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Tytuł: Jak poprawić efektywność paneli fotowoltaicznych

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? TERMOMODERNIZACJA REMIZY OSP W OKOŁOWICACH (Gmina Koniecpol) Budynek remizy OSP w Okolowicach przechodzi właśnie prawdziwa metamorfoza! ?? Obiekt, który od lat służy nie tylko

Dowiedz się, co wpływa na wydajność paneli fotowoltaicznych i jak poprawić ich efektywność. Przeczytaj nasz artykuł, aby uzyskać praktyczne wskazówki! Fotowoltaika to

System net-billing stał się kluczowym elementem polskiego rynku mikroinstalacji fotowoltaicznych. Zastąpił popularny net-metering (system opustów) i całkowicie zmienił sposób

Sprawdź, jakie czynniki wpływają na efektywność paneli fotowoltaicznych i w jaki sposób możesz zwiększyć efektywność fotowoltaiki.

Z tego artykułu dowiesz się, jakie czynniki, poza jakością komponentów i montażu, wpływają na sprawność fotowoltaiki. Poznasz odpowiedzi na pytania, jak

Dowiedz się, jak poprawić wydajność swojej instalacji fotowoltaicznej. Poznaj praktyczne wskazówki dotyczące wyboru paneli, ich umiejscowienia oraz konserwacji, aby zaoszczędzić na

Jakość elementów składowych Instalacji fotowoltaicznej  
Jakość projektu i wykonania Domowej Elektrowni Słonecznej  
Poziom nasłonecznienia W różnych Porach Roku  
Zacienienie Paneli PV  
Temperatura pracy Ogniwa fotowoltaicznego  
Zbyt Wysokie Napięcie W Sieci energetycznej  
Jeżeli napięcie w sieci energetycznej przekracza 253 V, falownik wyłącza się i panele słoneczne przestają produkować prąd. Takie zdarzenia sprawiają, że ogólna efektywność fotowoltaiki spada. Rozwiązaniem problemu jest zmniejszenie ilości energii przekazywanej do sieci i zwiększenie konsumpcji własnej. Można to osiągnąć dzięki zainstalowaniu magazynu...  
Zobacz więcej tutaj: [lepiej.tauron.pl/#b\\_results](https://www.lepiej.tauron.pl/#b_results)

```
0!important;background:var(--bing-smtc-background-ctrl-fade-on-image-stop-0)}#b_results #serpvidans.vsacf
.mc_vtvc,#b_results #serpvidans.vsacf .mc_vtvc_th,#b_results #serpvidans.vsacf .cico,#b_results
#serpvidans.vsacf .mc_vtvc_htb,#b_results #serpvidans.vsacf .vrhc,#b_results #serpvidans.vsacf
.vrhcp,#b_results #serpvidans.vsacf .vrhtc,#b_results #serpvidans.vsacf
.vrhtpc{border-radius:var(--mai-smtc-corner-list-card-default)}#b_results #serpvidans.vsacf .mmlist
.mc_vtvc,#b_results #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta{margin:0}#b_results
#serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_channel,#b_results #serpvidans.vsacf
.mmlist .mc_vtvc .mc_vtvc_meta_row_channel{color:var(--smtc-foreground-content-neutral-primary)}#serpvidans.vsacf,#serpv
idans.vsacf .expctn .expbody,#serpvidans.vsacf
.mmlist{display:flex;flex-direction:column;gap:var(--smtc-gap-between-content-medium)}#serpvidans.vsacf
.cico{height:auto}#serpvidans.vsacf .mc_vtvc_ban_lo{top:0;right:auto}#serpvidans.vsacf .mc_cwvc .mc_vtvc
.mc_vtvc_meta,#serpvidans.vsacf .mmlist .mc_vtvc
.mc_vtvc_meta{height:auto;padding:var(--smtc-gap-between-content-xx-small) 0
var(--smtc-gap-between-content-xx-small)
var(--smtc-gap-between-content-medium);display:flex;flex-direction:column;justify-content:space-between}#
serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_title,#serpvidans.vsacf .mmlist .mc_vtvc
.mc_vtvc_meta
.mc_vtvc_title{color:var(--smtc-ctrl-link-foreground-brand-rest);font:var(--bing-smtc-text-global-body2);heig
ht:auto;display:-webkit-box;-webkit-line-clamp:2;-webkit-box-orient:vertical}#serpvidans.vsacf .mc_cwvc
.mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area,#serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_block,#serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_block_area,#serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_block{display:flex;flex-direction:column;gap:var(--smtc-padding-ctrl-text-side)}#serpvidans.
vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area .mc_vtvc_meta_row,#serpvidans.vsacf
.mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block .mc_vtvc_meta_row,#serpvidans.vsacf .mmlist
.mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area .mc_vtvc_meta_row,#serpvidans.vsacf .mmlist
.mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block .mc_vtvc_meta_row
.mc_vtvc_meta_row{color:var(--smtc-foreground-content-neutral-primary);height:var(--mai-smtc-padding-car
d-default);font:var(--bing-smtc-text-global-caption1)}#serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_block_area .mc_vtvc_meta_row .mc_vtvc_meta_row_channel::before,#serpvidans.vsacf
.mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block .mc_vtvc_meta_row
.mc_vtvc_meta_row_channel::before,#serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_block_area .mc_vtvc_meta_row .mc_vtvc_meta_row_channel::before,#serpvidans.vsacf
.mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block .mc_vtvc_meta_row
.mc_vtvc_meta_row_channel::before{content:" . "}"#serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_block_area .mc_vtvc_meta_pubdate,#serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_block .mc_vtvc_meta_pubdate,#serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_block_area .mc_vtvc_meta_pubdate,#serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_block
.mc_vtvc_meta_pubdate{color:var(--bing-smtc-foreground-content-neutral-tertiary);padding-bottom:0}.vsacf
```

```
.mc_cwvc .mc_vtvc_con_rc,.vsacf .mmlist .mc_vtvc_con_rc{display:flex}.vsacf .mc_cwvc .mc_vtvc_con_rc
