > div{flex:1 1
auto;}.l_ecrd_mttl > div:last-of-type{flex:0 0 auto;}.l_ecrd_mttl svg{margin-top:-1px;vertical-align:
middle;}.l_ecrd_newdesc.l_ecrd_a1{color:var(--smtc-foreground-content-neutral-
secondary);display:block;margin:0;padding:0;text-decoration:none;}.l_ecrd_newdesc.l_ecrd_a1
.l_wptnewdesc .l_ecrd_see_more{color:var(--bing-smtc-foreground-content-brand-
rest);}.l_ecrd_newdesc.l_ecrd_a1 .l_wptnewdesc .l_ecrd_see_more:hover{text-
decoration:underline;}.l_ecrd_newdescweb.l_ecrd_webicons_with_title_A1.non-acf-web-icon .l_e
crd_webicons_with_title_SingleWrapper{display:flex;flex-direction:row;gap:var(--smtc-gap-
between-content-x-small);height:fit-content;}.l_ecrd_poleheader .kc-dtab-name{background-
color:#FFF;border:1px solid #1358A9;}.l_ecrd_poleheader .kc-dtab-name-active{background-
color:#FFF;border:1px solid #166CCF;}.l_ecrd_poleheader .kc-dtab-name-active
.l_ecrd_thmtxt{color:#FFF;}.l_ecrd_poleheader.lightbg .l_ecrd_rel{background-color:#F6F9FC;}.
l_ecrd_rel{position:relative;}.l_ecrd_rq_bttx{font:var(--bing-smtc-text-global-
caption1-strong);}.l_ecrd_simgset{padding:var(--smtc-gap-between-content-medium) var(--mai-
smtc-padding-card-default);}.l_ecrd_simgset .l_ecrd_imgsetgrid_ttl{margin-bottom:var(--smtc-
gap-between-content-medium);}.l_ecrd_simgset .l_ecrd_simgset_item_data{margin-
top:var(--smtc-gap-between-content-x-small);}.l_ecrd_simgset .l_ecrd_simgset_item_data > div{-
webkit-box-orient:vertical;-webkit-line-clamp:2;display:-webkit-box;overflow:hidden;text-
overflow:ellipsis;}.l_ecrd_simgset a{outline-offset:-1px;}.l_ecrd_simgset li{display:inline-block;
margin-right:var(--smtc-gap-between-content-x-small);overflow:hidden;vertical-
align:top;}.l_ecrd_simgset li .cico{border-radius:var(--mai-smtc-corner-list-card-nested-
default);}.l_ecrd_simgset li:last-of-type{margin-right:0px;}.l_ecrd_simgset
ul{direction:ltr;}.l_ecrd_simgset.l_ecrd_simgset_circle .l_ecrd_simgset_item_data{text-
align:center;}.l_ecrd_simgset.l_ecrd_simgset_circle li .cico{border-
radius:50%;}.l_ecrd_tmIn_itm:hover .l_ecrd_brdr_thm.l_ecrd_tmIn_bullet{background:#1358A9;
```



Graphene solar panel manufacturer

```
.l_ecrd_tud{float:left;padding-top:8px;}l_ecrd_tud a,l_ecrd_tud a:link{color:#001BA0;}l_ecrd
_txt_gl{color:var(--smtc-foreground-content-neutral-primary);font:var(--acf-font-
title-1-strong);}l_ecrd_txt_herol, .l_ecrd_txt_large{font-size:60px;line-height:60px;}l_ecrd_txt_
hlt{font-size:18px;font-weight:bold;line-
height:24px;}l_ecrd_txt_lnk.l_ecrd_txt_hover.l_ecrd_hov_hitbox, .l_ecrd_hov_hitbox p{display:i
nline;}l_ecrd_txt_ttl,l_ecrd_txt_bld,l_ecrd_txt_qfttl,l_ecrd_txt_modttl,l_ecrd_txt_heroxl,l_ecr
d_txt_herol,l_ecrd_txt_herom,l_ecrd_txt_heros,l_ecrd_txt_heroxs,l_ecrd_txt_heroxxs,l_ecrd_q
fcts_prim,l_ecrd_bqfcts_txt.lite-entcard-exp-tit h2{font-
weight:bold;}l_ecrd_vqfcts{padding:16px 20px;}l_ecrd_vqfcts
.b_collapse{display:none;}l_ecrd_vqfcts .b_module_expansion{margin:0 0;}l_ecrd_vqfcts
.b_module_expansion_control{padding:0;}l_ecrd_vqfcts
.l_ecrd_vqfcts_exch{color:#767676;}l_ecrd_vqfcts
.l_ecrd_vqfcts_stock_down{color:#C80000;fill:#C80000;}l_ecrd_vqfcts
.l_ecrd_vqfcts_stock_up{color:#3B840C;fill:#3B840C;}l_ecrd_vqfcts .lc_expfact
.lc_expfact_title{font-size:13px;}l_ecrd_vqfcts.whitespace .l_ecrd_vqfcts_row:after{border-
bottom:1px solid transparent;content:"
";display:block;width:100%;}l_ecrd_vqfcts.whitespace.line
.l_ecrd_vqfcts_row.l_ecrd_vqfcts_row_nodivider:nth-last-child(1):after{border-bottom:1px solid
transparent;}l_ecrd_vqfcts.whitespace.line .l_ecrd_vqfcts_row:after{border-bottom:1px solid
#ececec;margin-bottom:8px;margin-top:8px;}l_ecrd_vqfcts.whitespace.thin
.l_ecrd_vqfcts_row:after{display:none;}l_ecrd_vqfcts.whitespace.thin .l_ecrd_vqfcts_row_space{
margin-top:4px;}l_ecrd_vqfcts_row_space{margin-top:8px;}l_ecrd_webicon_module_item{bord
er-radius:9999px;flex-shrink:0;height:28px;width:28px;}l_ecrd_webicon_module_item > a{borde
r-radius:9999px;display:inline-block;outline-
offset:2px;overflow:hidden;}l_ecrd_webicon_module_wrapper:hover .l_ecrd_webicon_module_it
em_title{text-decoration:underline;}l_ecrd_webicon_txtside{align-
items:center;display:flex;overflow:hidden;}l_ecrd_webicon_txtside .sp-webicons32
#salookinsidebooksvg{padding:8px;}l_ecrd_webicons{direction:ltr;display:flex;}l_ecrd_webico
ns > div{border-radius:9999px;flex-shrink:0;margin-
