

„Inbetween Landscapes“

Grimsel Territorium und Lauteraarhütte SAC 2393 m.ü.M.

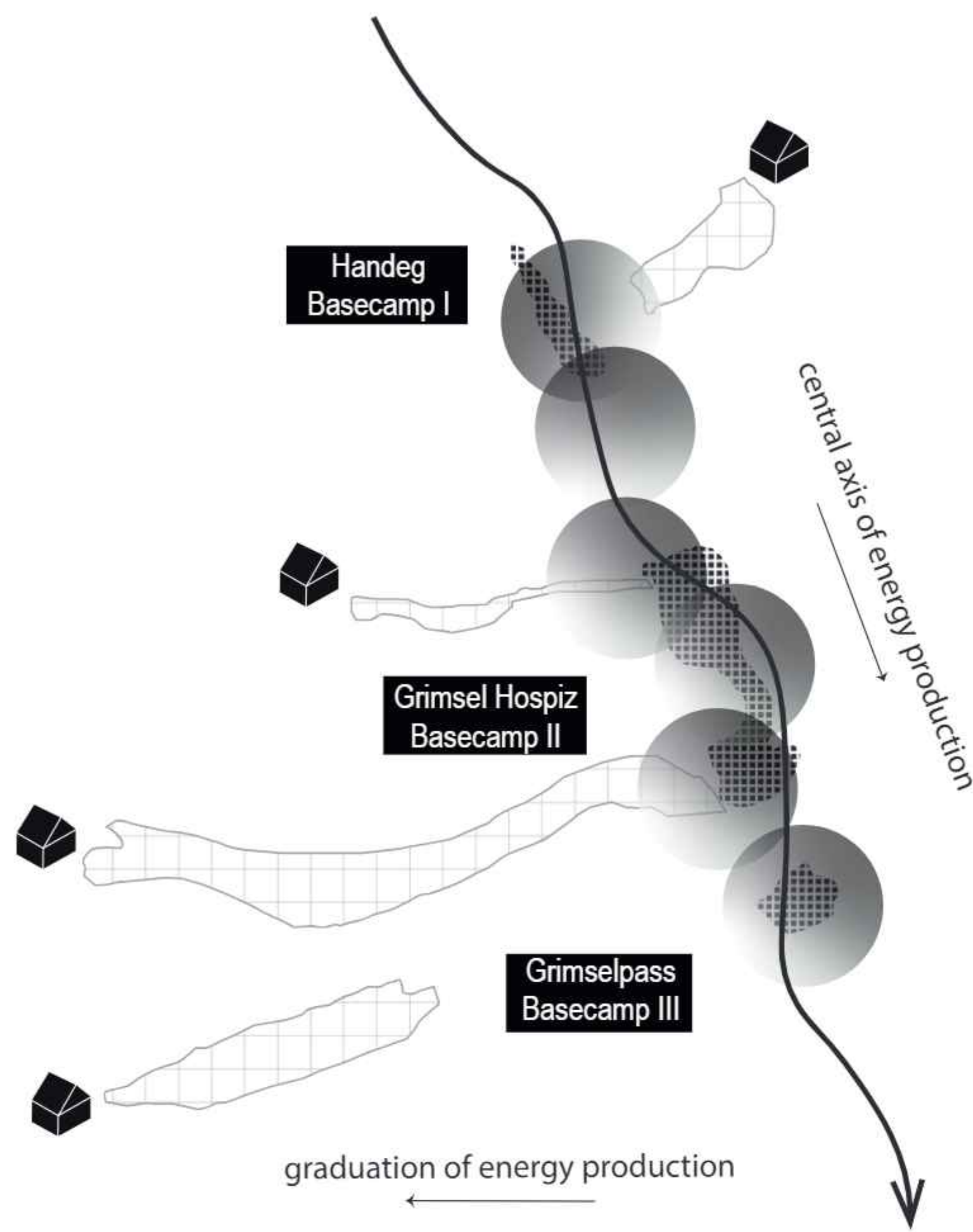
Landschaftstyp IV: *Energielandschaft* | Strategie IV: *Entwickeln*

"The energetic condition of the Grimselsee potentiates the implementation of new energy sources in the landscape sequences on the way to the Lauteraarhütte"

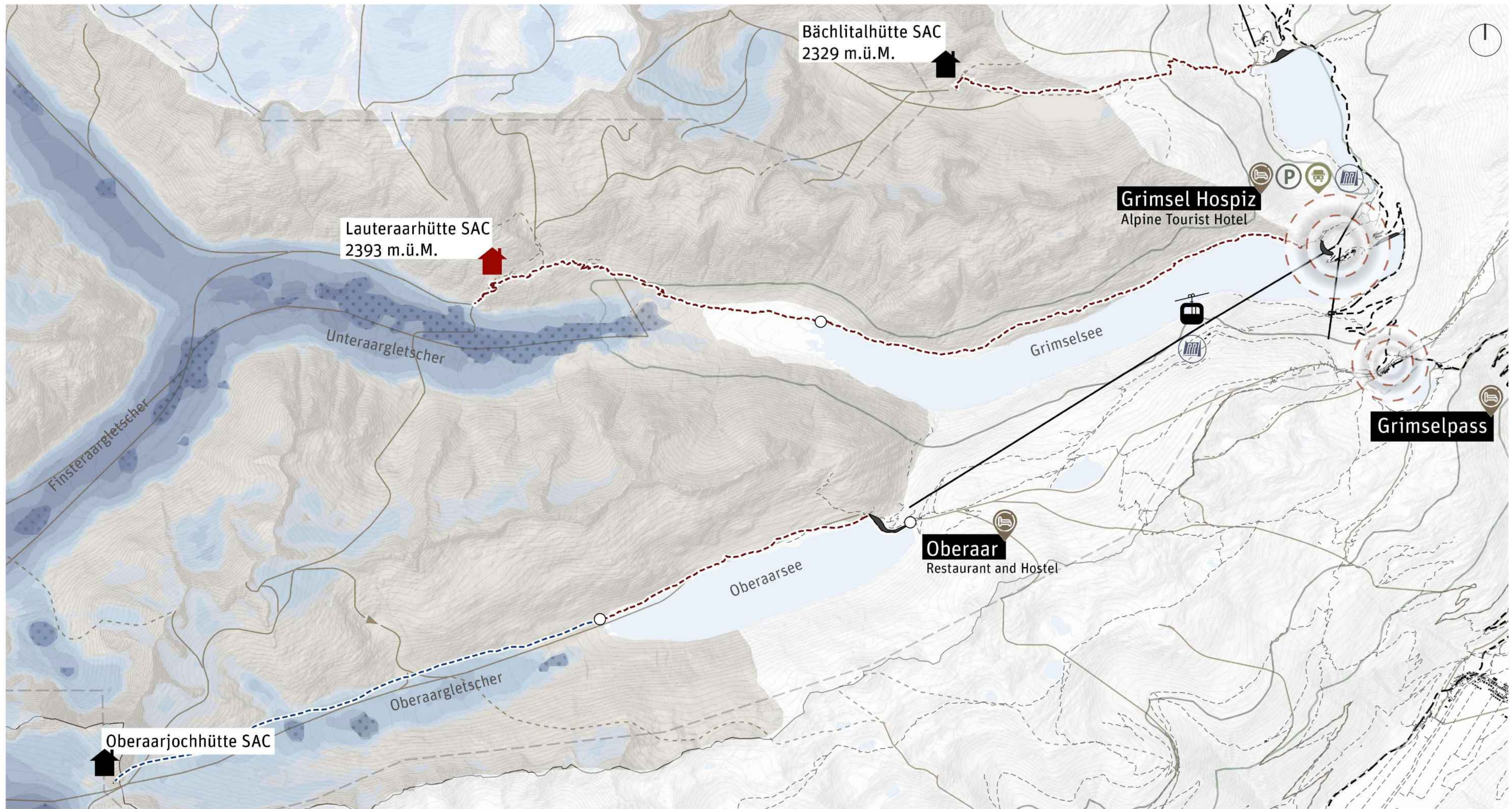
"Die energetische Beschaffenheit des Grimselsees begünstigt den Einsatz neuer Energiequellen in den Landschaftssequenzen auf dem Weg zur Lauteraarhütte".