.mc_vtvc_meta_w,.vsacf .mmlist .mc_vtvc_con_rc .mc_vtvc_meta_w{height:auto}.vsacf
.b_title{padding-left:0}.vsacf .b_title
.mmttitle{font:var(--bing-smtc-text-global-subtitle1-strong);margin-bottom:0}.vsacf .b_title .mmttitle
a::after{content:"";margin:5px 5px 0 0;border-top:2px solid
var(--smtc-foreground-content-neutral-primary);border-right:2px solid
var(--smtc-foreground-content-neutral-primary);background-size:7px
7px;width:7px;height:7px;transform:rotate(45deg);display:inline-block;margin-left:4px}#serpvidans.vsacf
.b_title .mmttitle{margin-bottom:0}#serpvidans.vsacf .b_title .mmttitle
a{color:var(--smtc-foreground-content-neutral-primary)}#serpvidans.vsacf .cardless.mmlist
.mc_vtvc_con_rc,#serpvidans.vsacf .cardless.mmlist .mc_vtvc_th{height:auto}#serpvidans.vsacf
.vsb_tr_c.va_tt{margin:0}#serpvidans.vsacf .vtbc .mv_vtvc_play,#serpvidans.vsacf .vtbc
.mv_vtvc_play_ext{position:static}#serpvidans.vsacf .va_tt
.mc_vtvc_ban_lo{display:block}#serpvidans.vsacf
.mc_bc{width:auto;border-radius:var(--smtc-ctrl-badge-sm-corner);padding:var(--smtc-padding-ctrl-text-side)
var(--smtc-gap-between-content-xx-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.rmouseover{height:36px}.vsacf .va_tt .vsb_tr_chd
.mc_vtvc_th_dock{height:92px;position:absolute;bottom:0;background:linear-gradient(180deg,var(--bing-smt
c-background-ctrl-fade-on-image-stop-0) 0%,var(--mai-smtc-background-ctrl-on-image-rest) 100%)}.vsacf
.va_tt a.vsb_tr_t{padding:0 0;font:var(--bing-smtc-text-global-body-2-alt-strong)}.vsacf .va_tt .vsb_tr_chd
.mc_vtvc .mc_vtvc_meta,.vsacf .va_tt .vsb_tr_chd .mc_vtvc
.mc_vtvc_title{color:var(--mai-smtc-foreground-ctrl-on-image-rest)}.vsacf
span.vcmt_ctt{font:var(--bing-smtc-text-global-caption2);margin:var(--smtc-gap-between-content-xx-small) 0
0;height:16px}#serpvidans.vsacf .vsb_tr_chd .mc_vtvc_tot .mc_vtvc_title
strong{font-size:14px;line-height:20px;display:unset}#serpvidans.vsacf .va_tt .b_sldrp
.slide:not(:first-child){margin-left:var(--smtc-gap-between-content-small)}#serpvidans.vsacf .va_tt
.vsb_tr_chd .mc_vtvc
.mc_vtvc_title{white-space:normal;display:-webkit-box;-webkit-line-clamp:2;-webkit-box-orient:vertical}#se
rpvidans.vsacf .b_module_expansion_control .b_btnContainer
.b_CompactExpansion{background-color:var(--bing-smtc-background-ctrl-neutral-rest);display:flex;justify-co
ntent:center;align-items:center;gap:4px;width:fit-content;height:auto;padding:8px 12px}#serpvidans.vsacf
.b_module_expansion_control .b_btnContainer .b_CompactExpansion
.b_CompactExpansionBtnText{font:var(--bing-smtc-text-global-caption1-strong);color:var(--bing-smtc-foregr
ound-content-brand-rest)}#serpvidans.vsacf .b_module_expansion_control .b_btnContainer
.b_CompactExpansion .b_arrow{display:flex;margin:0;height:auto}#serpvidans.vsacf
.b_module_expansion_control .b_btnContainer .b_CompactExpansion .b_arrow
path#Shape{fill:var(--bing-smtc-foreground-content-brand-rest)}#serpvidans.vsacf
.b_module_expansion_control
.b_btnContainer::after{content:"";position:absolute;width:100%;bottom:20px;left:0;height:1px;border-radius:
1px;background:var(--smtc-stroke-ctrl-on-neutral-rest)}#b_results
```

```
.b_ans.b_vidAns{box-shadow:none;padding:12px 20px 0}#b_results .b_ans.b_vidAns
.vasac{padding:unset;margin:0}#b_results .b_ans.b_vidAns .vsa .b_attribution{padding-bottom:0}#b_results
.b_ans.b_vidAns .cardless .salink{margin:0}#b_results .b_ans.b_vidAns .mmlist
.mc_vtvc{margin-top:10px}#b_results .b_ans.b_vidAns .mmlist .mc_vtvc
.mc_vtvc_meta{display:flex;flex-direction:column;justify-content:space-between;margin:0 10px 4px
12px}#b_results .b_ans.b_vidAns .mmlist .mc_vtvc .mc_vtvc_meta
.mc_vtvc_meta_channel{color:#111}#b_results .b_ans.b_vidAns .mmlist .mc_vtvc .mc_vtvc_meta
.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 .mc_vtvc_meta
.mc_vtvc_meta_block_area{bottom:0;height:unset}.b_dark .vsa.cardless
.mc_vtvc{background-color:unset}.mmlist>a{display:block}.mc_fh{height:100%;border-radius:6px}.mc_tc_
bs{overflow:hidden}.mmlist .mc_vtvc .mc_vtvc_meta { padding: 12px 16px 16px 16px; } .mmlist .mc_vtvc
.mc_vtvc_meta_w { height: 112px; margin-top: -0px; } .mmlist .mc_vtvc .mc_vtvc_title { height: 44px;
line-height: 22px; margin-bottom: 0px; margin-top: 0px; } .mmlist .mc_vtvc .mc_vtvc_meta_block_area {
height: 40px; } .mmlist .mc_vtvc .vtmu, .mmlist .mc_vtvc .vtpl { bottom: 120px; } .mmlist .mc_vtvc_th_dock
{ height: 112px; } .mmlist .mc_vtvc_th .cico { height: 131px; }
.mc_vtvc{background-color:#fff;box-shadow:0 0 0 1px
rgba(0,0,0,.05);line-height:0;margin:0;position:relative;border-radius:6px;overflow:hidden}.mc_vtvc.noshado
w{box-shadow:none}.mc_vtvc_con_rc{border-radius:6px;overflow:hidden;position:relative}.mc_vtvc>a{colo
r:#71777d;display:block;text-decoration:none;width:100%}.mc_vtvc>a:focus::after{outline:2px solid
var(--smtc-ctrl-focus-outer-stroke);width:100%;height:100%;content:"";outline-offset:-2px;position:absolute;to
p:0;left:0}.mc_vtvc_th{background-color:#d5d5d5;position:relative}.mc_vtvc_th
.cico{border-radius:0}.mc_vtvc_ban_lo,.mc_vtvc_ban_up{position:absolute;vertical-align:middle}.mc_vtvc_
ban_lo{bottom:0}.mc_vtvc_ban_up{top:0}.mc_vtvc_title{font-weight:normal;margin-bottom:11px;overflow:
hidden;color:#111;height:54px;line-height:18px}.mc_vtvc_title
a{display:inline-block;color:#111}.mc_vtvc_title
a:hover{text-decoration:underline}.mc_vtvc_src_ico{float:left;margin-right:4px}.mc_vtvc_act{height:16px;m
argin-top:-40px;padding:12px
8px;z-index:1}.mc_vtvc_actc{right:16px;bottom:16px;position:absolute;display:inline-block;z-index:1}.mc_v