right:12px;overflow:hidden;}l_ecrd_webicons > div:focus-within{outline:auto;}l_ecrd_webicons
> div:last-of-type{margin-right:0;}l_ecrd_webicons a:hover{text-
decoration:none;}l_ecrd_webicons_with_title, .l_ecrd_webicons_with_title_Single{border-
top:1px solid var(--cardsbk);display:flex;padding-bottom:16px;padding-left:20px;padding-
top:16px;}l_ecrd_webicons_with_title_A1, .l_ecrd_webicons_with_title_Single_A1{display:flex;
padding-bottom:16px;padding-left:20px;padding-top:16px;}l_ecrd_webicons_with_title_SingleW
rapper{display:inline-flex;}l_ecrd_webicons_with_title_SingleWrapper > a{padding-
left:8px;padding-right:8px;}l_ecrd_webicons_with_title_SingleWrapper:hover
.l_ecrd_webicon_module_item{box-shadow:0 1px 4px 1px rgb(0 0 0 /
```



Graphene solar panel manufacturer

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40%);transform:scale(1.10,1.10);transition:all ease-in-out
.2s;}.l_ecrd_webicons_with_title_SingleWrapper:hover .l_ecrd_webicon_txtside{text-
-decoration:underline;}.lite-entcard-ans > div:last-child .l_ecrd_ftr{margin-bottom:28px;}.lite-
entcard-blk{clear:both;position:relative;}.lite-entcard-blk > div:not(.l_ecrd_bkg_img){position:rel
ative;}.lite-entcard-blk:empty{visibility:hidden;}.lite-entcard-blk:not(:first-
child){width:100%;}.lite-entcard-blk:not(:last-child):not(.l_ecrd_bkg_bdrls),.lite-entcard-main >
div:not(:last-child) > .lite-entcard-blk:not(.l_ecrd_bkg_bdrls){border-bottom:1px solid
#DDD;}.lite-entcard-main{border-radius:6px;box-shadow:0 0 0 1px rgba(0,0,0,.05), 0 2px 3px 0 r
gba(0,0,0,1);color:#444;font-size:13px;line-height:20px;margin-bottom:4px;width:100%;}.lite-
entcard-main a,.lite-entcard-main a:visited{color:#444;}.lite-entcard-main a:focus-visible
.bsimg{outline-offset:-2px;outline-style:auto;}.lite-entcard-mainp{-webkit-line-clamp:initial;}.lite-
entcard-maintop .l_ecrd_bt_rings_flex_np .l_ecrd_bt_rings_stl{font-size:14px;}.lite-entcard-
maintop .l_ecrd_bt_rings_s{border-radius:6px;box-shadow:0px 0px 0px 1px rgba(0, 0, 0,
0.05);margin:-15px -20px 0 -20px;padding:15px 20px;}.lite-entcard-maintop .l_ecrd_ftr{margin:0
20px 0 -20px;padding:12px 20px 4px 20px;}.lite-entcard-maintop .l_ecrd_ftr_txt a{text-
-decoration:none;}.lite-entcard-maintop .l_ecrd_rings_flex_ml .l_ecrd_bt_rings_ttl{color:#4007a2;
font-size:20px;font-weight:400;line-height:24px;}.lite-entcard-maintop l_ecrd_rings_flex_ml .l_ec
rd_bt_rings_stl{font-size:16px;line-height:24px;padding-bottom:8px;}.lite-entcard-
maintop.l_ecrd_ans_expand .lite-entcard-blk{border-top:1px solid #DDD;}.lite-entcard_f05f0
.l_ecrd_chart_bar_thm{background:linear-gradient(to bottom, #009BDE 0%, #1358A9
100%);}.lite-entcard_f05f0 .l_ecrd_tabtbl .tfil-active{background-color:#1358A9
!important;border:1px solid #1358A9 !important;}.lite-entcard_f05f0 .l_ecrd_bkg_hlt{background-
color:#F6F9FC;}.lite-entcard_f05f0 .l_ecrd_bkg_txltht{background-color:#1358A9;}.lite-
entcard_f05f0 .l_ecrd_brdr_thm{border-color:#1358A9;}.lite-entcard_f05f0
.l_ecrd_chart_hbar_thm{background:linear-gradient(to left, #009BDE 0%, #1358A9 100%);}.lite-
entcard_f05f0 .l_ecrd_hov .l_ecrd_hov_qna .l_ecrd_hov_qna_site_txt, .lite-entcard_f05f0
.l_ecrd_txt_hlt, .lite-entcard_f05f0 .sp-tpwebicons.sp-symbolicon.SRCH {color:#1358A9;}.lite-
entcard_f05f0 .l_ecrd_hov_thm:hover{background-color:#F6F9FC;}.lite-entcard_f05f0
.l_ecrd_hov_thmtxt:hover{color:#1358A9;}.lite-entcard_f05f0
.l_ecrd_thm_fill{fill:#F6F9FC;}.lite-entcard_f05f0 .l_ecrd_thmtxt, .lite-entcard_f05f0
a.l_ecrd_thmtxt, .lite-entcard_f05f0 a.l_ecrd_thmtxt:visited{color:#1358A9;}.lite-entcard_f05f0
.l_ecrd_tthm_fill{fill:#1358A9;}.lite-entcard_f05f0 .sp-ofsite, .lite-entcard_f05f0 .l_ecrd_product
.spl_stf, .lite-entcard_f05f0 .spl_trnsths, .lite-entcard_f05f0 .lc_expfact_plus, .lite-entcard_f05f0
.b_slidesContainer .seeAll_chev circle, .lite-entcard_f05f0 .sp-symbolicon
.gray50_fill{fill:#1358A9;}.lite-entcard_f05f0 .spl_trnsths a, .lite-entcard_f05f0 .spl_trnsths
a:visited{color:#1358A9;}.lite_acf .l_ecrd_hero .l_ecrd_rel .cico a{border-radius:var(--smtc-
corner-card-rest);display:flex;outline-offset:-2px;position:relative;}.lite_acf .l_ecrd_hero
.l_ecrd_rel .cico a:focus{outline:3px dotted #1AEBFF;outline-offset:-4px;}.lite_acf .l_ecrd_rel >
```