The present work of Atelier Zukunftsbilder Alpen BFH FS23, has as its transformation strategy the development of the study area of the Grimselwelt, known as Switzerland's energy landscape. The region, which carries in its history the production of energy and the creation of dams along its regional stretch, with the primary role of KWO, connects the canton of Bern and Valais through an axis marked by large infrastructures and that today highlights an intensified tourist scene around the constructions and discoveries of the region.

The central axis of consolidated infrastructures that serve as the basis for the existing huts in the region, being Gerlmerhütte, Bächlitalhütte, Lauteraarhütte and Oberaarjochhütte, concentrates the activities in terms of energy production and tourist attractions. Along the paths to the huts, the natural landscapes communicate directly with the artificial and built landscape of this territory.



Die territoriale Auslegung

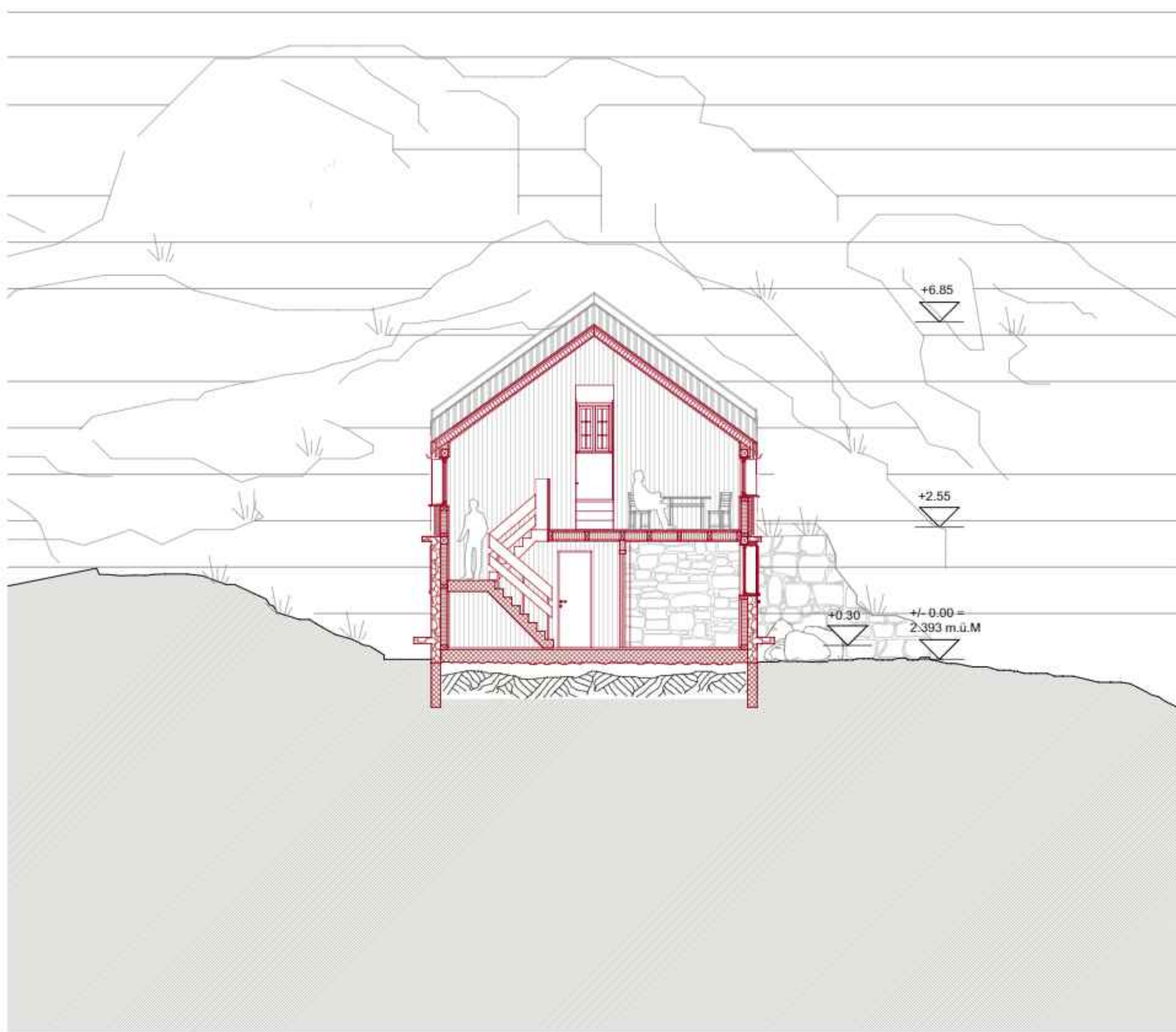


Territorium M 1:5000

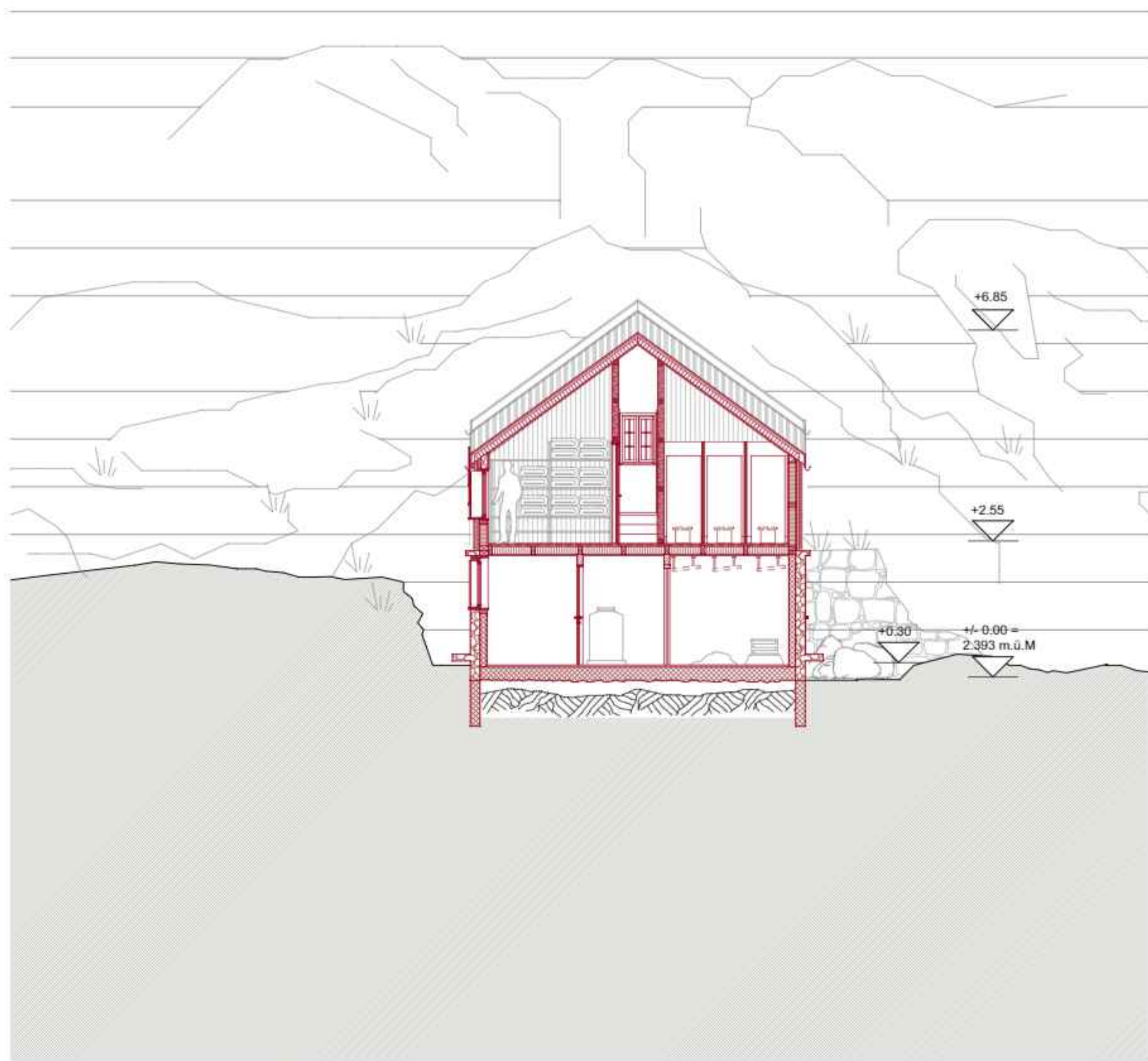




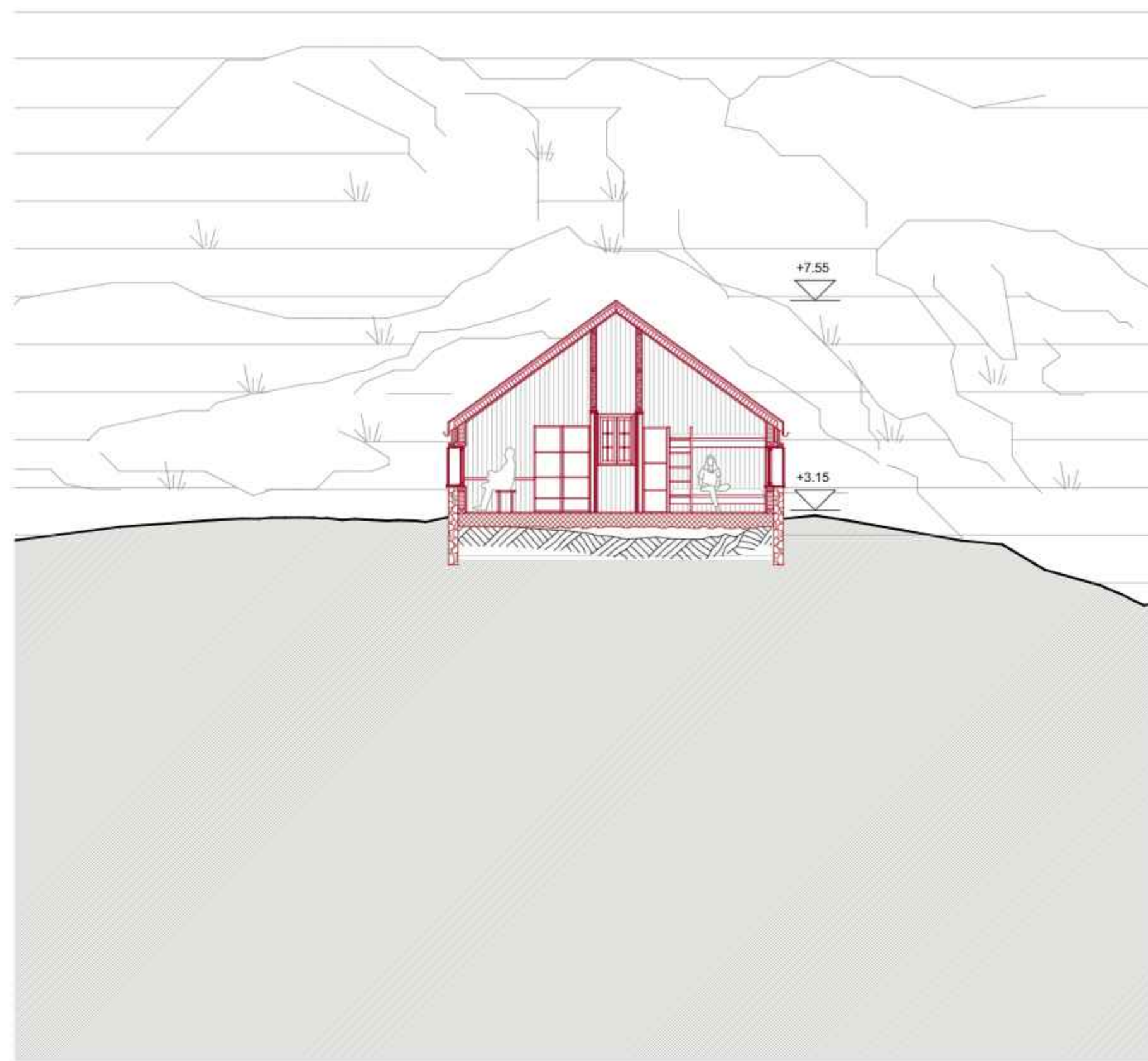
Schnitt B-B M 1:100



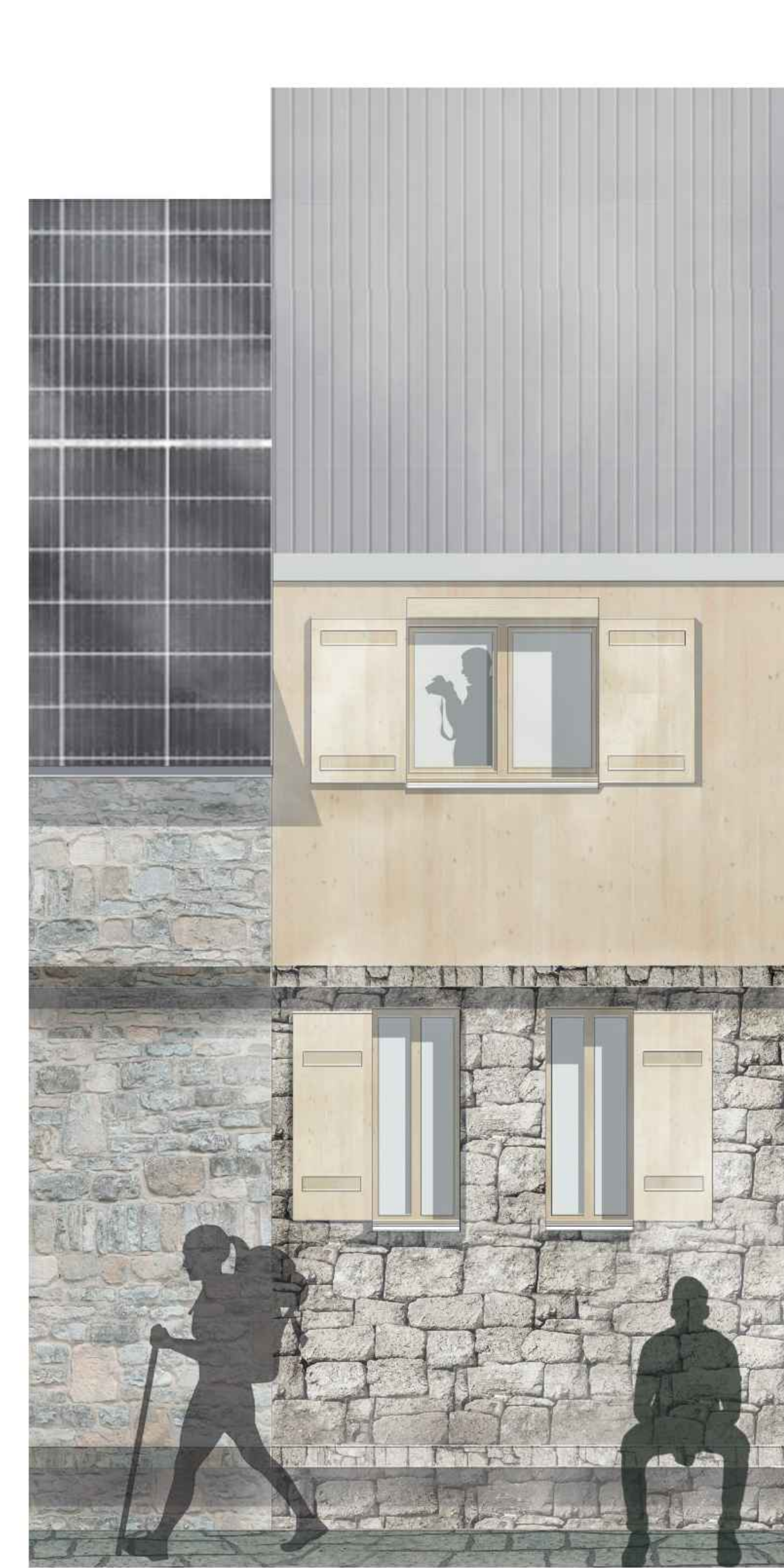
Schnitt C-C M 1:100



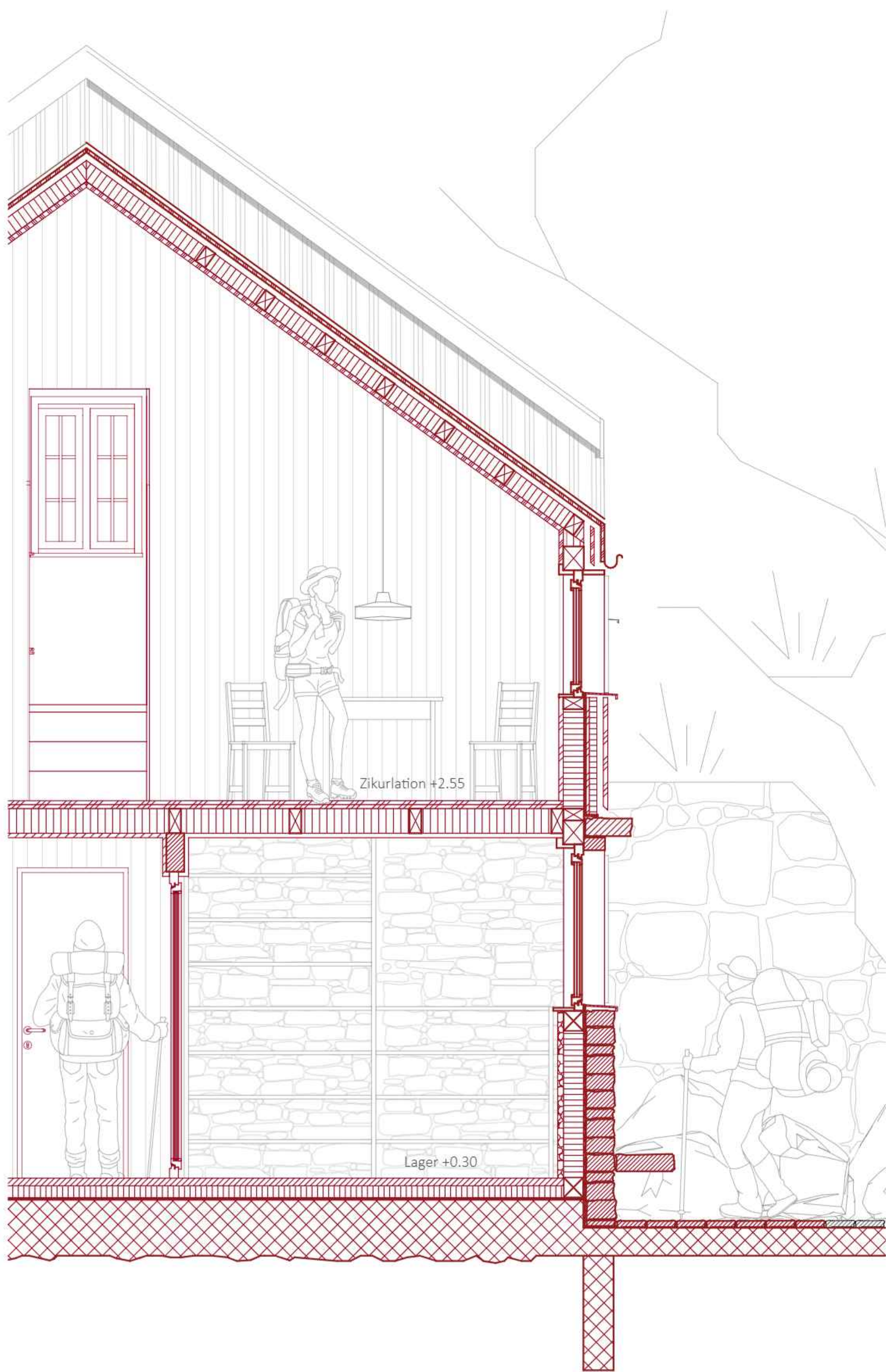
Schnitt D-D M 1:100



Schnitt E-E M 1:100



Fassadenschnitt M 1:20

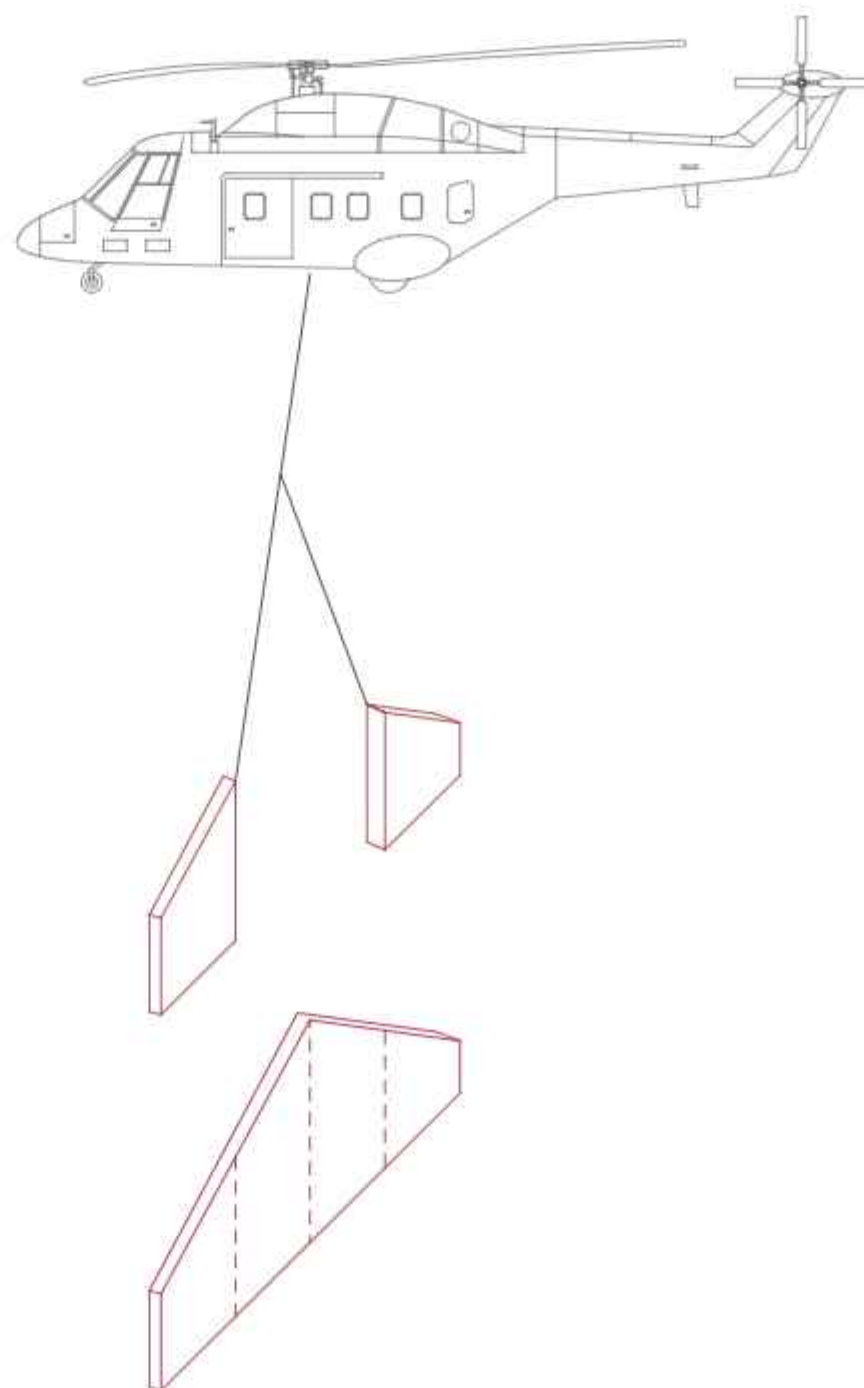


Konstruktion/Materialisierung/Bauökologie