tvc_act_sep{border-top:1px solid #d5d5d5;height:40px;margin:0 8px}.mc_vtvc_fh
.mc_vtvc_act_sep,.mc_vtvc_fh .mc_vtvc_act{visibility:hidden}#serpvidans
.b_topTitle{margin-bottom:8px}.mc_vtvc_htc{width:100%;height:100%;position:absolute;top:0;bottom:0;left
:0;right:0}.mc_vtvc_htb{width:100%;height:100%;background:rgba(0,0,0,.7);position:absolute;top:0;bottom:
0;left:0;right:0}.mc_vtvc_ht{width:100%;padding:0
16px;line-height:16px;color:#fff;text-decoration:underline;word-break:break-word;box-sizing:border-box;vert
ical-align:middle;text-align:center}.mc-vtvc_th_live_b{background-color:#c80000;color:#fff;display:inline-bl
ock;padding:2px 8px;font:11px/14px
Arial;border-radius:2px;text-transform:uppercase;height:15px;width:26px;position:absolute;left:8px;top:110p
x}.isvctrl .isv
.mc_vtvc_ban_up{left:0;right:initial}.mc_vtvc_ban_lo,.mc_vtvc_ban_up{right:0}.vt_text.b_lRight
.b_lLeft{margin:0 0 0 1px;height:14px;line-height:14px;padding:2px
```

```
8px;background:rgba(0,0,0,.75);border-radius:2px;font-weight:bold}.mc_vthtb{width:100%;height:100%;background:rgba(0,0,0,.7);position:absolute;top:0;bottom:0;left:0;right:0;display:table}.mc_vtht{width:100%;padding:0
16px;line-height:16px;color:#fff;text-decoration:underline;word-break:break-word;box-sizing:border-box;vertical-align:middle;text-align:center;display:table-cell}.vt_text.b_lRight .b_lLeft{margin:0 0 0
1px;height:14px;line-height:14px;padding:2px
8px;background:rgba(0,0,0,.75);border-radius:2px;font-weight:bold}.emptyStyleForDebuggingPurpose{top:0}.emptyStyleForDebuggingPurpose{top:0}.mc_vtvc_center_play{width:32px;height:32px;background-size:contain;position:absolute;margin:auto;bottom:0;top:0;left:0;right:0;box-shadow:none;border-radius:0}.mc_vtvc_center_play.rmvbg{width:32px;height:32px;background-image:none}.mc_vtvc_htb,.mc_vtvc_ht{display:none}.vt_onhv .mc_vtvc_htb{display:table}.vt_onhv
.mc_vtvc_ht{display:table-cell}.mc_vtvc_center_play{display:inline-block}.vt_onhv
.mc_vtvc_center_play{display:none}.mc_vtvc .vtmu,.mc_vtvc .vtpl{bottom:163px}.vsarf .mc_vtvc .vtmu,.vsarf .mc_vtvc .vtpl{bottom:122px}.svarh #mmcar .mc_vtvc .vtmu,.svarh #mmcar .mc_vtvc .vtpl{bottom:137px}.svarht #mmcar .mc_vtvc .vtmu,.svarht #mmcar .mc_vtvc .vtpl{top:8px;left:8px}.mc_vtvc_center_play{background-image:url(data:image/svg+xml,%3Csvg%20width%3D%2232%22%20height%3D%2232%22%20viewBox%3D%220%200%2032%2032%22%20fill%3D%22none%22%20xmlns%3D%22http%3A%2F%2F%2F2000%2Fsvg%22%3E%0D%0A%20%20%20%20%3Crect%20width%3D%2232%22%20height%3D%2232%22%20rx%3D%2216%22%20fill%3D%22black%22%20fill-opacity%3D%220.6%22%2F%3E%0D%0A%20%20%20%20%3Cpath%20d%3D%22M14.2354%2010.1923C13.2355%209.62986%2012%2010.3524%2012%2011.4997V20.5C12%2021.6472%2013.2355%2022.3698%2014.2354%2021.8073L22.2356%2017.3073C23.2551%2016.7339%2023.2551%2015.2661%2022.2357%2014.6926L14.2354%2010.1923Z%22%20fill%3D%22white%22%20fill-opacity%3D%220.9%22%2F%3E%0D%0A%3C%2Fsvg%3E)}.mmlist .mc_vtvc{margin:10px 1px 0}.mmlist
.mc_vtvc_con_rc{display:flex}.cardless .mmlist .mc_vtvc_con_rc{height:112px}.mmlist .mc_vtvc
.mc_vtvc_meta{display:flex;flex-direction:column;justify-content:space-between;margin:0 10px 4px 12px;padding:0}.mmlist
.mc_vtvc_title{font-weight:400;font-size:16px;height:44px;line-height:22px;margin-bottom:0;margin-top:0;color:unset}.mmlist .mc_vtvc_meta_row{font-size:13px}.mmlist .mc_vtvc
.mc_vtvc_meta_block_area{height:unset}.mmlist .mc_vtvc .vtmu,.mmlist .mc_vtvc
.vtpl{bottom:8px}.cardless .mmlist .mc_vtvc{box-shadow:none}.cardless.mmlist
.mc_vtvc_center_play{width:32px;height:32px}.cardless.mmlist
.mc_vtvc_title{font-size:16px;color:unset}.cardless.mmlist
.mc_vtvc_meta_row{line-height:20px}.cardless.mmlist
.mc_vtvc_meta_pubdate{padding-bottom:2px;color:#666}.cardless.mmlist .mc_vtvc_th,.cardless.mmlist
.mc_vtvc_th .cico,.cardless.mmlist .mc_vtvc_th div.rms_img{border-radius:6px}.cardless.mmlist
.mc_vtvc_th{height:111px}.cardless.mmlist
.mc_vtvc_htc{border-radius:6px;overflow:hidden}#serpvidans.vasac.cardless{box-shadow:none}.cardless.mmlist
.mc_bc{padding:2px 8px;line-height:14px;border-radius:2px;font-weight:normal}.mmlist
.mc_vtvc: hover
.mc_vtvc_title{text-decoration:underline}.mc_vtvc_meta{box-sizing:border-box;display:inline-block;line-height
```

```
ght:18px;position:relative;width:100% }.mc_vtvc_meta_block{bottom:0;position:absolute;width:100% }.mc_v
tvc_meta_row{line-height:16px;font-size:11px;height:17px;overflow:hidden;text-overflow:ellipsis;white-spac
e:nowrap }.mc_vtvc_meta_row
a{display:inline-block }.mc_vtvc_meta_row
a:hover{text-decoration:underline }.mc_vtvc_meta_block_area{position:relative }.mc_vtvc_meta_block,.mc_v
tvc_meta_block
a{color:#444 }.b_dark
.mc_vtvc_meta_block{color:#edebe9 }.mc_vtvc_meta_row>:nth-of-type(n+2)::before{content:"
" }.mc_vtvc_meta_row
.mc_vtvc_meta_row_channel::before{content:"
" }.mc_vtvc_kmt_title{line-height:18px;padding-bottom:4px;font-weight:bold;color:#00809d;text-transform:u
ppercase;font-size:11px }.mc_vtvc_kmt,.mc_vtvc_con_rc.onhov
.wkmt
.mc_vtvc_meta_row,.mc_vtvc_con_rc.onhov
.wkmt
.tibc_tt{display:none }.mc_vtvc_con_rc.onhov
.wkmt
.mc_vtvc_title{max-height:18px;margin-bottom:18px;overflow:hidden }.mc_vtvc_con_rc.onhov.mmsts
.mc_vtvc_title{visibility:hidden }.mc_vtvc_con_rc.onhov
.mc_vtvc_kmt{display:block }.mc_vtvc_kmt_content
.b_factrow{line-height:17px;font-size:11px;max-height:34px;overflow:hidden;text-overflow:ellipsis;padding:
0
16px
0
0;color:#444 }.mc_vtvc_meta
.mc_vtvc_kmt_title{line-height:18px }.mc_vtvc_title:hover{text-decoration:none }.mc_vtvc_meta_pubdate{co