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a{display:flex;position:relative;}.lite_acf.lite-entcard_f05f0 .l_ecrd_hov_thm:hover{background-color:#F6F9FC;}.spl-car-tmln-container:hover.spl-car-tmln-dot{background:#1358A9;}.a.ent-dtab-btn{background-color:var(--AC_ThemeBack2, #F6F9FC);border-color:var(--AC_ThemeFore1, #1358A9);color:var(--AC_ThemeFore1, #1358A9);}.a.ent-dtab-btn.active{background-color:var(--AC_ThemeFore1, #1358A9);border-color:var(--AC_ThemeFore1, #1358A9);color:var(--AC_ThemeBack2, #F6F9FC);}.a.ent-dtab-btn.ent-dtab-btn-hipo f-override.ent-dtab-tabuxv1{background-color:var(--AC_ThemeBack2, #F6F9FC);border-color:var(--AC_ThemeFore1, #1358A9);color:var(--AC_ThemeFore1, #1358A9);fill:var(--AC_ThemeFore1, #1358A9);}.a.l_ecrd_a1_seemorelink:link{color:var(--acf-color-fore-semantic-link);}.a.l_ecrd_a1_seemorelink:visited{color:var(--bing-smtc-ctrl-link-foreground-brand-alt-visited);}.a.l_ecrd_txt_lnk{text-decoration:none;}.a.l_ecrd_txt_lnk:hover*:not(.l_ecrd_txt_nound):not(p){text-decoration:underline;}.a:focus > .l_ecrd_hero_smi{border:1px solid var(--mai-smtc-foreground-ctrl-on-image-rest);}.a:hover .l_ecrd_hero_smi > div{text-decoration:underline;}.div.l_ecrd_imcolheader div.cico{z-index:1;}.html[dir='ltr'] .l_ecrd_webicon_module_wrapper, .l_ecrd_webicons_with_title_Single{padding-right:12px;}.html[dir='ltr'] .l_ecrd_webicon_module_wrapper, .l_ecrd_webicons_with_title_Single_A1{padding-right:12px;}.html[dir='ltr'] .l_ecrd_webicons_with_title > div:last-of-type{padding-right:0;}.html[dir='ltr'] .l_ecrd_webicons_with_title_A1 > div:last-of-type{padding-right:0;}.html[dir='rtl'] .l_ecrd_mttl svg{transform:scaleX(-1);}.html[dir='rtl'] .l_ecrd_simgset ul li{direction:rtl;}.html[dir='rtl'] .l_ecrd_tud{float:right;}.html[dir='rtl'] .l_ecrd_webicon_module_wrapper{padding-left:12px;}.html[dir='rtl'] .l_ecrd_webicons_with_title, .l_ecrd_webicons_with_title_Single{padding-right:20px;}.html[dir='rtl'] .l_ecrd_webicons_with_title_Single_A1, .l_ecrd_webicons_with_title_Single_A1{padding-right:20px;}.l_ecrd_webicon_module_item_title{display:block;font:11px/15px 'Roboto',Helvetica,Sans-Serif;padding-top:4px;text-align:center;}@media (prefers-color-scheme:dark){#bpage.b_med .l_ecrd_vqfcts .l_ecrd_vqfcts_exch{color:#FFF;}.#bpage.b_med .l_ecrd_vqfcts .l_ecrd_vqfcts_stock_down{color:#FF6666;fill:#FF6666;}.#bpage.b_med .l_ecrd_vqfcts .l_ecrd_vqfcts_stock_up{color:#60BD84;fill:#60BD84;}}@media only screen and (max-width:.9px){.l_ecrd_hero .l_ecrd_webicons{margin-top:-10px;}.l_ecrd_hero .l_ecrd_webicons_with_title_hover{margin-left:9px;margin-top:-12px;}.l_ecrd_hero .spl_share span{display:none;}.l_ecrd_hero_smi_txt{display:none;}.l_ecrd_hero_txt > div:not(:last-of-type){margin-bottom:0;}.l_ecrd_webicons > div{margin-right:8px;}.lite-entcard-main .l_ecrd_txt_herol{font-size:40px;line-height:40px;}.lite-entcard-main .l_ecrd_txt_herom{font-size:30px;line-height:30px;}.lite-entcard-main .l_ecrd_txt_heros{font-size:28px;line-height:28px;}.lite-entcard-main .l_ecrd_txt_heroxl{font-size:50px;line-height:50px;}.lite-entcard-main .l_ecrd_txt_heroxs{font-size:24px;line-height:24px;}.lite-entcard-main .l_ecrd_txt_heroxxs{font-size:20px;line-height:16px;}.#b_context .l_ecrd_simgset li:nth-of-
```



Graphene solar panel manufacturer

```
type(3){margin-right:0px;}#b_context .l_ecrd_simgset li:nth-of-type(4){display:none;}@media
only screen and (max-width:.9px){.l_ecrd_webicon_module_wrapper:nth-of-
type(n+5){display:none;}}@media only screen and (max-width:.9px){.l_ecrd_txt_herol{font-
size:50px;line-height:50px;}#b_context .l_ecrd_simgset li:nth-of-type(4){margin-
right:0px;}#b_context .l_ecrd_simgset li:nth-of-type(5){display:none;}}@media only screen and
(max-width:.9px) and (min-width:1269px){.l_ecrd_hero .l_ecrd_webicons{margin-
top:-12px;}.l_ecrd_hero_txt > div:not(:last-of-type){margin-bottom:var(--smtc-gap-between-
content-xx-small);}}@media only screen and (max-width:.9px) and (min-
width:1275px){.l_ecrd_webicon_module_wrapper:nth-of-type(n+6){display:none;}}@media only
screen and (min-width:.9px){.l_ecrd_vqfcts .l_ecrd_vqfcts_row:nth-child(even)
.lc_expfact{margin-left:4px;}.l_ecrd_vqfcts.l_ecrd_vqfcts_row:nth-child(odd).lc_expfact{margin-
right:4px;}.l_ecrd_vqfcts .l_ecrd_vqfcts_row{box-sizing:border-box;display:inline-
block;width:50%;}.l_ecrd_vqfcts.line .l_ecrd_vqfcts_row.l_ecrd_vqfcts_row_nodivider:nth-
child(odd):nth-last-child(2):after{border-bottom:1px solid transparent;}}@media screen and (-ms-
high-contrast:active){.l_ecrd_hero_smi svg path{fill:currentcolor;}}@media screen and (forced-