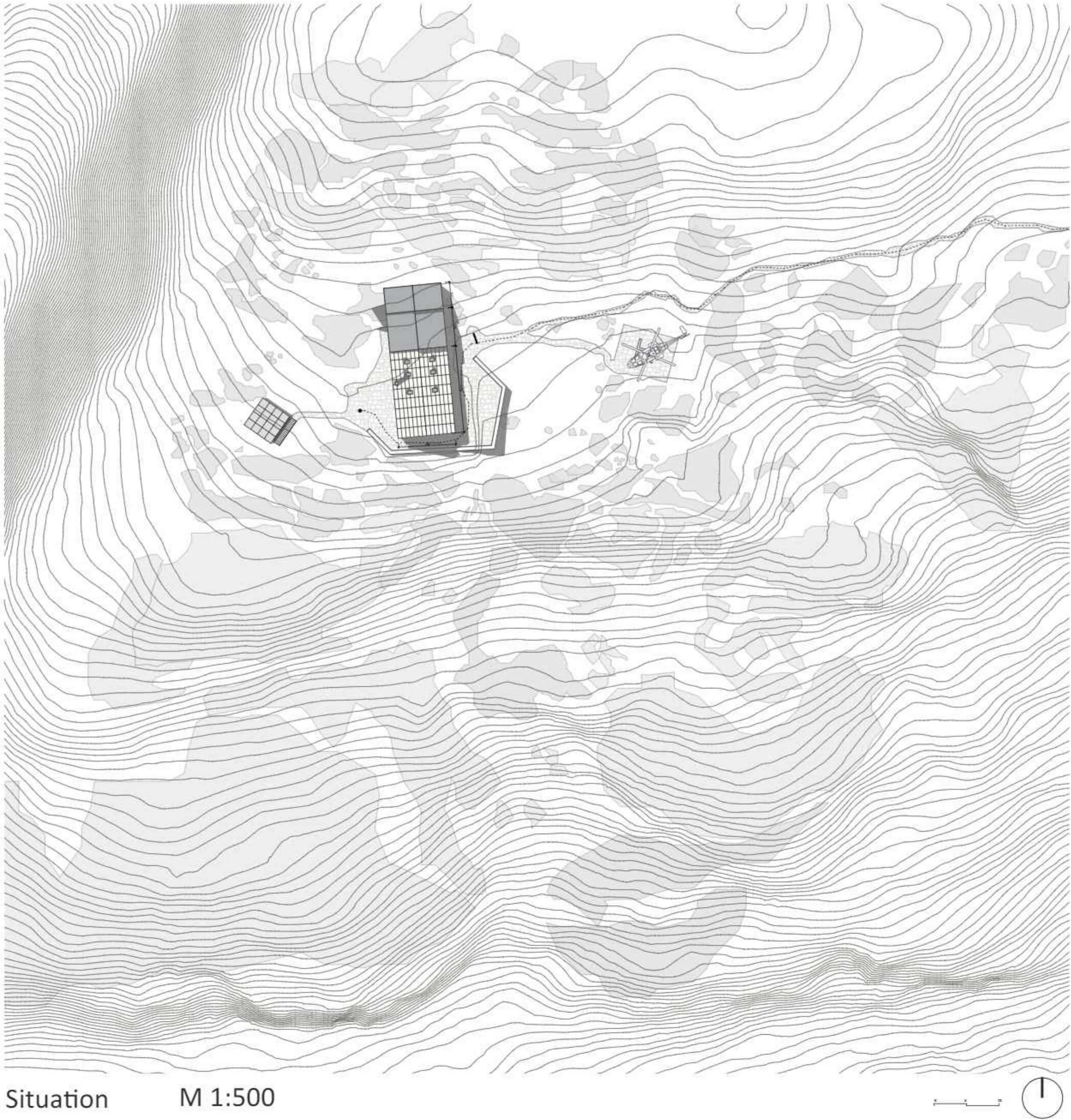
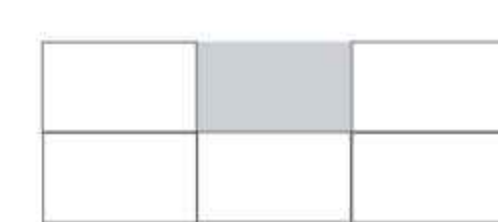
Respecting the traditional architecture of the Lauterharhütte, the "Backpack" extension follows a similar language as the existing one, continuing the stone foundation. As the project appropriates the topography, it conceptualizes the reuse of the stones found on site from the space formed for the new block as a finish for the façade on the first floor.

