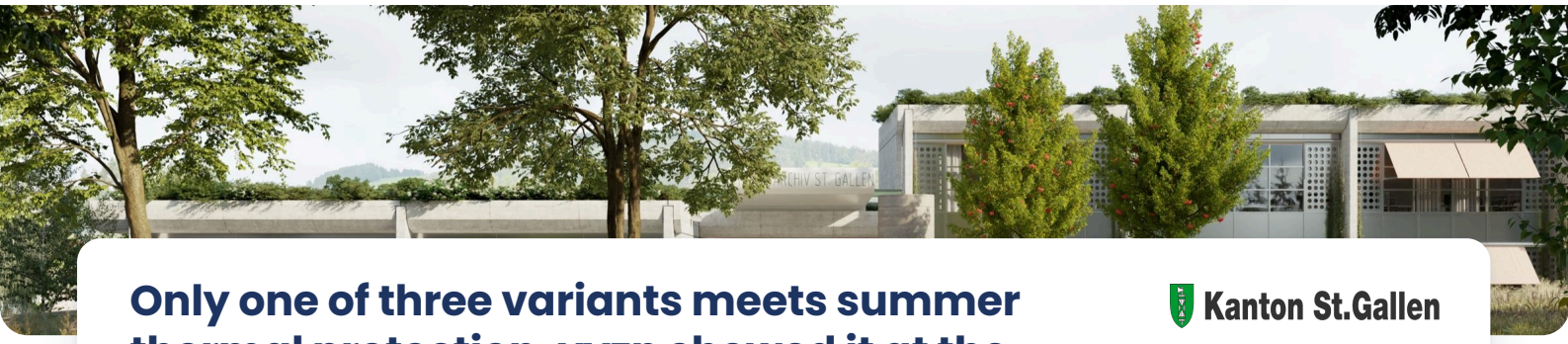


Only one of three variants meets summer thermal protection. vyzn showed it at the preliminary design stage.

Kanton St.Gallen

Staatsarchiv Waldau (State Archives) · Canton of St. Gallen · Conversion and extension · 7,860 m²

6
design stages evaluated

4
dimensions in one model

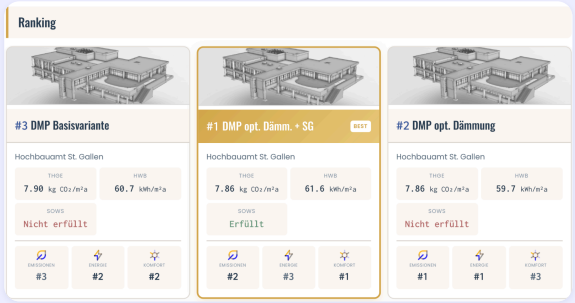
1 of 3
variants meets SIA 180

The starting point

The Canton of St. Gallen is converting and extending its State Archives. The target is SNBS Building Gold. At the preliminary design stage it was unclear whether the design would stay within the limits for greenhouse gas emissions and embodied energy, and whether the building would remain comfortable in summer.

The result

- **Every design stage assessed instantly:** vyzn automatically evaluated 6 digital building models, covering emissions, energy, comfort and component areas according to eBKP-H as the basis for costs.
- **The right variant found:** only the variant with improved insulation and solar control glass in the roof window meets summer thermal protection and performs best overall.
- **Ready to use for SNBS certification:** the results feed directly into the verification.
- **Risks spotted early:** the adjustments were made at the preliminary design stage, before changes become expensive.



vyzn variant ranking, preliminary design Staatsarchiv Waldau

ASSESSED IN

Cost · **Energy** · **CO_2** · **Comfort**

Compliant with SIA standards

Beyond the project

1 COMPETITION

Compare entries objectively

Competition entries can be checked against the same key figures before the jury decides.

2 BEFORE THE CONSTRUCTION DECISION

Secure the chosen variant

Every new design stage is automatically checked against the target values until the decision is made.

3 PORTFOLIO

All projects, one language

The canton's building projects become comparable using consistent key figures.

For public clients: Prove that your project meets its target values while the preliminary design is still open. And apply the same key figures to every further building project.



«Open collaboration between the client, the general planner and vyzn was the key - everyone involved actively supported innovative approaches.»

Ralph Hagen, Head of Department, Building Authority of the Canton of St. Gallen