

## What can I choose in the calculator?

This indicator reflects the CO<sub>2</sub> equivalent emissions of the six main greenhouse gases included in the Kyoto protocol (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PCFs and SF<sub>6</sub>) associated with the conversion and consumption of energy.

## CO<sub>2</sub> Equivalent Emissions



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## RELEVANCE - Why does it matter for Switzerland?

Greenhouse gas (GHG) emissions from human activities are very likely to be the main cause of the currently observed global warming. In turn, a temperature increase on earth is very likely to result in social, economic and environmental damage associated with an increase of extreme weather events, sea level rise and ocean acidification. For Switzerland, the melting of glaciers and permafrost are amongst the most critical direct environmental impacts of global warming, potentially leading to severe socio-economic impacts. By ratifying the Kyoto protocol in 1997 Switzerland committed to setting internationally binding emissions reduction targets.[1] Switzerland aims to reduce GHG emissions by 20% relative to 1990 by 2020.[2] Reducing GHG emissions is also important to the economy as a whole. For example a carbon tax of currently CHF60/tonne (up from CHF36 in 2012) applies to heating oil and gas, which corresponds to a total annual revenue for the Confederation of about CHF740 million. Future policy measures to mitigate global warming are likely to increasingly penalise the emissions of greenhouse gases.

## SWISS & GLOBAL CONTEXT

### SWISS CONTEXT

- The energy sector is responsible for around 80% of the Swiss GHG emissions

- Total CO<sub>2</sub> emissions from the energy sector dropped between 1990 and 2012 from 40.9 to 38.4 MtCO<sub>2</sub>eq/year.
- The national 10% reduction target for emissions from the energy sector (for the 2008-2012 average compared to 1990), as formulated under the Swiss CO<sub>2</sub> law, was not met.[4] The 6.2% shortfall was however compensated through the acquisition of carbon credits.

## GLOBAL CONTEXT

Replacement of old appliances by new and efficient ones is often not economically viable based on saved energy cost and current electricity prices.

'Rebound effects' may counteract the energy savings from more efficient appliances. The financial savings from lower running costs can lead to purchase of more appliances, or changes in lifestyle (e.g. wash more often).

[Learn more](#)

## REFERENCES

[1] Energy Efficiency Market Report 2013, Market Trends and Medium-Term Prospects, <http://www.iea.org/W/bookshop/add.aspx?id=460>

[2] PROGNOSE 2012, Die Energieperspektiven für die Schweiz bis 2050, Energienachfrage und Elektrizitätsangebot in der Schweiz 2000–2050.