The project seeks, with the "backpack" structure, to reduce the transportation of materials and the practicality of the assembly. Therefore, an isolated support structure is proposed, in wood and prefabricated, that follows the modules created from the organization of the rooms.

Highlighting the upper blocks, we have the structure and closed in wood that follows up to the roof. The roof structure is made of Doppelstehfalzdach. According to the need and standards, in the part of punctual renovation within the existing hut, we have the implementation of insulation layers where necessary.



Visualisierung des Moduls "Filter", Übergangsbereich zwischen bestehendem und neuem Objekt
Visualization of the "Filter" module, transitional space between existing and new object



Situation

M 1:500



Die Hütte



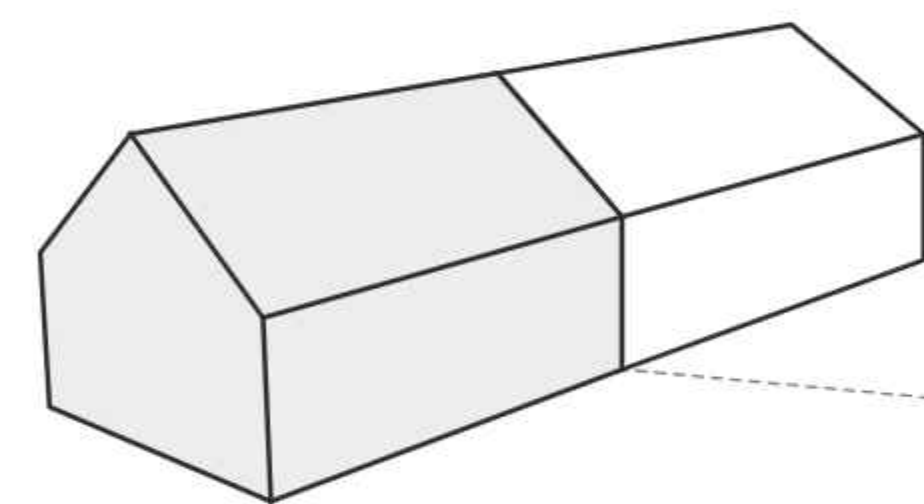
Die Topographie



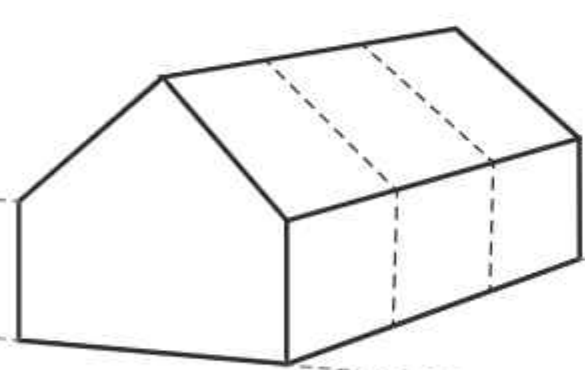
Die Silhouette der Alpen



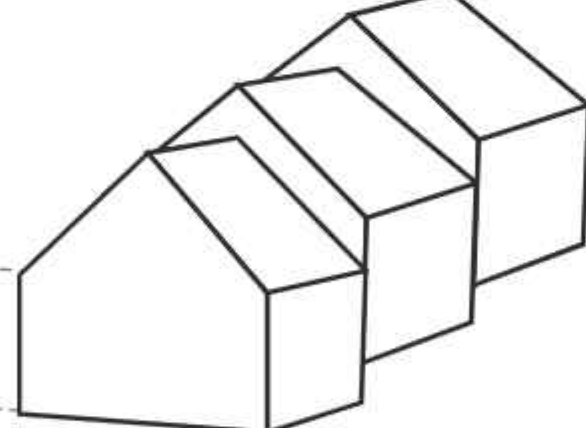