lor:#444;padding-bottom:3px }.mc_vtvc_meta_channel{color:#444 }.mc_vtvc_meta_w,.mc_vplvc_meta_w{po
sition:relative }.mc_vtvc_meta_bg_w,.mc_vplvc_meta_bg_w{height:100%;width:100%;overflow:hidden;posit
ion:absolute;top:0 }.mc_vtvc_meta_bg_w
.cico,.mc_vplvc_meta_bg_w
.cico{border-radius:0;overflow:visible }.dg_u
.mm_vidch_th_c{overflow:visible }.dg_u
.mm_vidch_th_bg
img{margin-top:-20px }.emptyStyleForDebuggingPurpose{top:0 }.mc_vtvc_meta_w
.mc_vtvc_meta{background:rgba(255,255,255,.75) }.mc_vtvc_meta_bg_w
img,.mc_vtvc_meta_bg_w
.mc_vtvc_cb_w{filter:blur(25px);transform:scale(1.2) }body{--video-metadata-channel-color:#3c3c3c }body.b
_dark{--video-metadata-channel-color:unset }.vsarf
.mc_vtvc_meta_pubdate{color:unset }.vsarf
.mc_vtvc_meta_channel{color:var(--video-metadata-channel-color) }.vsarf
.mc_vtvc
.mc_vtvc_meta_w
.mc_vtvc_title,.vsarf
.mc_vtvc
.mc_vtvc_meta_w
.mc_vtvc_title
strong{font-weight:bold }.vsarf
.mc_vtvc_meta_w
.mc_vtvc_meta_row{font-size:13px }.emptyStyleForDebuggingPurpose{top:0 }.vsarf
.mc_vtvc_th
.cico{height:132px }.emptyStyleForDebuggingPurpose{top:0 }.emptyStyleForDebuggingPurpose{top:0 }.empt
yStyleForDebuggingPurpose{top:0 }.emptyStyleForDebuggingPurpose{top:0 }.emptyStyleForDebuggingPurp
ose{top:0 }.emptyStyleForDebuggingPurpose{top:0 }.emptyStyleForDebuggingPurpose{top:0 }.vtbc
.mv_vtvc_play{display:inline-block;position:absolute;bottom:8px;left:9px;height:8px;width:7px }.vtbc
.mv_vtvc_play_ext{background:url(/rp/Lp38sn_O4jegSK0IHxZVxyp-yKQ.png)
-172px
-31px;display:inline-block;height:8px;width:12px;position:absolute;bottom:8px;left:6px }.vtbc
.pivot{height:20px;width:8px;min-width:8px }.vtbc
.mv_vtvc_play{background:url(
uo4D1oAAAAB9JREFUCB1jmMoABKuaQcSqQhCxKgFGgLhNQIkpQAwA8zkLyQA16F0AAAAASUVO
RK5CYII=) }.mc_bc_w{height:18px;padding:8px;text-align:right }.mc_bc{background-color:rgba(0,0,0,.75);p
adding:2px
8px;line-height:14px;color:#fff;display:inline-block;vertical-align:middle;border-radius:2px;font-weight:bold }
```

```
.mc_bc_w .pivot{text-align:center;margin-right:1px;height:14px}.vsarr .mmgrid .mc_bc_w
.mc_bc{background-color:rgba(0,0,0,.75);opacity:1}.mmsi{height:16px;width:16px;position:relative;top:5px;
padding-right:var(--smtc-gap-between-content-xx-small)}.mmsi-microsoftnews,.mmsi-msn{top:3px}.vrhdata
{display:none}.mmgrid>div{width:197px;display:inline-block;margin-right:8px;margin-bottom:8px;box-shad
ow:0 0 0 1px
rgba(0,0,0,.05);position:relative;vertical-align:top;overflow:hidden;white-space:normal;border-radius:6px}.vs
arr .mmgrid>div,.vsarr1stbig .mmgrid>div{margin-right:8px;margin-bottom:8px}#serpvidansrr .mc_vtvc
.mc_vtvc_meta{height:auto}#serpvidansrr .mc_vtvc
.mc_vtvc_title{display:-webkit-box;-webkit-line-clamp:2;-webkit-box-orient:vertical}.mmgrid
.mc_tc{border:0}.vsa .mmgrid>div:nth-child(3n){margin-right:0}.vsa
.b_moreLink{padding-top:4px}#serpvidansrr
.mc_vtvc_meta_row{line-height:18px;font-size:100%;height:17px}.vsarr
.mmgrid>div:nth-child(2n){margin-right:0}#serpvidansrr .mc_vtvc .vtmu,#serpvidansrr .mc_vtvc
.vtpl{bottom:128px}.vsarr1stbig .mmgrid>div:nth-child(2){margin-right:0}#serpvidansrr.uipolish
.mc_vtvc_meta_pubdate,#serpvidansrr.uipolish .mc_vtvc_meta_channel,#serpvidansrr.uipolish #vidans2
.b_videocard .video_metadata .video_source{color:#767676}#serpvidansrr #vidans2 .b_videocard
.video_metadata_container,#serpvidansrr #vidans2 .b_videocard .video_metadata_container
.video_metadata>h3{width:100%}@media(max-width:1362.9px){#serpvidansrr
.mmgrid>div{width:168px;height:206px}#serpvidansrr .mmgrid>div .cico,#serpvidansrr .mmgrid>div .cico
.rms_img{width:168px;height:100px}#serpvidansrr .mc_vtvc .mc_vtvc_meta{padding:12px}#serpvidansrr
.mc_vtvc .mc_vtvc_title{height:32px;line-height:16px;margin-bottom:16px}#serpvidansrr .mc_vtvc
.mc_vtvc_meta_block_area{height:34px}#serpvidansrr
.mc_vtvc_meta_row{line-height:15px;font-size:13px;height:15px}#serpvidansrr
.mc_vtvc_meta_pubdate{padding-bottom:4px}#serpvidansrr .mc_vtvc .vtmu,#serpvidansrr .mc_vtvc
.vtpl{bottom:114px}#serpvidansrr #vidans2 .b_videocard .videoPlayer,#serpvidansrr #vidans2 .b_videocard
.videoPlayer .cico,#serpvidansrr #vidans2 .b_videocard .videoPlayer .cico
.rms_img{width:343px!important;height:194px!important;margin-right:0} @media(max-width:1274.9px){#s
erpvidansrr .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;#ecec;margin-bottom:16px}#serpvidansrr #vidans2 .b_videocard
```

```
.video_metadata{max-width:auto;padding:12px 16px}#serpvideosrr #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}#serpvideosrr .b_rich{padding-top:0}#serpvideosrr #vidans2
.videoPlayer{border-radius:6px 6px 0 0;overflow:hidden}#serpvideosrr #vidans2 .b_videocard
.video_metadata>h3{white-space:nowrap;overflow:hidden;text-overflow:ellipsis;-webkit-line-clamp:1;line-he
ight:15px;height:15px;font-size:13px;color:#000;margin-bottom:20px;font-family:"Arial",Helvetica,Sans-Seri
f;font-style:normal;display:block}#serpvideosrr.vsbrr1stbig #vidans2 .b_videocard .video_metadata
.actionmenu{display:none}#serpvideosrr #vidans2 .b_videocard .video_summary,#serpvideosrr #vidans2
.b_videocard .video_source{line-height:15px}#serpvideosrr #vidans2 .b_videocard .videoPlayer
.vtbc{right:0}.vrhc line.nhvpv .pffvi,.vrhc line.nhvpv[data-tps="S"] .pffvt,.vrhc line.nhvpv[data-tps="M"]
.pffvt,.vrhc line.nhvpv[data-tps="L"] .pffvt{display:inline-flex}.vrhc line.nhvpv .vrhvc.pffv
.vrhc{display:none}.vrhc line.nhvpv .vrhvc.pffv
.player_ol{background:var(--mai-smtc-background-ctrl-on-image-hover);transition:background-color