colors:active){.b_wpTabsWrapper .ent-dtab-content a.ent-dtab-btn.active{background:Highlight;c
olor:HighlightText;forced-color-
adjust:none;}}.entityPreview{position:fixed;width:300px;border:1px solid
#ddd;background:#fff;border-radius:8px;box-shadow:0 4px 12px 0 rgba(0,0,0,.1);z-index:6}a.entit
yPreview{text-decoration:none}a.entityPreview:active{background-
color:#ecec} .epv_caption{width:196px;position:absolute}.epv_data .cico{margin-
right:12px}.epv_data .cico,.epv_caption{display:inline-block}.epv_data img{border-
radius:6px}a.entityPreview .epv_data{padding:16px;min-
height:30px}.epv_content{height:100%}.epv_head{margin-bottom:12px}.epv_data .epv_desc{col
or:#444;line-height:18px}.epv_title{font-size:16px;line-height:20px;padding-bottom:4px;color:#1
11}.epv_Summary,.epv_subTitle{color:#666}#epvRup,#epvLup{top:-10px}#epvRdown,#epvLdo
wn{bottom:-20px}#epvLup,#epvLdown{left:20px}#epvRup,#epvRdown{right:20px}#epvRup,#e
pvLup,#epvRdown,#epvLdown{position:absolute;width:20px;height:20px}#epvRup
polyline,#epvRdown polyline,#epvLup polyline,#epvLdown polyline{fill:#fff;stroke:#ddd;stroke-
width:1px}.epv_content .b_icRatings.b_icRat_2{justify-content:space-around}.epv_content .b_ic
Ratings{margin-bottom:8px;color:#111;text-align:center;padding:0;display:-webkit-box;display:-
moz-box;display:-ms-flexbox;display:-webkit-flex;display:flex;justify-content:space-
between}.epv_content .b_icRatings .b_imagePair>div:last-child{display:inline-block;font-
weight:normal;vertical-align:top}.epv_content .b_icRatings .cico{margin-right:8px;padding-
right:0;border-radius:0}.epv_content td:nth-child(2){color:#111;font-weight:bold}.epv_content
td{padding:0;color:#666}.epv_content tr:not(:last-child) td{padding-bottom:4px}.epv_comp{marg
in-bottom:12px}.epv_relation{color:#444;padding-bottom:10px;border-bottom:1px solid
#ecec;margin-bottom:10px;line-height:18px}.res25654241 {line-height:0;}@media only screen
```



Graphene solar panel manufacturer

```
and (max-width:1274px){.res25654241,.res25654241 img{height:176px;width:296px;}}@media
only screen and (min-width:1275px) and (max-width:1362px){.res25654241,.res25654241
img{height:228px;width:384px;}}@media only screen and (min-
width:1363px){.res25654241,.res25654241 img{height:280px;width:472px;}}.sp-tpwebicons{wid
th:28px;height:28px}.sp-symbolicon>svg,.sp-ofsite{display:block}.sp-tpwebicons.SITE{padding-
right:8px}.sp-tpwebicons.SITE{width:16px;height:16px;padding:6px}.sp-tpwebicons.sp-
symbolicon{width:16px;height:16px;padding:6px}@media only screen and (max-width:.9px){.sp-
tpwebicons{width:24px;height:24px}.sp-tpwebicons.sp-
symbolicon{width:14px;height:14px;padding:5px}}@media only screen and (max-width:.9px){.s
p-tpwebicons{width:20px;height:20px}.sp-tpwebicons.sp-
symbolicon{width:12px;height:12px;padding:4px}}.lite-entcard-ans-m .sp-
tpwebicons{width:28px;height:28px}.lite-entcard-ans-m .sp-tpwebicons.sp-symbolicon{width:16p
x;height:16px;padding:6px}.b_descriptionSeeMore{padding-top:5px}.b_inlineblock{display:inlin
e-block}.b_descriptionSeeMore.b_inlineblock{padding-top:0}.b_bgdesc{font:16px/1.2em 'Segoe
UI',Arial,Helvetica,Sans-Serif;line-height:1.33em}.b_trans_padding{padding-
bottom:5px}.btm_sml a{line-height:16px;border-bottom-left-radius:6px;border-bottom-right-
radius:6px}.btm_sml{padding-bottom:10px}.btm_sml .expansionDefaultText,.btm_sml .expansio
nCustomizedText{display:inline-block;*display:inline;zoom:1}.expandChevronContainer{display
:inline-block;*display:inline}.expandChevronContainer.hasExpandText{line-height:16px;vertical-
align:middle}.btm_sml .expandChevronContainer>*{margin-left:8px;display:inline-
block;*display:inline}.btm_sml .sw_plus,.btm_sml .sw_minus,.sml .sw_plus,.sml
.sw_minus{display:inline-block;text-decoration:none;margin:0 5px 1px 0}.b_tblWithExpansion
.btm_sml,.b_tblWithExpansion .sml{padding-bottom:10px}.b_relative .btm_sml,.b_relative
.sml{letter-spacing:2px} line{display:inline-block;margin-left:4px;*display:inline;zoom:1}.sml
line .sw_plus,.sml line .sw_minus{margin:0}.hidden_nostyle{padding:0!important;margin:0!impo
rtant}.exp_slide{overflow:hidden;opacity:1;transition:height ease-in-out 350ms,opacity ease-in-
out 350ms}.exp_slide.b_hide{display:block;opacity:0;height:0!important;padding-top:0!important
;padding-bottom:0!important;margin-top:0!important;margin-bottom:0!important;border-