Die Kreuzung



Das Bestehende
und der Rucksack



Der Rucksack in
3 Teilen



Die schwindelerregende

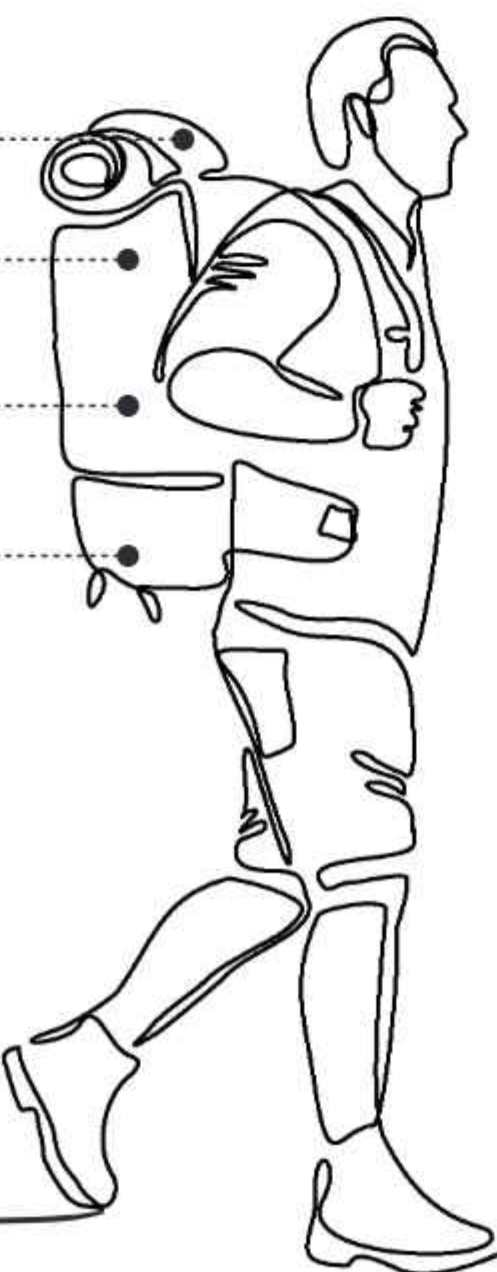
Erforderliche Räume

The spaces required for the Lauteraarhütte to comply with environmental, hygiene, safety and energy self-sufficiency standards are related in the project to the organization of a hiking backpack.

These spaces are organized in the extension that takes place on the northern façade of the project, towards the mountain, in such a way as to be placed as a compact and functional backpack that equips the hut with a new staircase, storage and technical facilities, and a private area for the guards.

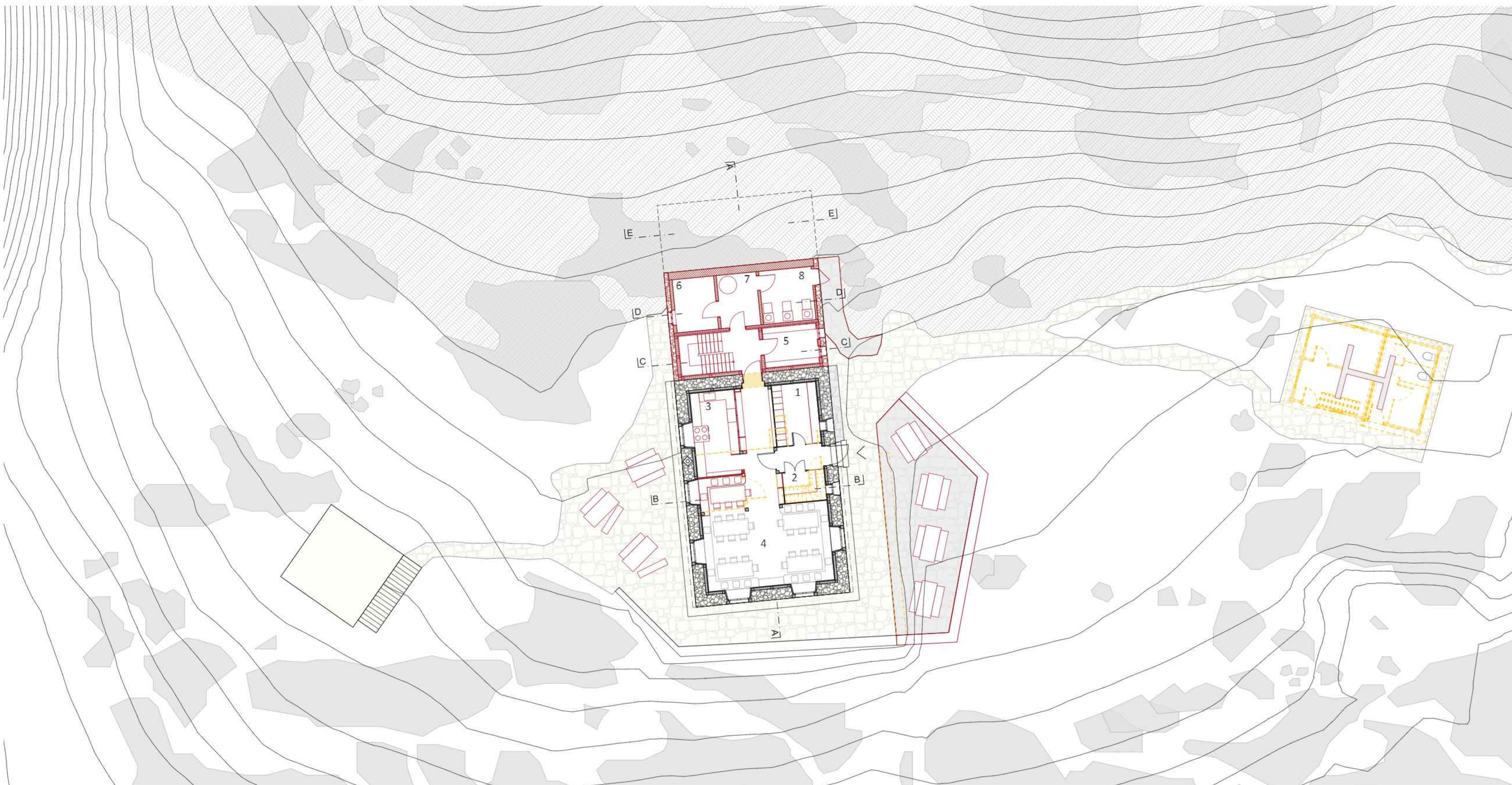
A direct connection can be made between the spaces with easy access and private access to the different layers of objects that are carried inside a backpack.

-  Technical areas and Stockage
-  New Staircase
-  Toilets (Guest and Personnel)
-  Hüttenwart and Personalraum