.5s;display:flex;align-items:center;justify-content:center;padding:var(--smtc-gap-between-content-x-small);ga
p:var(--smtc-gap-between-content-x-small);box-sizing:border-box}.mc_vtvc_th img{transition:all .3s
ease-out}.nhvpv+.mc_vtvc_th
img{transform:scale(1.1)}.smtplayerhtml5{height:100%;width:100%;overflow:hidden}.smtplayerhtml5
video{min-height:100%;min-width:100%}.smtplayerhtml5
.videoplaying{background-color:#000}.smtplayerhtml5.hide{display:none}.pffvt{display:none;color:var(--ma
i-smtc-foreground-ctrl-on-image-rest);font:var(--bing-smtc-text-global-subtitle2-strong)}.pffvi{mask:url(/rp/ui
07wU6K7FR_inzG7DRbP1i8fGo.svg) center
no-repeat;mask-size:12px;background:var(--bing-smtc-background-card-on-image-default);width:20px;height
:20px;flex-shrink:0;align-self:flex-start}[data-tps="L"]
.pffvt{font:var(--bing-smtc-text-global-subtitle2-strong)}[data-tps="L"]
.pffvi{width:22px;height:22px;mask-size:16px}[data-tps="S"] .pffvt{font-size:0}[data-tps="S"]
.pffvi{width:24px;height:24px;mask-size:24px;align-self:center}.hvpv.h5s
.pffvt{display:inline-flex}.hvpv.h5s .vrhvc.pffv .vrhc{display:none}.hvpv.h5s .vrhvc.pffv
.player_ol{background:var(--mai-smtc-background-ctrl-on-image-hover);transition:background-color
.5s;display:flex;align-items:center;justify-content:center;padding:var(--smtc-gap-between-content-x-small);ga
p:var(--smtc-gap-between-content-x-small);box-sizing:border-box}.pffvt{text-decoration:underline}.vrhc
.vrhc{position:absolute;width:100%;height:35px;max-height:35px;bottom:0;left:0;padding:0;background:non
e;display:block;z-index:9}.vrhc .vrhc.hide,.vrhc .vrhc .vrhc
.hide{display:none}.vrhc{white-space:nowrap;text-overflow:ellipsis;overflow:hidden;display:inline-block;po
sition:absolute;max-width:240px;height:18px;line-height:14px;margin-left:8px;top:10px;left:0;right:0;border
radius:2px;padding-right:8px}.vrhc div{display:inline-block}.vrhc
nt{color:#fff;font-size:11px;font-weight:bold;background-color:rgba(0,0,0,.75);padding:2px
8px;margin-left:0;top:0;box-sizing:border-box;position:relative}.vrhc
.ricons{position:absolute;right:8px;top:10px;left:auto;bottom:auto;height:18px;display:inline-block;cursor:poi
nter}.vrhc.icons_1 .vrhc{margin-right:27px}.vrhc.icons_2 .vrhc{margin-right:49px}.vrhc.icons_3
.vrhc{margin-right:79px}.vrhc .vrhc
nt,.vsb_tr_chd .vrhc.icons_1
.vrhc{margin-right:0}.vpb{position:absolute;display:block;bottom:0;left:0;height:4px}.vpb
```

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div { position: absolute } .vpb
nt { width: 0; background: #fff } .vpb
nt.test { display: none } .vpb.back { background-color: #999 } .vrhcb
.vrhol.npb { height: 36px; max-height: 36px } .vrhol
.vadda { width: 22px; height: 18px; padding: 0; margin-right: 0; margin-left: 2px; bottom: 0; position: relative; display: inline-block; z-index: 1; background: rgba(0,0,0,.75); border-radius: 2px; overflow: hidden } .vrhol
.vadda.hide { display: none } .vrhol .vadda .mc_vfaa { margin: 3px 5px } .ricons .vol { float: left } .ricons
.adultFlag { float: right } .vol { width: 22px; height: 18px; bottom: 0; margin-left: 1px; margin-right: 1px; position: relative; display: inline-block } .vol.hide, .vol
.hide { display: none } .vol
.bg { background: rgba(0,0,0,.75); border-radius: 2px } .vol.bg, .vol
nt { position: absolute; bottom: 0 } .vol
.vol.bg.volnb { border-radius: 0 0 2px 2px } .vol .volsliderHandle.bg { border-radius: 2px 2px 0 0 } .vol nt
.volsliderHandle { height: 70px; display: none; width: 22px; float: left; bottom: 18px; position: absolute; display: block } .vol
nt .volsliderHandle.hide { display: none } .volsliderHandle
.vsb { height: 54px; width: 4px; background-color: #999; margin: 9px
auto
8px; position: relative; display: block; border-radius: 2px } .volsliderHandle
.vsh { height: 6px; width: 14px; padding: 9px
7px
9px
7px; margin: 0
-12px; display: block; position: absolute; top: 30px } .volsliderHandle .vsh.hide { display: none } .volsliderHandle
.vshi { height: 4px; width: 14px; background-color: #fff; border-radius: 2px } .volMuteIcon { 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/NoslR4amKTS1zYxWy3laZN3HRk.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/J_o2maogFDeUOsovPJJL-ofEuxJ4.gif) center center no-repeat } .vrhc line .vrhtc
.vrhi, .vrhc.popout .vrhtc .vrhi, .vrhc.mousefollow .vrhtc
.vrhi { position: absolute; important; border: hidden; z-index: 2; padding: 0; left: 0; top: 0 } .player_ol { position: absolute;
width: 100%; height: 100%; bottom: 0; border: hidden; z-index: 7 } .vrhc.popout, .vrhc
line, .vrhc.mousefollow { border-radius: 6px; overflow: hidden; display: table-row-group; background: none } .vrhc.p
opout, .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 } .vrhcb { position: relative; top: 0; left: 0; display: table-row } .vrhcb
.vrhtc { position: relative; overflow: hidden } .vrhc.hide { display: none } @keyframes
vh_fadein { from { opacity: 0 } to { opacity: 1 } } .vrhc.not(.hide) { animation: vh_fadein 250ms } .vrhc
line
img { color: transparent } .vrhc
line.fullsize { height: 100% } .vrhc, .vrhc.hover, .vrhc.link, .vrhc.active, .vrhc.visited { color: #000; text-decoration: none } .vrhc.vrh_clc { cursor: pointer } a.hover-anchor { display: block; height: 100%; width: 100%; text-decoration: none
```