top:0!important;border-bottom:0!important}body.exp_scroll{transition:margintop ease-in-out
350ms}.b_ans .btm_sml{border-top:1px solid #cdcdcd}#b_context .b_ans .btm_sml{border-
top:1px solid #ebebcb}.b_ans.b_topborder .btm_sml{border-top:0}#b_results>.b_ans .btm_sml
a,#b_results>.b_ans .btm_sml a:visited,#b_context>.b_ans .btm_sml a,#b_context>.b_ans
.btm_sml a:visited{color:#444}.b_ans.b_top .btm_sml a,.b_ans.b_top .btm_sml
a:hover{background-color:transparent}.b_ans.b_topborder .btm_sml a{background-
color:#f9f9f9}.b_ans.b_topborder .btm_sml a:hover{background-color:#eee}.b_dark
.b_ans.b_topborder .btm_sml a,.b_dark .b_ans.b_topborder .btm_sml a:hover{background-
color:#323130}.b_ans.b_top .btm_sml{padding-bottom:10px}.b_ans.b_top .btm_sml a{margin-
bottom:0}.b_ans.b_topborder .btm_sml{padding-bottom:0}.b_ans.b_topborder .sydwrap_wrapper
```



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.btm_sml{padding-bottom:10px}.b_ans.b_topborder .btm_sml a{margin-bottom:-10px}.btm_sml
a{display:block}.b_ans .btm_sml a{line-height:40px;height:40px}.b_ans.b_topborder .btm_sml
a{line-height:48px;height:48px}.b_ans.b_topborder .btm_sml .newexpcont{height:32px;line-
height:32px}.b_sydConvMode .b_ans.b_topborder .btm_sml .newexpcont{height:48px;line-
height:32px}#b_results .b_ans:not(.b_top):not(.b_topborder) :not(.b_entityTP) .btm_sml
.b_mopexpref,#b_results .b_ans.b_mop .btm_sml .b_mopexpref{height:16px;line-
height:16px;color:#001ba0}.b_ans.b_topborder .btm_sml .b_segoeMDL2{font-family:"Segoe
MDL2 Assets"}.btm_sml{position:relative}#b_context .b_ans .btm_sml a{line-
height:40px;height:40px}.b_top .sa_cpoc .b_expando .btm_sml
.expandChevronContainer>*,#b_context .b_ans .btm_sml .expandChevronContainer>*{margin-
top:15px;margin-right:0;position:absolute;right:0;top:0}.sa_cpoc .b_expando .btm_sml{border-
top:1px solid #bbb}#b_results .b_top .sa_cpoc .b_expando .btm_sml .b_expDesk{text-
align:left}#b_results .b_top .sa_cpoc .b_expando .btm_sml a{margin:0}#b_results .b_top .sa_cpoc
.b_expando .btm_sml .expansionCustomizedText{color:#444}.b_top .sml answer a,.b_top
.btm_sml a{background-color:#f9f9f9;margin:0 -19px -10px -19px;display:block;text-
decoration:none;text-align:center}.b_top .sml answer a{line-height:35px;outline:0}.b_top
.btm_sml .leftAlign{text-align:left}.b_top .btm_sml a{line-height:40px;height:40px;vertical-
align:middle}.b_top .btm_sml{padding-bottom:0}.b_top .btm_sml a:hover,.b_top .sml answer
a:hover{background-color:#eee}.b_top .btm_sml a .expansionDefaultText{display:none;text-
align:center}.b_top .btm_sml .leftAlignWithPadding,.b_top .btm_sml a
.expansionCustomizedText{text-align:left;padding:0 0 0 19px;display:inline-
block;*display:inline;zoom:1}.b_sydConvMode .b_top .btm_sml
.leftAlignWithPadding,.b_sydConvMode .b_top .btm_sml a
.expansionCustomizedText{padding:0}.b_top .btm_sml .expandChevronContainer.hasExpandText
{line-height:40px;vertical-align:middle}.b_sydConvMode .b_top .btm_sml
.expandChevronContainer.hasExpandText{margin-top:-4px}.b_top .btm_sml
.expandChevronContainer.hasExpandText .smallLandscape{line-height:48px}.b_top .btm_sml
.expandChevronContainer>*{margin:0 19px 0 12px}.b_top .btm_sml
.expandChevronContainer.noExpandText>*{margin:0}#b_topw .btm_sml a,#b_topw .btm_sml
a:visited,#b_results>.b_top .btm_sml a,#b_results>.b_top .btm_sml a:visited{color:#444}.e_mhdr
.btm_sml a{padding:0;border-top:0;margin-top:10px}#b_results .b_expando .b_entityTP .btm_sml
a{height:40px;border-bottom-left-radius:6px;border-bottom-right-radius:6px}#b_results
.b_expando .b_entityTP .btm_sml a .expandChevronContainer{display:inline-block}#b_results
.b_expando .b_entityTP .btm_sml a .expandChevronContainer.hasExpandText{line-
height:16px;vertical-align:middle}#b_results .b_expando .b_entityTP .btm_sml a .expandChevron
Container>*{display:inline-block;position:absolute;right:0;top:0;margin-top:15px;margin-
right:0;margin-left:8px;box-shadow:none}#b_results .b_expando .b_entityTP .btm_sml a
.expandChevronContainer .evronUp,#b_results .b_expando .b_entityTP .btm_sml a
```



Graphene solar panel manufacturer

```
.expandChevronContainer          evronDown{overflow:hidden;line-
height:9px;height:9px;width:16px}#b_results .b_expando .b_entityTP .btm_sml a
.expandChevronContainer evronDown::after,#b_results .b_expando .b_entityTP .btm_sml a
.expandChevronContainer evronUp::after{position:relative}#b_results .b_expando .b_entityTP
