Why does the castle need solar power

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Solar, in architecture, private room located on the floor above the great hall in a late medieval English manor house. The solar served as a kind of parlour to which the family of the owner of the manor house or castle ...

Edinburgh Castle has unveiled its newly installed solar panels, part of Historic Environment Scotland"s (HES) continued programme to reduce energy use across the historic properties in its care.

A medieval castle has abandoned its dark ages roots and entered the 21st Century age of solar energy.

Today, the castle uses a biomass system supplemented by solar power. The solar panels had to be specially fitted onto the old roof, and they provide hot water to the visitor toilets.

What Is Solar Power?Solar Power at Sutton Hoo, SuffolkStaying Warm at Penrhyn Castle, GwyneddSolar Power at Anglesey Abbey, CambridgeshirePenrhyn has nearly half an acre"s worth of solar panels working hard to help reduce the castle"s carbon footprint. Each of the castle"s 100 rooms are heated by green energy, with nearly 70% of the site"s energy needs being met by its solar panels and biomass boiler. Staying true to the spirit of invention and creativity at Penrhyn Castle, we"re als...See more on nationaltrust .uk#b_results h2 #kn_p,#b_results h3 #kn_p,#b_results h4 #kn_p{position:relative;display:inline}#b_pole #kn_p,.b_ans #kn_p{display:none}#kn_a{color:#4007a2;font:14px arial;left:-20px;position:absolute;top:25%}.b_title #kn_a,.b_overflow #kn_a{left:-3px;position:relative}ol#b_results li.b_ad,ol#b_topw.b_results_eml li.b_ad,ol#b_topw li.b_ad{background-color:transparent;border-right:0;border-bottom:1px solid #ebebeb;margin-bottom:1px;padding-right:0;padding-bottom:5px}ol#b_results li.b_adBottom,ol#b_topw.b_results_eml li.b_adBottom{border-top:1px solid #ebebeb;border-bottom:0;padding-bottom:0}ol#b_context li.b_ad,ol#b_rrat_cont li.b_ad{background-color:transparent}.sb_add cite{text-transform:lowercase}#b_results .b_ad .sb_adTA .b_caption,#b_topw.b_results_eml .b_ad .sb_adTA .b_caption,#b_results .b_ad .sb_adTA .b_vlist2col li,#b_topw.b_results_eml .b_ad .sb_adTA .b_vlist2col li,#b_results .b_ad .sb_adTA .b_factrow,#b_topw.b_results_eml .b_ad .sb_adTA .b_factrow,#b_results .b_ad .sb_adTA .b_bcfactrow,#b_topw.b_results_eml .b_ad .sb_adTA .b_bcfactrow,#b_topw .b_ad .sb_adTA