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.vrhstat{height:0;overflow:hidden}.vsb_tr_c{position:relative;width:100%;overflow:hidden;background:#1d1b28;height:583px;margin-bottom:16px}.vsb_tr_c.tr_nh{height:294px}.vsb_tr_c .mm_vrc h2,.vsb_tr_c .mm_vrc .see_more{display:none}.vsb_tr_c .mm_vrc>div{padding-bottom:20px}.vsb_tr_c .vsb_tr_t{position:absolute;top:16px;left:160px;font:normal 16px/19px "Arial",Helvetica,Sans-Serif;font-weight:700;color:#fff;z-index:1}.vsb_tr_c .vsb_tr_t::after{width:17px;height:12px;display:inline-block;background-size:7px 12px;background-repeat:no-repeat;background-position-x:right;opacity:.7;content:""}.vsb_tr_c .vsb_tr_t:hover::after{opacity:1}.vsb_tr_c .mc_vtvc{background-color:#585858;border-radius:6px}.vsb_tr_c .mc_vtvc_con_rc{border-radius:6px}.vsb_tr_c .vsb_tr_chd{position:absolute;bottom:0;width:100%}.vsb_tr_c .onhov .mc_vtvc_ban_lo{display:none}.vsb_tr_chd .mc_vtvc_tot .mc_vtvc_title{line-height:15px}.vsb_tr_chd .mc_vtvc_tot .mc_vtvc_meta_row,.vsb_tr_chd .mc_vtvc_tot .mc_vtvc_meta_row a{color:#dadada}.vsb_tr_chd .grad_b{top:30%;height:auto}.vsb_tr_chd .mc_vtvc_tot .mc_vtvc_meta_row{font-size:12px;line-height:16px;height:16px}.vsb_tr_chd .mc_vtvc_tot .meta_pd_content{display:none}.vsb_tr_chd .mc_vtvc_tot .mc_vtvc_title strong{font-weight:500}.vsb_tr_c .slide video{object-fit:cover}.vsb_tr_c .mc_vtvc_th .cico{width:100%;height:100%}.vsb_tr_c .vrhcac{width:647px;position:absolute;width:calc(42% - 160px);bottom:200px;margin:0 0 0 160px;height:auto;padding:0;pointer-events:auto}.vsb_tr_c .vrhcac .mc_vtvc_title{font:normal 30px/35px "Arial",Helvetica,Sans-Serif;font-weight:700;height:70px;overflow:hidden;color:#fff;text-overflow:ellipsis;display:-webkit-box;-webkit-box-orient:vertical;-webkit-line-clamp:2}.vsb_tr_c .vrhcac .mc_vtvc_meta_block_area{height:50px;margin:12px 0 0 0}.vsb_tr_c .vrhcac .mc_vtvc_meta_row{font:normal 13px/15px "Arial",Helvetica,Sans-Serif;margin:5px 0 5px 0;color:#dadada}.vsb_tr_c .mm_vrc .b_overlay .btn.bigrounded .cr>div,.vsb_tr_c .mm_vrc .b_overlay .btn.bigrounded .cr>div:hover{background-image:url(/rp/qA6EopzJjTm5qQJvnXlrWGNP778.svg)}.vsb_tr_c .vsb_tr_t::after{background-image:url(data:image/svg+xml,%3Csvg%20width%3D%227%22%20height%3D%2214%22%20viewBox%3D%220%200%207%2014%22%20fill%3D%22none%22%20xmlns%3D%22http%3A%2F%2F2F2000%2Fsvg%22%3E%0D%0A%20%20%20%20%3Cpath%20d%3D%22M0.186925%201.19491L5.4643%207L0.186925%2012.8051C-0.0623082%2013.0792%20-0.0623082%2013.5214%200.186925%2013.7944C0.436158%2014.0685%200.838112%2014.0685%201.08628%2013.7944L6.81334%207.49465C6.93212%207.36515%207%207.18433%207%207C7%206.81567%206.93212%206.63485%206.81334%206.50535L1.08628%200.205616C0.837052%20-0.0685388%200.435097%20-0.0685388%200.186925%200.205616C-0.0612477%200.479772%20-0.0623082%200.92192%200.186925%201.19491Z%22%20fill%3D%22white%22%20fill-opacity%3D%220.7%22%2F%3E%0D%0A%3C%2Fsvg%3E)}.va_tt .mm_vrc{padding:11px 2px 0 0}.va_tt .vsb_tr_t{position:relative;top:auto;left:auto;font:normal 18px/22px "Arial",Helvetica,Sans-Serif;font-weight:400;color:#4007a2;z-index:auto}.b_dark .va_tt .vsb_tr_t{color:#82c7ff}.va_tt .vsb_tr_tp,.va_tt .vsb_tr_tl{display:inline-block;margin-right:5px}.va_tt .vsb_tr_chd{position:relative}.vsb_tr_c.va_tt{--va-st-padding-bottom:16px;height:auto;background-color:transparent;margin-top:22px;overflow:visible;padding-bottom:var(--va-st-padding-bottom);margin-bottom:0}.va_tt .mc_vtvc_ban_lo,.va_tt .vsb_tr_t::after,.va_tt .mc_vtvc:hover .mc_vtvc_center_play,.va_tt .vsb_tr_chd .vt_onhv .mc_vtvc .mc_vtvc_meta{display:none}.va_tt .mc_vtvc:hover .mc_vtvc_ht,.va_tt .mc_vtvc:hover .mc_vtvc_htb{display:table-cell}.va_tt
```

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.mc_vtvc_htb{padding-top:50px;background:linear-gradient(360deg,rgba(0,0,0,.6) 60.35%,rgba(0,0,0,0) 100%);font-size:11px;line-height:13px}.va_tt .mc_vtvc_ht{padding:0 24px;text-shadow:0 1px 2px rgba(0,0,0,.2)}.va_tt .mc_vtvc_center_play{bottom:52px}.va_tt .mc_vtvc_hover .mc_vtvc_title{max-height:52px;white-space:normal;display:-webkit-box;-webkit-box-orient:vertical;-webkit-line-clamp:4}#serpvidans .va_tt .slide{margin-right:0;vertical-align:bottom;transition:width .2s,height .2s}#serpvidans .va_tt .slide:not(:first-child){margin-left:8px}#serpvidans .va_tt .mm_vrc>div{padding-bottom:0}.va_tt .vsb_tr_chd .mc_vtvc .mc_vtvc_meta{height:auto;padding:8px;color:#ddd}.va_tt .vsb_tr_chd .mc_vtvc_th_dock{height:72px;position:absolute;bottom:0;background:linear-gradient(360deg,rgba(0,0,0,.55) 60.35%,rgba(0,0,0,0) 100%)}.va_tt .mc_vtvc_meta_row_channel{font-size:13px;line-height:15px;font-weight:500;color:#fff;white-space:nowrap;overflow:hidden;text-overflow:ellipsis;margin-bottom:6px}.va_tt .vsb_tr_chd .mc_vtvc .mc_vtvc_title{height:auto;font-size:11px;line-height:13px;color:#ddd;white-space:nowrap;overflow:hidden;text-overflow:ellipsis}.va_tt .slide .mc_vtvc{width:100%}.va_tt .slide video{object-fit:cover}.va_tt .mc_vtvc_th .cico{width:100%;height:204px}.va_tt .b_overlay .btn.bigrounded{top:auto;bottom:0;margin-bottom:93px}.va_tt .vt_onhv .mc_vtvc_htb{padding-top:86px}.va_tt .vsb_tr_chd .mc_vtvc .vtmu,.va_tt .vsb_tr_chd .mc_vtvc .vtpl{bottom:6px}.va_tt .vcmt_ct,.va_tt .vcmt_ct{display:block;margin-bottom:4px;font-size:11px}.va_tt .vasyt::before{content:"";background:url( RK5CYII=) no-repeat;background-size:18px 18px;padding-right:22px}.va_tt .vasig::before{content:"";background:url( hmQ1ZBNp+W5KCDlgYzmdgVqlgppqWkL91h8xoGRrbkwgNfgCrNU52RRS2YvnzsbNEJ67kGQvWbeSEktVHE9+ew3y4nlKIYIU0nRiSibSj/6x9yk7fByZj98lff68KBD7tmxJjSPHU8sAaUWUUBPFaK22uQTf9DIPf
```