.btm_sml a .expandChevronContainer evronDown::after,#b_results .b_expando .b_entityTP
.btm_sml a .expandChevronContainer evronUp::after{content:url(/rp/ak5A-kIzM-
v9JjRbH7FaoGRYoeEw.png)}#b_results .b_top .btm_sml
.expandChevronContainer.hasExpandText{margin-top:-4px}#b_results .b_top .btm_sml
.b_expDesk{height:48px}#b_results .b_top .btm_sml .b_expDeskNoText{height:32px}#b_results
.b_ans.b_topborder .btm_sml .newexpcont{height:auto}#b_results .b_topborder
evronContainerDown:hover{box-shadow:0 0 0 0 rgba(0,0,0,.05),0 2px 4px 1px
rgba(0,0,0,.18)}#b_results .b_topborder evronContainerDown,#b_results .b_topborder
evronContainerDown:active{box-shadow:0 0 0 0 rgba(0,0,0,.05),0 2px 3px 0
rgba(0,0,0,.1)}#b_results .b_topborder evronContainerUp:hover{box-shadow:0 0 0 0
rgba(0,0,0,.05),0 -2px 4px 1px rgba(0,0,0,.18)}#b_results .b_topborder
evronContainerUp,#b_results .b_topborder evronContainerUp:active{box-shadow:0 0 0 0
rgba(0,0,0,.05),0 -2px 3px 0 rgba(0,0,0,.1)}#b_results .b_top .btm_sml a
.expansionCustomizedText{padding:0}#b_results .b_top .btm_sml a
.b_expcol{padding:0;color:transparent}#b_results .b_top .sydwrap_wrapper .btm_sml a
.b_expcol{color:#444}#b_results .b_topborder .b_expwide{margin-left:50%}#b_results
.b_topborder .b_expChevTOP{margin-left:50%}#b_results .b_top .btm_sml.b_expV3,#b_results
.b_ans:not(.b_top):not(.b_topborder) :not(.b_entityTP) .btm_sml.b_expV3{display:flex;align-
items:center;justify-content:center}#b_results .b_ans:not(.b_top):not(.b_topborder)
:not(.b_entityTP) .btm_sml.b_expV3{padding-bottom:0}#b_results .b_top .btm_sml.b_expV3
a,#b_results .b_ans:not(.b_top):not(.b_topborder) :not(.b_entityTP) .btm_sml.b_expV3 a{box-
shadow:0 2px 3px 0 #000;box-shadow:0 2px 3px 0 rgba(0,0,0,.1);border:1px solid #ddd;color:#66
6;height:40px;line-height:40px;border-radius:20px;padding-left:20px;padding-
right:20px;background-color:#fff;margin-bottom:-30px}#b_results .b_top .btm_sml.b_expV3 a
svg,#b_results .b_ans:not(.b_top):not(.b_topborder) :not(.b_entityTP) .btm_sml.b_expV3 a
svg{padding-left:10px}#b_results .b_top .btm_sml.b_expV3 a:hover,#b_results
.b_ans:not(.b_top):not(.b_topborder) :not(.b_entityTP) .btm_sml.b_expV3 a:hover{box-shadow:0
2px 4px 1px #000;box-shadow:0 2px 4px 1px rgba(0,0,0,.14);border:1px solid
#ccc;color:#111}#b_results .b_top.b_tophb .btm_sml.b_expV3 a{margin-bottom:-35px}.cipt,.cipg
,.cipa,.cipl,.ciptr,.ciplr{display:inline-block}.cipa,.cipl,.ciplr{cursor:pointer}.vab{vertical-align:bot
tom}.vam{vertical-align:middle}.vat{vertical-align:top}.vabl{vertical-
align:baseline}.vatt{vertical-align:text-top;border-radius:0}.vatb{vertical-align:text-bottom}
evronDown12, evronUp12{background:url(/rp/QKITrql25sGDqfRyQjkMWJWDeG8.png) no-
repeat;background-size:494px 58px;width:12px;height:12px} evronDown12{background-
```



Graphene solar panel manufacturer

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position:-372px 0} evronUp12{background-position:-372px -14px}@media(prefers-color-
scheme:dark){#bpage.b_med evronDown12{background-position:-386px 0}#bpage.b_med
evronUp12{background-position:-386px -14px}}#bpage.b_drk evronDown12{background-
position:-386px 0}#bpage.b_drk evronUp12{background-position:-386px
-14px}.cipt,.cipl{margin-right:10px}.cipt .cico,.cipl .cico,.ciptr .cico,.ciplr .cico{border-radius:0}.
b_action>.cipt,b_action>.cipl{float:left}.ciptr,.ciplr{margin-left:10px}.sw_play{height:16px;widt
h:16px}:not(.dc_aud_wrp)>.sw_play{background-image:url(
GgoAAAANSUUhEUgAAACAAAAAAgCAMAAABEpIrGAAAAaVBMVEUAAAAAD58AFaQA
E6UAFKUAE6QAFKUAEqYAD58AE6QAE6UAFKQAEqUAD6QAE6MAE6QAD6cAE6QAF
aQAFKQAEqQAFKUAEqQAFKUAEqIAFKMAEqMAE6MAD58AE6UAE6UAE6IAFKYAFK
YAE6MaDJ//AAAAI3RSTIMAEGCfz+//XyCQj79vMEDfIKAwok/vYL9gcHDPMM9QkK+fnz
HYYSkAAAEVSURBVHgBdZMFkuwwEEPvk/ULx8nSMN7/jh/X1dUDKgjpyaTIZavQLUF6q2
rTo5o24aoaRVkH9MNoK1DD3QW8AzV7M/zAtIDNGbyqKA5k9+d58OkKPukZFjmU0/0Qf6P
deXGVcDu3wBQphcXpxH+vlioyhtyHRwLrWQeICCEzHyZvunlBmLImo0WtsEQQnZU2jMFQ
wg5cFTCGiGEGF8CBUMMGReGdCpvnG/xaT7Ennc3RFyaOMZIOu7LXLF2Q8GL1tSyROMGx
3/O0aSzH1bEyznOUKYZcC/C+XVh2nJT6Yk+yd7giz3wV/LstS8NfvgTPCN0qVkofAk8A+thMs
nehzXQmqLmBVdqHXfZ97JPkPa3ldP6DeOGDIAP873EAAAAAEIFTkSuQmCC);background-
size:16px 16px}.expansionAccessibilityText { display: none; }@media(forced-
colors:active){div.sml>a>img.ciplr{filter:brightness(50%) contrast(20%) grayscale(100%)
saturate(0%) hue-rotate(0deg)}}.lc_expfact_plus{display:none;padding-left:4px;min-width:12px;