.b_caption,#b_topw .b_ad .sb_adTA .b_vlist2col li,#b_topw .b_ad .sb_adTA .b_factrow,#b_topw .b_ad .sb_adTA .b_bcfactrow{padding-bottom:var(--smtc-gap-between-content-xx-small)}#b_results .b_ad .sb_adTA .b_vlist2col,#b_topw.b_results_eml .b_ad .sb_adTA .b_vlist2col,#b_results .b_ad .sb_adTA .b_factrow,#b_topw.b_results_eml .b_ad .sb_adTA .b_factrow,#b_results .b_ad .sb_adTA .b_bcfactrow,#b_topw.b_results_eml .b_ad .sb_adTA .b_bcfactrow,#b_results .b_ad .sb_adTA .b_bcfactrow,#b_results .b_ad .sb_adig,#b_topw.b_results_eml .b_ad .sb_adig,#b_topw .b_ad .sb_adTA .b_vlist2col,#b_topw .b_ad .sb_adTA .b_factrow,#b_topw .b_ad .sb_adTA .b_bcfactrow,#b_topw .b_ad .sb_adig{margin-top:0}#b_results .b_ad h3.b_adlabel,#b_topw.b_results_eml .b_ad h3.b_adlabel,#b_topw .b_ad h3.b_adlabel{margin-bottom:var(--smtc-gap-between-content-xx-small)}.b_ad .pa_mlo~.sb_adt{margin-bottom:-6px}.b_ad_description{font:var(--bing-smtc-text-global-body3);color:var(--bing-ads-smtc-desktop-foreground-snippet-default)}div#b_content ol#b_results li.b_ad,div#b_content ol#b_topw.b_results_eml li.b_ad,div#b_content ol#b_topw li.b_ad{border-bottom:0}div#b_content ol#b_results li.b_adBottom,div#b_content ol#b_topw.b_results_eml li.b_adBottom,div#b_content ol#b_topw li.b_adBottom{border-top:0}#b_results .sb_add h2:hover a,#b_topw.b_results_eml .sb_add h2:hover a{text-decoration:underline}#b_results .sb_add h2:hover,#b_topw.b_results_eml .sb_add h2:hover{cursor:pointer}.b_ad li.b_adLastChild{margin-bottom:0}#b_results>li.b_ad{background-color:#fcfaf9}
#b_topw.b_results_eml>li.b_ad{background-color:#fcfaf9} #b_context>li.b_ad{background-color:#fcfaf9}
.b_dark #b_results>li.b_ad{background-color:inherit} .b_dark #b_topw.b_results_eml>li.b_ad{background-color:inherit}.b_ad .b_attribution>span{font-size:14px;color:#666}.b_ad .b_attribution{text-overflow:ellipsis;overflow:hidden;white-space:nowrap}.b_ad .b_attribution .b_adurl{white-space:nowrap;text-overflow:ellipsis;overflow:hidden;display:inline-block;vertical-align:bottom}.b_ad h2.b_topTitleAd{font:var(--bing-smtc-text-global-title-2-alt)}#b_content:hover .b_ad.b_adTop li:first-child .sb_adTA h2 a.b_ExpandAdUnderlineWithHeight{text-decoration:underline}.b_adBottom .b_adscv{content-visibility:auto;margin-left:-22px;padding-left:22px;margin-right:-22px;padding-right:22px;margin-bottom:-16px;padding-bottom:16px}#b_results .b_ad .b_attribution .b_adurl:hover,#b_topw.b_results_eml .b_ad .b_attribution .b_adurl:hover,#b_results .b_ad .b_attribution cite a:hover,#b_topw.b_results_eml .b_ad .b_attribution cite a:hover{text-decoration:underline;cursor:pointer}#b_results .b_ad .ad_fls p:hover,#b_topw.b_results_eml .b_ad .ad_fls p:hover,#b_results .b_ad .b_caption p:hover,#b_topw.b_results_eml .b_ad .b_caption p:hover,#b_results .b_ad .b_caption p:hover .b_colorBlend,#b_topw.b_results_eml .b_ad .b_caption p:hover .b_colorBlend,#b_results .b_ad .b_ad_description:hover,#b_topw.b_results_eml .b_ad .b_ad_description:hover,#b_results .b_ad .b_caption div.b_secondaryText:hover,#b_topw.b_results_eml .b_ad .b_caption div.b_secondaryText:hover{cursor:pointer}.sb_add.sb_adTA h2:not(.b_topTitleAd){font:var(--bing-smtc-text-global-subtitle1);line-height:var(--bing-ads-smtc-algo-title-line-height);color:var(--smtc-ctrl-link-foreground-brand-rest)}.sb_add.sb_adTA .b_adTopIcon_container{display:flex;align-items:center;padding-bottom:var(--smtc-gap-between-content-x-small);position:relative;height:40px;cursor:pointer}#b_results>.b_ad .sb_add.sb_adTA .b_adTopIcon_container .b_icondomian,#b_topw.b_results_eml>.b_ad .sb_add.sb_adTA .b_adTopIcon_container .b_icondomian{color:var(--smtc-foreground-content-neutral-primary)}.sb_add.sb_adTA