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.dokuwiki div.page { padding: 5px; } #wrapper #content h1 { margin-top: 0; padding-top: 0; }
#wrapper #content.padded, #wrapper #content .padded { padding: 0 0px; } #wrapper #content
.blocWrapper { margin: 0 5px 0 5px; } #wrapper #content .blocGroupWrapper { margin: 0; width:
915px; float: left; } #wrapper #content .bloc { float: left; margin: 0px 10px 10px 0px; } #wrapper
#content .bloc header { padding: 1px 5px; } #wrapper #content .bloc header.lined { border-bottom:
1px solid #c2c2c2; } #wrapper #content .bloc h2 { font-size: 20px; font-family: 'ProximaNovaCond-
Light'; color: #535559; font-weight: normal; text-transform: uppercase; margin: 0; } #wrapper
#content .bloc.single { width: 295px; } #wrapper #content .bloc.double { width: 610px; } #wrapper
#content .bloc.triple { width: 915px; } #wrapper #content .bloc.bgWhite { background: #fff; }
#wrapper #content .bloc header.bgOrange h2 { color: #fff; font-weight: normal; } #wrapper
#content .bloc header.bgOrange .blocLink { border-left: 1px solid #fe984d; color: #fff; } #wrapper
#content .bloc .blocLink { float: right; line-height: 17px; border-left: 1px solid #c2c2c2; padding-left:
20px; font-size: 14px; text-transform: uppercase; padding-top: 3px; color: #535559; font-family:
'ProximaNovaCond-Regular'; } #wrapper #content .bloc .newsBloc { border-bottom: 1px solid
#c2c2c2; padding: 0px 0px 20px 0px; /*padding-bottom: 20px;*/ margin-bottom: 20px; } #wrapper
#content .bloc .newsBloc h3 { font-size: 14px; margin-bottom: 10px; } #wrapper #content .bloc
.newsBloc p { font-size: 13px; line-height: 17px; margin-bottom: 10px; } #wrapper #content .bloc a {
color: #00a9e0; text-decoration: none; font-size: 14px; } #wrapper #content .half { width: 50%; float:
left; } #wrapper #content .larged { width: 33%; float: left; } #wrapper #content .questionAnswer h4
{ color: #fe6b00; margin-bottom: 10px; font-size: 14px; line-height: 17px; } #wrapper #content
.questionAnswer h4 img { float: left; margin-right: 4px; } #wrapper #content .questionAnswer p {
font-size: 13px; line-height: 17px; margin-bottom: 10px; } #wrapper #content .questionAnswer p img
{ float: left; margin-right: 4px; } #wrapper #content .questionAnswer .bg { float: left; color: #fff;
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border-radius: 8px; width: 15px; height: 15px; text-align: center; font-size: 11px; font-weight: normal;
} #wrapper #content .questionAnswer .bg.question { background: #fe6b00; } #wrapper #content
.questionAnswer .bg.answer { background: #535559; } #wrapper #content .intro { margin-bottom:
60px; } #wrapper #content .intro .img { float: left; width: 460px; } #wrapper #content .intro .txt {
float: left; width: 480px; } #wrapper #content .intro .txt h1 { font-family: 'ProximaNovaCond-
Semibold'; font-size: 44px; color: #1d1d1b; text-transform: uppercase; margin-bottom: 6px; }
#wrapper #content .intro .txt h2 { font-family: 'ProximaNovaCond-Light'; font-size: 32px; color:
#535559; text-transform: uppercase; margin-bottom: 6px; } #wrapper #content .intro .txt p { color:
#1d1d1b; font-size: 16px; line-height: 20px; margin-bottom: 20px; } #wrapper #content
#newsWrapper { background: #fff; } #wrapper #content #newsWrapper .news { padding: 20px; }
#wrapper #content #newsWrapper .news .img { float: left; /*width: 280px;*/ width: 220px; }
#wrapper #content #newsWrapper .news .txt { float: left; width: 100px; padding-left: 10px; }
#wrapper #content #newsWrapper .news h3 { font-family: 'ProximaNovaCond-Light'; font-size: 16px;
text-transform: uppercase; margin-bottom: 8px; } #wrapper #content #newsWrapper .news h2 {
font-family: 'ProximaNovaCond-Regular'; font-size: 28px; margin-bottom: 15px; } #wrapper #content
#newsWrapper .news p { font-size: 16px; margin-bottom: 20px; } #wrapper #content
#newsWrapper.detail { margin-bottom: 20px; } #wrapper #content #newsWrapper.detail img {
width: 440px; float: left; margin: 0 20px 20px 0; } #wrapper #content #faqWrapper h2 { text-align:
center; font-family: 'ProximaNovaCond-Semibold'; font-size: 26px; text-transform: uppercase; color:
#1d1d1b; margin-bottom: 20px; } #wrapper #content #faqWrapper .blocWrapper .bloc { height:
200px; position: relative; } #wrapper #content #faqWrapper .blocWrapper .bloc .content { padding:
20px; } #wrapper #content #faqWrapper .blocWrapper .bloc h3 { font-family: 'ProximaNovaCond-
Semibold'; font-size: 26px; text-transform: uppercase; color: #1d1d1b; text-align: left; } #wrapper
#content #faqWrapper .blocWrapper .bloc h4 { font-family: 'ProximaNovaCond-Light'; font-size: 19px;
text-transform: uppercase; color: #1d1d1b; margin-bottom: 20px; } #wrapper #content #faqWrapper
.blocWrapper .bloc .bluecornerlink { position: absolute; bottom: 20px; } #wrapper #content
#faqWrapper .blocWrapper .bloc .bluecornerlink a { color: #fff; } #wrapper #content
#faqWrapper.detail { margin-bottom: 40px; } #wrapper #content #faqWrapper.detail li {
background: #fff; padding-top: 20px; border-bottom: 1px solid #c2c2c2; cursor: pointer; } #wrapper
#content #faqWrapper.detail li .number { float: left; width: 30px; height: 30px; margin: 0 35px 15px
15px; text-align: center; background: #fe6b00; border-radius: 15px; line-height: 30px; color: #fff; }
#wrapper #content #faqWrapper.detail li .question { float: left; font-family: 'ProximaNovaCond-
Regular'; font-size: 28px; line-height: 30px; width: 840px; padding-bottom: 20px; padding-right: 20px;
} #wrapper #content #faqWrapper.detail li .question p { font-size: 28px; line-height: 30px; }
#wrapper #content #faqWrapper.detail li .answer { display: none; background: #fff; padding: 20px
20px 20px 80px; font-size: 16px; line-height: 20px; } #wrapper #content #faqWrapper.detail li
.answer p { margin-bottom: 20px; } #wrapper #content #faqWrapper.detail li.active { background:
#fe6b00; } #wrapper #content #faqWrapper.detail li.active .number { background: #fff; color:
#fe6b00; } #wrapper #content #faqWrapper.detail li.active .question { color: #fff; } #wrapper
#content #faqWrapper.detail li.noborder { border-bottom: none; } #wrapper #content
#lexiqueWrapper .ulWrapper { text-align: center; } #wrapper #content #lexiqueWrapper .ulWrapper
ul li { display: inline-block; *display: inline; zoom: 1; border-right: 1px solid #c2c2c2; padding: 0 11px;
} #wrapper #content #lexiqueWrapper .ulWrapper ul li.noborder { border: none; } #wrapper
#content #lexiqueWrapper .ulWrapper ul li a { color: #535559; font-family: 'ProximaNovaCond-Light';
font-size: 18px; } #wrapper #content #lexiqueWrapper .ulWrapper ul li a.active { color: #000; }
#wrapper #content #lexiqueWrapper #listWrapper { margin: 20px 0; } #wrapper #content
#lexiqueWrapper #listWrapper ul li { background: #fff; padding: 20px; border-bottom: 1px solid
#c2c2c2; } #wrapper #content #lexiqueWrapper #listWrapper ul li h4 { font-family:
'ProximaNovaCond-Regular'; font-size: 24px; margin-bottom: 6px; } #wrapper #content
#lexiqueWrapper #listWrapper ul li p { margin-bottom: 20px; } #wrapper #content #map { width:
100%; height: 550px; background: #e8e8e8; } /* TEXTE PAGES ET ADMION */ #content.text,