min-height:12px;max-width:12px;max-height:12px;cursor:pointer}.lc_expfact_plus>svg{display:
block}.lc_expfact{display:flex;align-items:center}.lc_expfact_default{white-space:nowrap;overfl
ow:hidden;text-overflow:ellipsis}.lc_expfact_title{margin-right:12px;font-weight:700;font-size:13
px;line-height:15px;display:inline-block;white-space:nowrap}.lc_stvp_container{position:fixed;to
p:5%;left:5%;width:90%;height:90%;margin:0;padding:0;z-index:}.lc_stvp_iframe{border-radius:
15px;height:100%;width:100%;border:0}.lc_stvp_overlay{position:fixed;top:0;left:0;width:100%;
height:100%;background:rgba(0,0,0,.6);z-index:}.res17051623 {line-height:0;}@media only
screen and (max-width:1274px){.res17051623,.res17051623
img{height:80px;width:159px;}}@media only screen and (min-width:1275px) and (max-
width:1362px){.res17051623,.res17051623 img{height:104px;width:207px;}}@media only
screen and (min-width:1363px){.res17051623,.res17051623
img{height:127px;width:254px;}}.res44692120 {line-height:0;}@media only screen and (max-
width:1274px){.res44692120,.res44692120 img{height:68px;width:76px;}}@media only screen
and (min-width:1275px) and (max-width:1362px){.res44692120,.res44692120
img{height:88px;width:99px;}}@media only screen and (min-
width:1363px){.res44692120,.res44692120 img{height:108px;width:122px;}}.fdbk_thmb_root{di
splay:inline-block;position:relative;float:right}.fdbk_hide{display:none!important}.fdbtext{displa
y:inline-block;margin-right:3px;font-size:11px;line-height:15px;vertical-

```



Graphene solar panel manufacturer

```
align:middle;color:#767676)#bpage.b_drk .fdbtext{color:#d2d0ce}.fdbk_thmb_root_mob .fdbtext
{font-size:14px;line-height:20px;color:#666}.fdbk_thmb_root>a{display:inline-block;width:15px;
height:15px;margin-left:6px;padding:0;background-size:15px;vertical-align:middle}.fdbk_thmb_r
oot>a.thumb_n{transform:scaleY(-1)}.fdbk_thmb_root_mob.fdbk_thmb_root>a{width:20px;heig
ht:20px;background-size:20px}.fdbtext>span,.fdbtext>a{margin-left:4px}.fdbk_thmb_root>a.thu
mb_y.active{margin-left:0}.fdbk_emotion{display:none;position:absolute;right:0;width:50px;heig
ht:50px;opacity:0;animation:emotion 1s ease-in-out .1s 1 normal forwards}.fdbk_emotion
.sat_img,.fdbk_emotion
.dsat_img{display:none;width:50px;height:50px;opacity:.9}.fdbk_emotion.sat
.sat_img,.fdbk_emotion.dsat .dsat_img{display:inline-
block}.fdbk_emotion.sat{display:block;margin:-50px 3px 0 0}.fdbk_thmb_root_mob
.fdbk_emotion.sat{margin:-50px 11px 0 0}.fdbk_emotion.dsat{display:block;margin:-50px -18px
0 0}.fdbk_thmb_root_mob .fdbk_emotion.dsat{margin:-50px -15px 0 0}@keyframes emotion{50
%{opacity:1}100%{opacity:0;transform:translateY(-10px)}}.fdbk_thmb_root>a.thumb{backgrou
nd-image:url(
AAeP4ixAAAFMEIEQVR4Ac1aa3LTSBBuO4/K40d8g1W4QAIH2Cg5wC7ZAYxeDkBMVV6/s
P0vr2JdHAAMB6ASDgDKBYBcAAsugP7k/TBfJzN229FIsl7mq1JpRmpJ8033tLpbKlBOqFardH
5+bl9fX1cLhcI8H2u32/sjIyP1ra0tlxKiQDmASZyeni6j+d7ndKtYLC4IJVOKHAASPGEvxSFpTgd
vbm4+ViqVEiVALkRgQmXsLNVtXVxczMK8HqDtmOz4+PjFUqAXiGA/6p9G1u90Wh4ExM
TLWjijZB5lkQrmRPZ2NiWMPu27kMbb7yv1+uE4w605ahTpdHR0XmKicyJYNZt3cbAm6wN3
Z+enubdUWcwxeLvSwSDr6pmG673nTwHbbCpHXVFC39QTGRKKBGZIU3eRu3t7e06/DLTgiu
4MxUSmRGBWHW1gq1OGyIwIa0Mschczf0gZiJMiQhuMd2mEIUHiIiPNpomWRC2dBtr/wfF
RCZEpDYwuLcmbYAsCU/F68ijmEidyPr6+uOo2gAKINp5m+O6FsXEKKWP/3WDtbGzs+OaB
I+Pj3k3p/vQ5HeKiVQ1sra2Vibx3tjd3a0FyUNbpHMTBuS/UkykRkTFVNJT1YLka7Xb0xY2bVq
xSTBSMy2EHZxMsKW6LkzqbZA8RydXV1fzyBD1oYdYX3KNeJD5isk5wL32KQSpEIFJreCB
T3Qf7cWwa9hjgcRc32GrT4bNrsWew7LIXKYFEvN4YEP3MYv17e1tN8q1kOWQPoosZ5HfQOi
JSSBRzs7rAoP5RN2Z3IcZLFNC8Po5OzuzYK62WneWosUB8yM/pxBblz4kXDz0OaUAJsJmh
HyliXsu8VpRpzjU9ytxCNiILEY1aSigglNTk62Li8vl6hrghae/3e/7MBEOI4CiS+UMQkNJjMzM
/MTa+SVOIRAU9wvF9lrMQGOoUDCFoczJaHBHg6uuolKy0vVn7snE3YTNiMQeCMLCAq5k
NCax+KxfqM7S2jDqfRYk1EjrNKTk5NlaOA1BizLND+XvUI1pCELCVMDtSIDzH74EmESCO
ge9nmIoRDQ40G10qKAcMaXiOd5JdijJPEFb9Z/ss7yTLgrtnTf+ujfi5J9iYyNjT2m3hLnUt5akFB
mtaC6bfTv5f8m97uiG1zWHCYJBV7oMm+J9mYXOYLnV4vKG3A6rBFL9+GKBw9RVN4wV
KjcvjO5fhZiIuKqfYmDNxoi+CMRYOu+iL6tYCYjKC6coyFDlozgpY/8ZlqGCyXr0CQpS3C4S9
2Fzn7Y8ZMzaaRDRM7GMBC10uJLRHoFTMjCMBd81EqLLxHIFVzVLWFWYn+ASQKeQGi
Anx1aaTG6X5VPa6wMQysqNOIMiJrJjGKMfIHhaGA2VtQNyngpfUcoXZ+amrpNnHkNzk2OP
2sDL1T33hcvicB8BAOVYSeLbi5/vMTNPyD+chCTecirb7+g8cfNNKHSiJp4fgs5yAOTfGhipci8
8JNVpA5VEOcgv05FWyKN+Kwfhe2/oKJfPHKQquk+E97D7zp2EA62AyYGPi6bIQbVpgGg/ll
ZhFlzGnG7yHG/N8hEnwZdN1Bda3NzU9ea/qK7sKEUCa9thgdshmERNgtB5UEV6jVnTiMehV