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.b_adTopIcon_container
.b_icondomian{font:var(--bing-smtc-text-global-body3);line-height:var(--bing-ads-smtc-algo-site-name-line-height);position:absolute;top:0}.sb_add.sb_adTA .b_adTopIcon_container .b_adTopIcon_domain{display:inline-flex}.b_dark #b_results>.b_ad .sb_add.sb_adTA .b_adTopIcon_container .b_icondomian,.b_dark #b_topw.b_results_eml>.b_ad .sb_add.sb_adTA .b_adTopIcon_container .b_icondomian{color:#111}z{a:1}#b_results .b_adTopIcon_container .b_attribution,#b_context .b_adTopIcon_container .b_attribution,#b_rrat_cont .b_adTopIcon_container .b_attribution{line-height:20px;padding:0}#b_content .b_ad .sb_add .b_adTopIcon_container cite,#b_content .b_ad .sb_add .b_adTopIcon_container cite a,#b_content .sb_add .b_adTopIcon_container cite a:visited,#b_content .sb_add .b_adTopIcon_container cite a:hover{color:var(--smtc-foreground-content-neutral-secondary);text-decoration:none}#b_content .b_adTopIcon_container .b_attribution,.sb_add.sb_adTA .b_adTopIcon_container .b_attribution .b_adurl{font:var(--bing-smtc-text-global-body3);line-height:20px}.sb_add.sb_adTA .b_adTopIcon_container .b_attribution{position:absolute}.sb_add.sb_adTA .b_adTopIcon_container strong{display:contents}.b_adTopIcon_container .sw_ddgn:after{transform-origin:-180px -52px}#b_content .b_adTopIcon_container .b_attribution,#b_results .sb_add.sb_adTA .b_adTopIcon_container .b_attribution .b_adurl,#b_topw.b_results_eml .sb_add.sb_adTA .b_adTopIcon_container .b_attribution .b_adurl,#b_content .b_adTopIcon_container .b_attribution:hover,#b_results .sb_add.sb_adTA .b_adTopIcon_container .b_attribution .b_adurl:hover,#b_topw.b_results_eml .sb_add.sb_adTA .b_adTopIcon_container .b_attribution .b_adurl:hover{text-decoration:none}.b_topAdSlug{color:#202124;margin-bottom:var(--smtc-gap-between-content-x-small);font:var(--bing-smtc-text-global-body3-strong);line-height:20px}z{a:1}z{a:1}.b_ad .b_titleBL{background-color:var(--bing-smtc-ctrl-favicon-background);border:1px solid var(--bing-smtc-stroke-ctrl-default);border-radius:var(--smtc-corner-circular);vertical-align:text-bottom;margin-right:var(--smtc-gap-between-content-small);width:26px;height:26px;text-align:center;display:inline-flex;align-items:center;justify-content:center;overflow:hidden}.b_ad .b_titleBL.b_titleBLlarge{border:1px solid var(--bing-smtc-stroke-ctrl-subtle);border-radius:var(--mai-smtc-corner-list-card-default);width:unset;height:unset;margin-right:var(--smtc-gap-between-content-x-small);display:inline-block}.b_titleBL .saa_f{transform:scale(calc(18/32));overflow:unset}.b_titleBL.b_titleBLlarge .saa_f{overflow:unset;transform:unset;margin:var(--smtc-gap-between-content-xx-small)}.b_titleBL img{border-radius:var(--mai-smtc-corner-favicon)}.b_titleBL.b_titleBLlarge img{border-radius:var(--mai-smtc-corner-favicon)}.b_adcaret{display:inline-block}.b_adcaret bubble_item{display:block;cursor:pointer;margin:0 14px 0 var(--smtc-padding-ctrl-sm-text-top)}.b_attribution a.b_adcaret div bubble_item:has(span.sw_ddgn),.b_attribution a.b_adcaret div bubble_item:has(span.sw_ddw),cite a.b_adcaret div bubble_item:has(span.sw_ddgn),cite a.b_adcaret div bubble_item:has(span.sw_ddw){display:block;cursor:pointer;padding:var(--smtc-gap-between-content-xx-small) var(--smtc-gap-between-content-x-small) 0 var(--smtc-gap-between-content-x-small);margin:0}.b_adcaret bubble_item .sw_ddgn,.b_adcaret bubble_item .sw_ddw{margin:var(--smtc-padding-ctrl-text-side) calc(-1*var(--smtc-gap-between-content-xx-small)) var(--smtc-padding-ctrl-text-side) calc(-1*var(--smtc-padding-ctrl-sm-text-top));display:block}.b_adcaret_content{text-align:center}.b_ad .sb_adTA:not(:has(.b_adRebate)) .b_adcaret:not(.trgr_icon){margin-left:var(--bing-ads-smtc-url-icon-padding-left);margin-right:var(--bing-ads-