YLEy1NtZ1SaVD6PAP1A+9Dj09BmfbNjhbN0NPjqOxfzfz/G0my2Onf1WCyDMzYIFzeQVWscHsGtJz15N1astmNL87Gbcna32bGqffAk5KbCQ5BdKzTYvEV8CXi7fhqSTG3BiXA02i+x7puwRcikgIoOtXObp5idKDr4HVAsLJi8SzY5y8yyHYhLGLCuzLk9GzBqkNg0hv34noh5/YTFwnIjdOdmC8JY8/E+YDFN95CBYLx+Gu3U/XCx24PK/yRddvQx/+D2pWSRvdyhg1s12gg59Chl9mDKW1MzAO3cE1rWvobr6oHKPin4N8QocCUAkT0RiBgznoCd+I3NN8IwicqRdTSQqotNtBMgFw6qQH1Juf0DcrNz7tPRzBfz3JehZI8BifODDeHUZNXAjJFRtUNVipGyilNiWkmse6MvGjoaxnNTyN0NFV7172S3sstxML9nxBRL7I00c+my8BhmvwqZRJV0vMKoStCDgQsQV+xbNq1OmYoZLo6PzeGi+fwFJbz1IhJBeawAAAABJRU5ErkJggg==)

```
no-repeat;background-size:18px 18px;padding-right:22px}.va_tt.vastt::before{content:"";background:url()
```

```
no-repeat;background-size:contain;padding-right:20px}.va_tt.vasfb::before{content:"";background:url(/rp/zvtkyPveEhrXqHA-euzAa983fpQ.png)}no-repeat;background-size:contain;padding-right:20px}.vcmt_ctt.vasyt::before{background-size:15px 15px;padding-right:19px}.vcmt_ctt.vasig::before{background-size:15px 15px;padding-right:19px}.vcmt_ctt.vastt::before{background-size:contain;padding-right:17px}.vcmt_ctt.vasfb::before{padding-right:17px}.mm_vrc{padding:24px 32px}@media screen and (max-width:1022px){.mm_vrc{margin:0}}@media screen and (max-width:766px){.mm_vrc{margin:0}}.mm_vrcc{padding:0 0 32px 0;margin-bottom:0}.mm_vrcc h2{padding-bottom:20px}.mm_vrcc h2 a{font-family:"Segoe UI",Arial,Helvetica;font-size:20px;color:#000;line-height:1.8px}.mm_vrcc .b_overlay .btn{z-index:3}.mm_vrcc .vrhc{z-index:2}.mm_vrcc .mc_vtvc_th .cico{padding-bottom:0}#dg_c .mm_vrc,#dg_c .mm_vrcc{padding:8px 16px 0 16px}#dg_c .mm_vrcc .mc_vtvc{width:100%}#dg_c .mm_vrcc a:hover{text-decoration:underline}.isvctrl .mm_vrcc .slide{overflow:visible}.mm_vrc{padding:16px 100px 0 160px}.mm_vrcc .b_overlay .btn.bigrounded.next{right:-44px}.mm_vrc .b_overlay .btn.bigrounded.prev{left:-44px}.mm_vrc .b_overlay .btn.bigrounded .cr>div,.mm_vrc .b_overlay .btn.bigrounded .cr>div:hover{box-shadow:none;border-radius:0;margin:0;background-position:16px 9px;background-size:12px 22px;background-color:transparent;background-image:url(/rp/rKVnxf6wkbxI0DBa2Au3IVC5Sog.svg)}.mm_vrc .b_overlay .btn.bigrounded .cr>div{opacity:.7}.mm_vrc .b_overlay .btn.bigrounded .cr>div:hover{opacity:1}.mm_vrc h2 a{font-family:"Arial",Helvetica,Sans-Serif;font-style:normal;font-weight:500;color:#111}.mm_vrc h2{display:inline-block;padding-bottom:16px}.mm_vrc>div{position:relative;padding-bottom:32px}.mm_vrc .see_more{position:absolute;right:0;top:3px}.mm_vrc .see_more>a{font-family:"Arial",Helvetica,Sans-Serif;font-style:normal;font-weight:normal;font-size:16px;line-height:1.8px;color:#000}#vsb_more{padding:16px 0 4px 160px;color:#111}#vsb_vid_cat .mm_vrc h2 a::after{display:inline-block;margin-left:12px;content:"";background-image:url(/rp/rKVnxf6wkbxI0DBa2Au3
```

```

IVC5Sog.svg);background-size:7px 14px;width:7px;height:14px;opacity:.7}#vsb_vid_cat .mm_vrc h2
a:hover::after{opacity:1}.mm_vrc .mm_vrc_sub{display:inline-block;margin-left:24px}.mm_vrc
.b_hList{position:absolute;height:20px;top:3px;overflow:hidden}.mm_vrc
.b_hList>li{padding-right:24px;padding-bottom:0}.mm_vrc .b_hList a{font:normal 13px/20px
"Arial",Helvetica,Sans-Serif;color:#111}.mm_vrc .mc_vtvc_tot .mmsts
.mc_vtvc_meta{display:none}.vsb_tr_chd .mc_vtvc .mc_vtvc_meta { padding: 10px 10px 10px 10px; }
.vsb_tr_chd .mc_vtvc .mc_vtvc_meta_w { height: 190px; margin-top: -0px; } .vsb_tr_chd .mc_vtvc
.mc_vtvc_title { height: 150px; line-height: 15px; margin-bottom: 0px; margin-top: 0px; } .vsb_tr_chd
.mc_vtvc .mc_vtvc_meta_block_area { height: 20px; } .vsb_tr_chd .mc_vtvc .vtmu, .vsb_tr_chd .mc_vtvc
.vtpl { bottom: 198px; } .vsb_tr_chd .mc_vtvc_th_dock { height: 190px; } .vsb_tr_chd .mc_vtvc_th_dock {
height: 60px; } .tr_bt .mc_vtvc_th
img{height:auto;width:100%}.grad_b{position:absolute;width:100%;top:30%;bottom:0%;background:linear-
gradient(180deg,rgba(48,44,39,0) 0%,#302c27 100%)}.mc_vtvc_th_dock{width:100%;background:#302c27}.mc_vtvc_tot
.mc_vtvc_th{background-color:transparent}.vsadc .grad_b{top:81.8%}.mc_vtvc_tot
.mc_vtvc_meta{line-height:15px;position:absolute;bottom:0%;background:transparent}.mc_vtvc_tot
.mc_vtvc_meta_row{line-height:16px;font-size:12px;height:16px}.mc_vtvc_tot
.mc_vtvc_meta_row,.mc_vtvc_tot .mc_vtvc_meta_row a{color:#dadada}.mc_vtvc_tot
.mc_vtvc_title,.mc_vtvc_tot .mc_vtvc_title a{color:#fff}.vsadc .mc_vtvc_tot
.mc_vtvc_title{line-height:18px}.vsadc .mc_vtvc_tot .mc_vtvc_meta_row,.vsadc .mc_vtvc_tot
.mc_vtvc_meta_row a{color:rgba(255,255,255,.7)}.vsadc
.mc_vtvc_meta_pubdate{padding-bottom:2px}.vtdc_default{background:#302c27}.vtdc_default_g{backgrou
nd:linear-gradient(180deg,rgba(48,2,39,0) 0%,#302c27 100%)}.vtdc_black{background:#111}.vtdc_black_g{background:linear-gradient(180deg,rgba(17,17,17,0)
0%,#111 100%)}.vtdc_blue{background:#3a4e74}.vtdc_blue_g{background:linear-gradient(180deg,rgba(58,78,116,0)
0%,#3a4e74 100%)}.vtdc_brown{background:#69423d}.vtdc_brown_g{background:linear-gradient(180deg,rgba(105,66,6
1,0) 0%,#69423d 100%)}.vtdc_grey{background:#464646}.vtdc_grey_g{background:linear-gradient(180deg,rgba(70,70,70,0)
0%,#464646 100%)}.vtdc_green{background:#324f32}.vtdc_green_g{background:linear-gradient(180deg,rgba(50,79,50,0)
) 0%,#324f32 100%)}.vtdc_orange{background:#8c5400}.vtdc_orange_g{background:linear-gradient(180deg,rgba(140,84,
0,0) 0%,#8c5400 100%)}.vtdc_pink{background:#a3394b}.vtdc_pink_g{background:linear-gradient(180deg,rgba(163,57,75,0)
0%,#a3394b 100%)}.vtdc_purple{background:#774077}.vtdc_purple_g{background:linear-gradient(180deg,rgba(119,64,1
19,0) 0%,#774077 100%)}.vtdc_red{background:#811515}.vtdc_red_g{background:linear-gradient(180deg,rgba(129,21,21,0)
0%,#811515 100%)}.