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.redactor_box { font-family: Arial, Helvetica, Sans Serif; font-size: 16px; color: #333333; padding: 20px; } #content.text body, .redactor_box body { background: none; } #content.text h1, .redactor_box h1, #content.text h3, .redactor_box h3 { font-family: 'ProximaNovaCond-Light'; color: #535559; font-size: 32px; text-transform: uppercase; } #content.text h3, .redactor_box h3 { font-size: 20px; } #content.text h2, .redactor_box h2, #content.text h4, .redactor_box h4 { font-family: 'ProximaNovaCond-Semibold'; font-size: 44px; color: #000; text-transform: uppercase; margin-bottom: 10px; } #content.text h4, .redactor_box h4 { font-size: 26px; } #content.text p, .redactor_box p { color: #333333; margin-bottom: 20px; } #content.text #wysiwyg, .redactor_box #wysiwyg { margin-bottom: 80px; } #content.text ul li, .redactor_box ul li { margin-bottom: 10px; line-height: 20px; display: block; padding-left: 20px; background: url(lib/tpl/ses/images/bg_bullet-text.png) top left no-repeat; background-position: 0 8px; } #content.text table, .redactor_box table { margin-top: 50px; } #content.text table td, .redactor_box table td { vertical-align: top; } #content.text table td p, .redactor_box table td p, #content.text table td li, .redactor_box table td li { font-family: Arial, Helvetica, Sans Serif; font-size: 16px; color: #535559; } #content.text table td.w50, .redactor_box table td.w50 { width: 460px; padding-right: 20px; } #content.text table td.w50.right, .redactor_box table td.w50.right { width: 460px; padding-right: 0; } hr { background: none; border: none; border-top: 1px solid #c2c2c2; } hr.marged { margin: 40px 0; } .pagination { margin: 20px auto 40px auto; height: 20px; } .pagination ul li { float: left; padding: 0 10px; border-left: 1px solid #c2c2c2; } .pagination ul li a { font-family: 'ProximaNovaCond-Light'; font-size: 20px; line-height: 23px; color: #797a7f; } .pagination ul li a.active { color: #000; } .pagination ul li.prev, .pagination ul li.next { width: 11px; height: 20px; } .pagination ul li.prev, .pagination ul li.nobl, .pagination ul li.next { border-left: 0; } .paddedContent { padding: 20px; } #sponsorsWrapper { margin: 40px 0 30px 20px; } #sponsorsWrapper h2 { font-family: 'ProximaNovaCond-Regular'; font-size: 14px; text-transform: uppercase; } #sponsorsWrapper .sponsor { float: left; margin-right: 60px; } .dokuwiki div.page { overflow: auto; }
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Last update: **2019/10/22 09:17**