

What can I choose in the calculator?

The calculator lets you choose the share of total heat demand covered by Decentralised Heating in Switzerland in the selected year (2035 or 2050). Increasing the Decentralised Heating fraction, will decrease the Centralised (or District) Heating fraction proportionally.

Decentralised Heating



The oldest decentralised heating technology.

Contents

- [Impact](#)
- [Global market](#)
- [Definition](#)
- [Constraints](#)
- [Assumptions](#)
- [References](#)

IMPACT - What are the impacts of Decentralised Heating?

In Switzerland, increasing the share of Decentralised Heating at the expense of Centralised Heating will have the following impacts:

Energy system

- ☹️ Increase primary and final energy demand.
- ☹️ Likely to increase electricity demand if electric forms of decentralised heating are used.
- ☹️ Likely to increase total consumption of heating oil and natural gas as decentralised boilers and cogeneration are more inefficient than centralised solutions.
- ☹️ Impact on the grid depends on the type of technologies chosen.
- ☹️ Likely to decrease energy independence by reducing fossil imports.

Environment & Climate

- ☹️ Very likely to increase global CO2 emissions.
- ☹️ Likely to increase deposited waste.
- ☹️ Other impact categories are technology specific.

Society & Economy

- ☹️ Cost of the energy transition, impact on Balance of payments and Confederation income depend on the technologies chosen.

GLOBAL MARKET - What is the global market for Decentralised Heating?

Decentralised Heating has an average market share of 90% in Europe, but in North, Central and Eastern Europe, this can be 50% or less.[1]

DEFINITION / CONSTRAINTS

DEFINITION - What is Decentralised Heating?

With Decentralised Heating, heat is generated locally, where it is used (a household or small size industrial facility). The heat can be generated with various technologies; in the calculator, Decentralised Heating is represented by the following technologies: Heat pump, Thermal heat pump, Cogeneration, Advanced cogeneration, Boiler, Solar and Direct electric heating.

CONSTRAINTS - What are the key barriers facing Decentralised Heating?

- Barriers are technology specific.

ASSUMPTIONS - What are the assumptions considered in the calculator?

You will find more information about the different decentralised technologies [here](#).

REFERENCES

[1] [Euroheat & Power](#).

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.blocWrapper { margin: 0 5px 0 5px; } #wrapper #content .blocGroupWrapper { margin: 0; width:
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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; }
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#content .bloc header.bgOrange .blocLink { border-left: 1px solid #fe984d; color: #fff; } #wrapper
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#content .bloc .newsBloc h3 { font-size: 14px; margin-bottom: 10px; } #wrapper #content .bloc
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{ color: #fe6b00; margin-bottom: 10px; font-size: 14px; line-height: 17px; } #wrapper #content
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{ float: left; margin-right: 4px; } #wrapper #content .questionAnswer .bg { float: left; color: #fff;
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} #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 {
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#1d1d1b; font-size: 16px; line-height: 20px; margin-bottom: 20px; } #wrapper #content
#newsWrapper { background: #fff; } #wrapper #content #newsWrapper .news { padding: 20px; }
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#newsWrapper .news p { font-size: 16px; margin-bottom: 20px; } #wrapper #content
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#faqWrapper .blocWrapper .bloc .bluecornerlink a { color: #fff; } #wrapper #content
#faqWrapper.detail { margin-bottom: 40px; } #wrapper #content #faqWrapper.detail li {
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#content #faqWrapper.detail li .number { float: left; width: 30px; height: 30px; margin: 0 35px 15px
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#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;
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#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; }
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#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,
.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; }
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.redactor_box table td.w50 { width: 460px; padding-right: 20px; } #content.text table td.w50.right,
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none; border-top: 1px solid #c2c2c2; } hr.marged { margin: 40px 0; } .pagination { margin: 20px
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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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