smtc-url-icon-padding-right)}.b_ad .sb_adTA:not(:has(.b_adRebate)) .b_adcaret:not(.trgr_icon) bubble_item{margin:unset}.sb_add .hhTitle strong{font-weight:600}.sb_adTA span.ad_sym,.format_sym{font-family:Calibri,"Segoe UI",Arial,Helvetica,sans-serif;line-height:0}.sb_adTA span.ad_title_sym{font:var(--bing-smtc-text-global-body3);vertical-align:top}.sb_adTA .b_adSlug{font:var(--bing-smtc-text-global-caption2);line-height:var(--bing-ads-smtc-ad-slug-line-height);border-radius:var(--bing-ads-smtc-ad-slug-corner);display:inline-block}.b_adSlug{font-size:11px;font-weight:normal;line-height:11px;border-radius:6px;display:inline-block}.b_adSlug{color:var(--bing-ads-smtc-desktop-foreground-ad-slug-default);border:1px solid var(--bing-ads-smtc-ad-slug-stroke);vertical-align:middle}.sb_adTA .b_adSlug,.ba_results .b_adSlug{color:var(--bing-ads-smtc-desktop-foreground-ad-slug-default);border:1px solid var(--bing-ads-smtc-ad-slug-stroke)}#b_context>li.b_ad .sb_adBrandSidebar.sb_adTA .b_adSlug>a,#b_rrat_cont>li.b_ad .sb_adBrandSidebar.sb_adTA .b_adSlug>a{color:var(--bing-ads-smtc-desktop-foreground-ad-slug-default)}.b_adSlug{padding:0 var(--smtc-gap-between-content-xxx-small) 0 var(--smtc-gap-between-content-xxx-small)}.b_adSlug{margin-right:var(--smtc-gap-between-content-xx-small)}.sb_adTA .b_adSlug,.ba_results .b_adSlug{margin-right:var(--smtc-padding-ctrl-text-side)}z{a:1}z{a:1}z{a:1}.ad_mrrtngscr{font-weight:bold;line-height:var(--bing-ads-smtc-algo-url-line-height)}.b_ad .csrc,.pa_item .csrc{padding-right:0}.csrc .sw_rtcolor{color:#d32f2f;font-weight:bold;font-family:"Segoe UI",Arial,Helvetica,Sans-Serif}.b_dark .csrc .sw_rtcolor{color:#f66}.csrc .sw_rtright{padding-left:5px}.csrc .sw_rtleft{padding-right:5px}.csrc .nobg{background-image:none}.csrc .rms_st{padding-right:1px;vertical-align:inherit;max-height:14px;max-width:14px}#b_content .b_ad .b_secondaryText .b_colorBlend,#b_results>.b_ad .b_colorBlend,#b_topw.b_results_eml>.b_ad .b_colorBlend,#b_results>.b_ad .b_accentColor,#b_context>.b_ad .b_accentColor,#b_rrat_cont>.b_ad .b_accentColor,#b_topw.b_results_eml>.b_ad .b_accentColor,#b_context>.b_ad .b_colorBlend,#b_rrat_cont>.b_ad .b_colorBlend,#b_dynRail>.b_ad .b_colorBlend,.pa_hover .b_secondaryText .b_colorBlend,#b_pole .pa_carousel .b_secondaryText .b_colorBlend{color:var(--bing-ads-smtc-desktop-foreground-snippet-default)}#b_results .b_ad .sb_adTA .b_belowcaption,#b_topw.b_results_eml .b_ad .sb_adTA .b_belowcaption{padding-bottom:4px}#b_results .b_ad .b_vlist2col.b_deep ul,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep ul,#b_topw .b_ad .b_vlist2col.b_deep ul{width:292px}.b_ad .b_deep h3{font-size:20px;line-height:24px}.b_ad .b_deep h3 strong{font-weight:normal}#b_results .b_ad .sb_adTA .b_vlist2col.b_deep,#b_topw.b_results_eml .b_ad .sb_adTA .b_vlist2col.b_deep,#b_results .b_ad .sb_add .b_deep+.b_moreLink,#b_topw.b_results_eml .b_ad .sb_add .b_deep+.b_moreLink,#b_results .b_ad .esl_collpased,#b_topw.b_results_eml .b_ad .esl_collpased,#b_topw .b_ad .sb_adTA .b_vlist2col.b_deep,#b_topw .b_ad .sb_add .b_deep+.b_moreLink,#b_topw .b_ad .esl_collpased{padding-left:var(--smtc-gap-between-content-medium)}#b_results .b_ad .b_vlist2col.b_deep ul:first-child,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep ul:first-child,#b_topw .b_ad .b_vlist2col.b_deep ul:first-child{margin-right:0}#b_results .b_ad .b_vlist2col.b_deep>ul:nth-child(2),#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep>ul:nth-child(2),#b_topw .b_ad .b_vlist2col.b_deep>ul:nth-child(2){margin-left:var(--smtc-padding-content-xx-large)}#b_results .b_ad