```

```
100%)).vtdc_white{background:#464646}.vtdc_white_g{background:linear-gradient(180deg,rgba(70,70,70,0
)
0%,#464646
100%)).vtdc_yellow{background:#755b00}.vtdc_yellow_g{background:linear-gradient(180deg,rgba(117,91,
0,0)
0%,#755b00
100%)).vtdc_teal{background:#256868}.vtdc_teal_g{background:linear-gradient(180deg,rgba(37,104,104,0)
0%,#256868
100%)).cipt,.cipg,.cipa,.cipl,.ciptr,.ciplr{display:inline-block}.cipa,.cipl,.ciplr{cursor:pointer}.vab{vertical-ali
gn:bottom}.vam{vertical-align:middle}.vat{vertical-align:top}.vabl{vertical-align:baseline}.vatt{vertical-alig
n:text-top;border-radius:0}.vatb{vertical-align:text-bottom}
evronDown12,
evronUp12{background:url(/rp/QKlTrqL25sGDqfRYQjkMWJWDeG8.png)
no-repeat;background-size:494px 58px;width:12px;height:12px} evronDown12{background-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{heigh
t:16px;width:16px}:not(.dc_aud_wrp)>.sw_play{background-image:url(
goAAAANSUUhEUgAAACAAAAAAgCAMAAABEpIrGAAAAaVBMVEUAAAAAD58AFaQAE6UAFKUA
E6QAFKUAQAEqYAD58AE6QAE6UAFKQAEqUAD6QAE6MAE6QAD6cAE6QAFaQAFKQAEqQAFKUA
EqQAFKUAQAEqIAFKMAEQMAE6MAD58AE6UAE6UAE6IAFKYAFKYAE6MaDJ//AAAAI3RSTIMAEG
Cfz+//XyCQj79vMEDfIKAWoK/vYL9gcHDPMM9QkK+fzHYYSkAAAEVSURBVHgBdZMFkuwwEPPV
k/ULx8nSMN7/jh/X1dUDKgjpyaTIZavqLUF6q2rTo5o24aoaRVkH9MNOkk1DD3QW8AzV7M/zAtLDNGby
qKA5k9+d58OkKPukZFjmU0/0Qf6PdeXGVcDu3wBQphcXpxH+vlioyhtyHRwLrWQeICCEzHyZvunlBmLI
mo0WtsEQQnZU2jMFQwg5cFTCGiGEGF8CBUMMGReGdCpvnG/xaT7Ennc3RFyaOMZIOu7LXLF2Q8GL
1tSyROMGx3/O0aSzH1bEyznOUKYZcC/C+XVh2nJT6Yk+yd7giz3wV/LstS8NfvgTPCN0qVkofAk8A+th
MsnehzXQmqLmBVdqHXfZ97JPkPa3ldP6DeOGDIAP873EAAAAAEIftkSuQmCC);background-size:16px
16px}#slideexp1_304AEC .slide { width: 94px; margin-right: 20px; }#slideexp1_304AECc .b_slidebar .slide
{ border-radius: 6px; }#slideexp1_304AEC .slide:last-child { margin-right: 1px; }.b_sldrp
.slide{box-shadow:0 0 0 1px rgba(0,0,0,.05)}.b_cards .cico,.b_slidebar .slide
.cico{border-radius:0}#b_content .b_wpt_container .l_eprd_imgsetgrid.l_eprd_imgsetgrid_actionlink
.l_eprd_imgsetgrid_item .cico{border-radius:0!important}.b_sldrp .slide.see_more{box-shadow:0 0 0 0
rgba(0,0,0,0)}.b_sldrp .slide.see_more .carousel_seemore{border:0}.b_sldrp
.slide.see_more:hover{box-shadow:0 0 0 0 rgba(0,0,0,0)}#slideexp1_304AECc { margin: -4px; }
#slideexp1_304AECc .b_viewport { padding: 4px 1px 4px 1px; margin: 0 3px; }#slideexp1_304AECc
.b_slidebar .slide[data-mini="1"] { display:none; }Wideo Jak Poprawić Efektywność paneli
fotowoltaicznychObejrzyj wideo0:26Jak uzyskać maksimum z paneli fotowoltaicznych? Panele
Fotowoltaiczne Sławomir SoltysWyswietlenia: 29,6tys.11 mies. temuObejrzyj wideo32:12Laczenie PANELI
FOTOWOLATICZNYCH o roznej mocy, czy mozna, jak je laczyc i o czym nalezy pamietac?
SprawdzoneWPraktyce - Fotowoltaika i nie tylko..Wyswietlenia: 3,8tys.30 gru 2024Obejrzyj
wideo9:26Najlepszy kat nachylenia paneli fotowoltaicznych - sprawdź, jaki wybrac! Kanal PVWyswietlenia:
```

4,2tys.16 lut 2025Obejrzyj całe wideoKrotkie wideojak poprawić efektywność paneli fotowoltaicznych00:34  
00:26 00:56 02:01TikTok00:38 00:21 Zobacz wszystkoObejrzyj całe wideo.**b\_imgcap\_altitle p**  
**strong,.b\_imgcap\_altitle .b\_factrow strong{color:#767676}#b\_results**  
**.b\_imgcap\_altitle{line-height:22px}.b\_imgcap\_altitle{display:flex;flex-direction:row-reverse;gap:var(--mai-s**  
**mtc-padding-card-default)}.b\_imgcap\_altitle**  
**.b\_imgcap\_img{flex-shrink:0;display:flex;flex-direction:column}.b\_imgcap\_altitle**  
**.b\_imgcap\_main{min-width:0;flex:1}.b\_imgcap\_altitle .b\_imgcap\_img>div,.b\_imgcap\_altitle .b\_imgcap\_img**  
**a{display:flex}.b\_imgcap\_altitle .b\_imgcap\_img**  
**img{border-radius:var(--mai-smtc-corner-card-default)}.b\_hList img{display:block}.b\_imagePair ner**  
**img{display:block;border-radius:6px}.b\_algo .vttv2 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\_i**  
**magePair.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  
sightsOverlay{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\_mcOv  
erlay{z-index:8;background-color:#000;opacity:.6;position:fixed;top:0;left:0;width:100%;height:100%}dobra  
rada.plWydajność paneli fotowoltaicznych - Czy można ją W najnowszym artykule zgłębiamy temat  
wydajności paneli fotowoltaicznych i odkrywamy, jak można ją zwiększyć. Od czynników wpływających na

Instaluj panele pod optymalnym kątem nachylenia (30-40?) zwrócone na południe, aby zmaksymalizować eksploatację na światło słoneczne i absorpcję

W tym artykule odkryjesz praktyczne strategie oparte na najnowszych badaniach i case studies, które pomogą Ci wydobyć maksimum z Twojej instalacji.

Planowanie inwestycji w fotowoltaikę w 2026 roku będzie w dużej mierze zależało od dostępu do dotacji oraz warunków rozliczeń energii. Zmieniające się programy wsparcia, rosnące

Znaczenie mocy falownika w instalacji fotowoltaicznej Moc falownika w instalacji fotowoltaicznej jest kluczowym parametrem, który wpływa na efektywność całego systemu. Dostosowanie mocy

Jak zrozumieć różne formy dofinansowania W dobie dynamicznego rozwoju inwestycji, zrozumienie różnych form dofinansowania jest kluczowe dla efektywnego zarządzania

Warto również zwrócić uwagę na możliwość podłączenia dodatkowych źródeł ciepła, takich jak panele fotowoltaiczne lub kolektory słoneczne, co może jeszcze bardziej zwiększyć efektywność.

W miarę jak technologia wciąż się rozwija, przyszłość ogrzewania i chłodzenia jachtów zyskuje nowe, innowacyjne oblicze. Trendy wskazują na coraz większy nacisk na efektywność.

Nowoczesne technologie, takie jak ogniwa monokrystaliczne czy inwertery z optymalizatorami mocy, umożliwiają zwiększenie uzysku energetycznego. Równie istotne jest

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