```



Graphene solar panel manufacturer

2fqEC3urpqw89zVeVPkdP73lObIeQdJGiOPq7/GoIGON9gEjKdjfzDTWp/B/HvF/B0NjauOfGgrJ
D7e2qzDOeb0MTzqLIQZr85CTNkYjb1zrQRrDmuHw+aB+X2vxa8kDbDBeU0NDFeS/yJ7gjE9
+Mmcr8Ajwab99efeF4AAAAASUVORK5CYII=)}.fdbk_thmb_root>a: hover,.fdbk_thmb_root>a
: active,.fdbk_thmb_root>a.active{background-
image:url(/rp/oIh0lv8-r1C0l7JNB8ZsnpYC90s.png)}.lc_hoverhook{position:fixed;border:1px
solid #ddd;border-radius:8px;box-shadow:0 4px 12px 0 rgba(0,0,0,.1);z-index:6;background-color
:#fff}.lc_hoverhook_vis{visibility:visible}.lc_hoverhook_hid{visibility:hidden}.lc_hoverhook_trc
,.lc_hoverhook_tlc{top:-10px}.lc_hoverhook_brc,.lc_hoverhook_blc{bottom:-20px}.lc_hoverhoo
k_tlc,.lc_hoverhook_blc{left:20px}.lc_hoverhook_trc,.lc_hoverhook_brc{right:20px}.lc_hoverho
ok_trc,.lc_hoverhook_tlc,.lc_hoverhook_brc,.lc_hoverhook_blc{position:absolute;width:20px;hei
ght:20px}.lc_hoverhook_trc polyline,.lc_hoverhook_brc polyline,.lc_hoverhook_tlc
polyline,.lc_hoverhook_blcpolyline{fill:#fff;stroke:#ddd;stroke-width:1px}.lite-entcard-main{box-
shadow:0 0 0 1px rgba(0,0,0,.05)!important}f05f0bbf-9d90-a8d2-e2dd-
de9abb7b6337GrapheneCarbon allotropeAll imagesGraphene is a variety of the element carbon
which occurs naturally in small amounts. In graphene, the carbon forms a sheet of interlocked
atoms as hexagons one carbon atom thick. The result resembleNew content will be added above
the current area of focus upon selectionGraphene is a variety of the element carbon which occurs
naturally in small amounts. In graphene, the carbon forms a sheet of interlocked atoms as
hexagons one carbon atom thick. The result resembles the face of a honeycomb. When many
hundreds of graphene layers build up, they are called graphite.Material typeAllotrope of
carbonChemical formulaCYoung's modulus (E)?1 TPaTensile strength (?)130 GPaThermal
conductivity (k) W?m?¹?K?¹ The Miracle MaterialWhat if there was a material that
was flexible, transparent, strong, and could conduct electricity and heat better than any other
known substance?However despite being so thin, you can still see graphene with the naked eye!
Graphene is the world's most conductive material.Graphene Solar Panels Amounts shipped is
dependent on shipping availability. (Roughly 3-5 MW per shipment, can be more or less) For
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companies--covering producers, integrators, and application specialists across batteries, coatings,
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more power compared to standard panels and come with an industry-leading 30-year warranty. In
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deploying advanced clean energy systems including graphene solar technology, battery storage,
waste-to-energy solutions, microgrids, and wireless Home | American GrapheneAt American
Graphene, we are pioneering the future of nanomaterials with our proprietary technology,
meticulously crafting pristine semiconductor-grade single-layer graphene sheets Home We've
assembled a unique team that brings together expertise in business development, high-efficiency
solar cell design and low-cost high-conductivity graphene production. Global Renewables, Inc.We



Graphene solar panel manufacturer

offer a reliable supply of high-quality graphene solar panels to meet the growing demand for sustainable energy solutions. Solar installers can trust our graphene solar panels to provide

Exploring the Use of Graphene in Solar Panel Technology While current graphene production is expensive, researchers are developing more cost-effective manufacturing techniques. The potential for lighter, more efficient solar panels

Graphene Solar: Introduction and Market News ZN Shine Solar, a photovoltaic module manufacturer, presented the main highlights of its portfolio at the Intersolar South America event: graphene-coated modules, BIPV

11 Graphene Manufacturers in This section provides an overview for graphene as well as their applications and principles. Also, please take a look at the list of 11 graphene manufacturers and their company rankings.

Graphene Solar Panels Amounts shipped is dependent on shipping availability. (Roughly 3-5 MW per shipment, can be more or less) For more information or to place an order, please fill out the contact form below.

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