form.b_externalSearch,#b_topw.b_results_eml .b_ad form.b_externalSearch,#b_topw .b_ad form.b_externalSearch{margin-left:var(--smtc-gap-between-content-medium)}.b_ads1line{white-space:nowrap;overflow:hidden;text-overflow:ellipsis;display:block}.pa_item .b_attribution cite,#b_context .pa_item .b_attribution cite,.pa_hover .b_attribution cite,.pa_item .b_footnote .pa_url cite,#b_rrat_cont .pa_item .b_attribution cite{color:#111;opacity:.8}#bpage.b_drk .pa_item .b_footnote .pa_url cite{color:#d2d0ce}#b_results .b_ad .sb_adTA .b_vlist2col li .ad_vsl,#b_topw.b_results_eml .b_ad .sb_adTA .b_vlist2col li .ad_vsl{padding-top:7px;display:block}#b_results .b_ad .b_deep span.ad_vsl,#b_topw.b_results_eml .b_ad .b_deep span.ad_vsl{font-family:"Arial",Helvetica,Sans-Serif;font-size:18px;line-height:22px}#b_results .b_ad .b_deep span.ad_vsl strong,#b_topw.b_results_eml .b_ad .b_deep span.ad_vsl strong{font-weight:400}#b_results .b_ad .b_vlist2col.b_deep .ad_vsl,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep .ad_vsl{cursor:pointer}#b_results .b_ad .b_vlist2col.b_deep .ad_vsl,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep .ad_vsl{margin-left:-16px;padding-left:16px;margin-right:-12px;padding-right:12px;margin-bottom:-8px;padding-bottom:8px}#b_results .b_ad .b_vlist2col.b_deep li:hover .ad_vsl a,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep li:hover .ad_vsl a{text-decoration:underline}#b_results .b_ad .b_vlist2col.b_deep li:not(.b_lastRowSL):hover,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep li:not(.b_lastRowSL):hover{box-shadow:0 0 0 1px rgba(0,0,0,.05),0 2px 3px rgba(0,0,0,.18);transform:scale(1.1);transition:all .5s ease 0s;border-radius:8px}#b_results .b_ad .b_vlist2col.b_deep li,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep li{padding:0 7px 7px 16px;margin-bottom:2px;margin-top:2px;margin-left:-16px}#b_results .b_ad .b_vlist2col.b_deep div.ad_vsl h3 a strong,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep div.ad_vsl h3 a strong{color:#4007a2}#b_results .b_ad .b_vlist2col.b_deep,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep{overflow:unset}#b_results .b_ad .b_vlist2col.b_deep li.b_lastRowSL,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep li.b_lastRowSL{margin-right:-302px}#b_results .b_ad .b_vlist2col.b_deep li.b_lastRowSL:hover,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep li.b_lastRowSL:hover{box-shadow:0 0 0 1px rgba(0,0,0,.05),0 2px 3px rgba(0,0,0,.18);transform:scale(1.045);transition:all .5s ease 0s;border-radius:8px}#b_results .b_ad .b_vlist2col.b_deep a.ad_vslWiderClk,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep a.ad_vslWiderClk{white-space:nowrap;overflow:hidden;text-overflow:ellipsis;display:block}#b_results .b_ad .b_vlist2col.b_deep ul:first-child .ad_vsl,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep ul:first-child .ad_vsl,#b_results .b_ad .b_vlist2col.b_deep ul:first-child a.ad_vslWiderClk,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep ul:first-child a.ad_vslWiderClk{margin-left:calc(-1*var(--smtc-gap-between-content-medium));padding-left:var(--smtc-gap-between-content-medium);margin-right:calc(-1*var(--smtc-gap-between-content-x-large));padding-right:var(--smtc-gap-between-content-x-large)}#b_results .b_ad .b_vlist2col.b_deep ul:nth-child(2) .ad_vsl,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep ul:nth-child(2) .ad_vsl,#b_results .b_ad .b_vlist2col.b_deep ul:nth-child(2) a.ad_vslWiderClk,#b_topw.b_results_eml .b_ad .b_vlist2col.b_deep ul:nth-child(2) a.ad_vslWiderClk{margin-left:calc(-1*var(--smtc-gap-between-content-xx-large));padding-left:var(--smtc-gap-between-content-xx-large)}CleanChoice EnergyCleanChoice Energy® | 100% Renewable Energy in

Why does the castle need solar power

SOLAR PRO.

Heat pumps have been installed in ancient Roman drains and solar panels placed on a crumbling castle in a net zero push which risks "damaging" Britain"s most precious historic buildings.

But a need was felt for more privacy to be enjoyed by the heads of the household, encouraged by the senior women, who wanted a daytime space to talk, read and view parts of the grounds.

Penrhyn has nearly half an acre"s worth of solar panels working hard to help reduce the castle"s carbon footprint. Each of the castle"s 100 rooms are heated by green energy, with nearly 70% of the site"s energy needs ...

For years, installing solar panels on the steep, historic rooftops of Schloss Blumenthal was off-limits. As a protected monument, the structure demanded strict adherence to aesthetic integrity.

The jewel in the castle"s crown is the spectacular 22-square-metre solar thermal field on the roof that provides the building with hot water. This hot water is used for both radiators and the jacuzzis used by ...

The panels are part of a project to turn Dunster into the greenest castle in Britain. The Trust plans to save energy across the board, along with reducing water consumption, increasing recycling, promoting ...

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