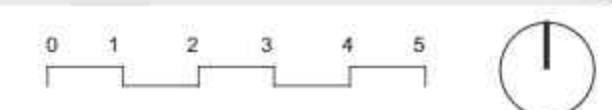


Perspektive der Hütte im Jahr 2050 mit dem Grimselsee im Hintergrund

Perspective of the hut in 2050 with the Grimselsee in the background



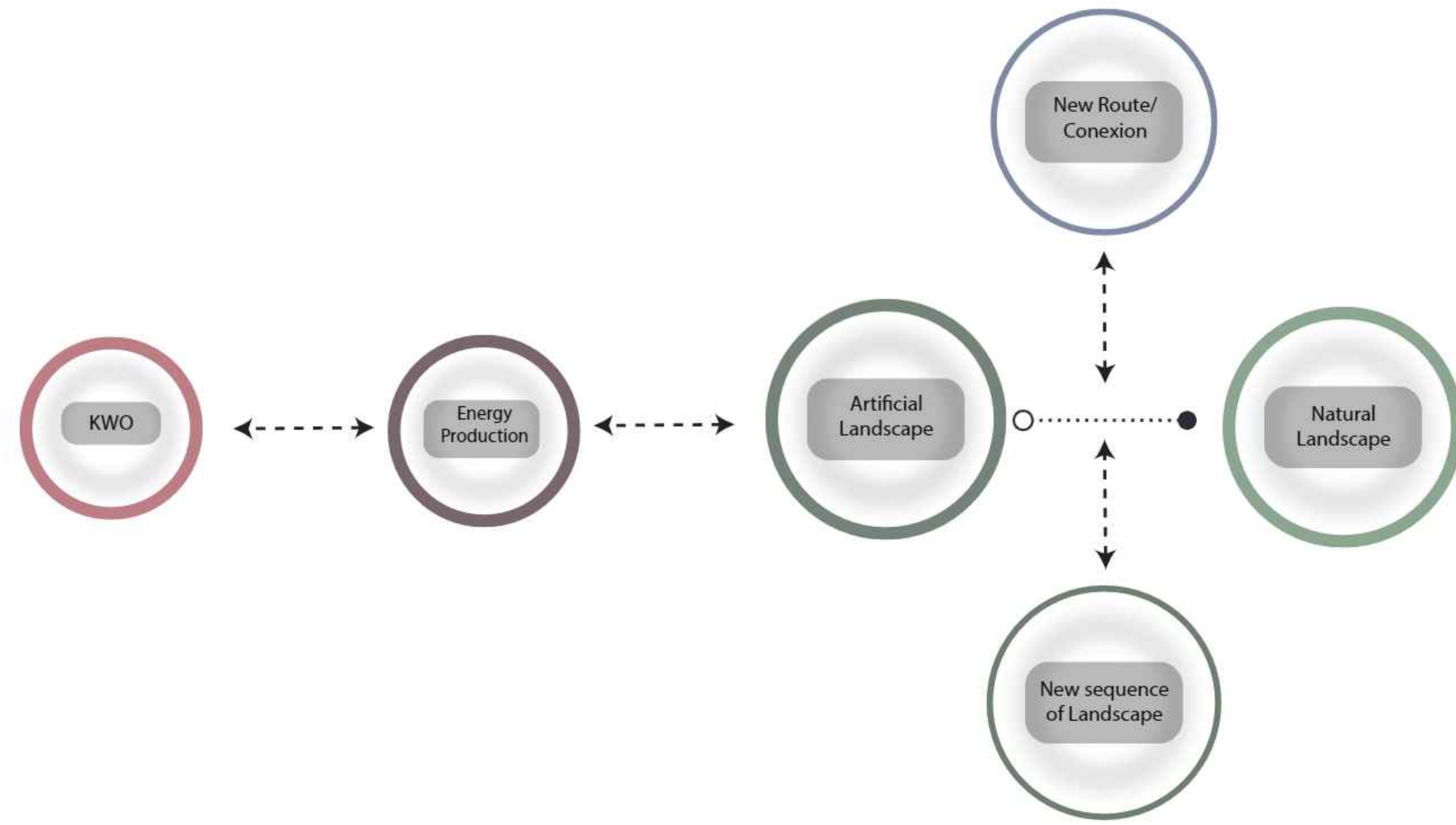
Erdgeschoss M 1:100



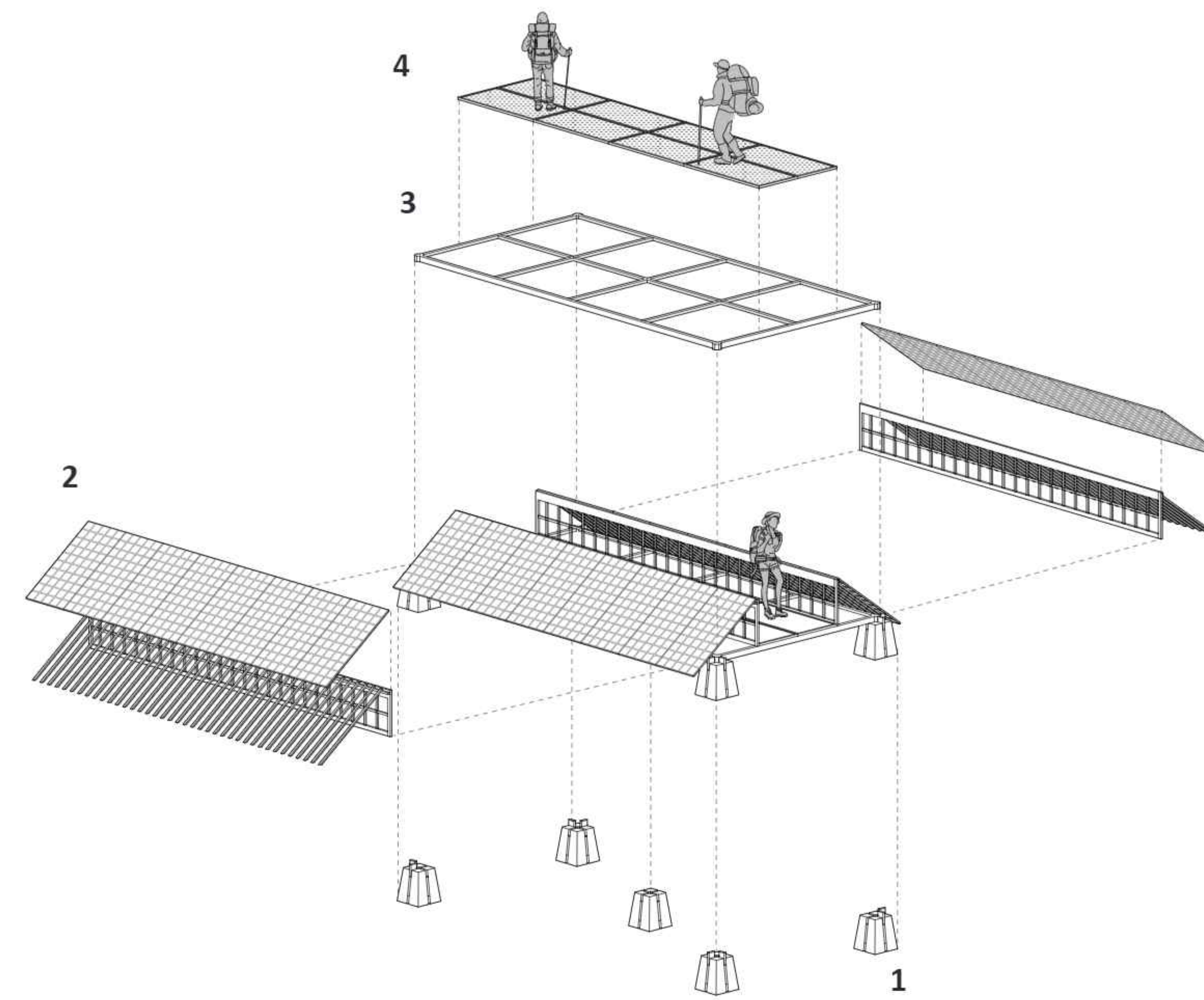
"On the way to the Lauteraarhütte, we leave the built landscape behind

....connect to new routes and experience energy production....

until we get to the true essence of the region, its natural landscape."



Konzeptvorschlag für die Infrastruktur



1. Floating body in Polyethylene
2. Power PV panels
3. Structure Marine Grade Aluminium
4. Walkable platforms in sheet metal

Vision 2050:

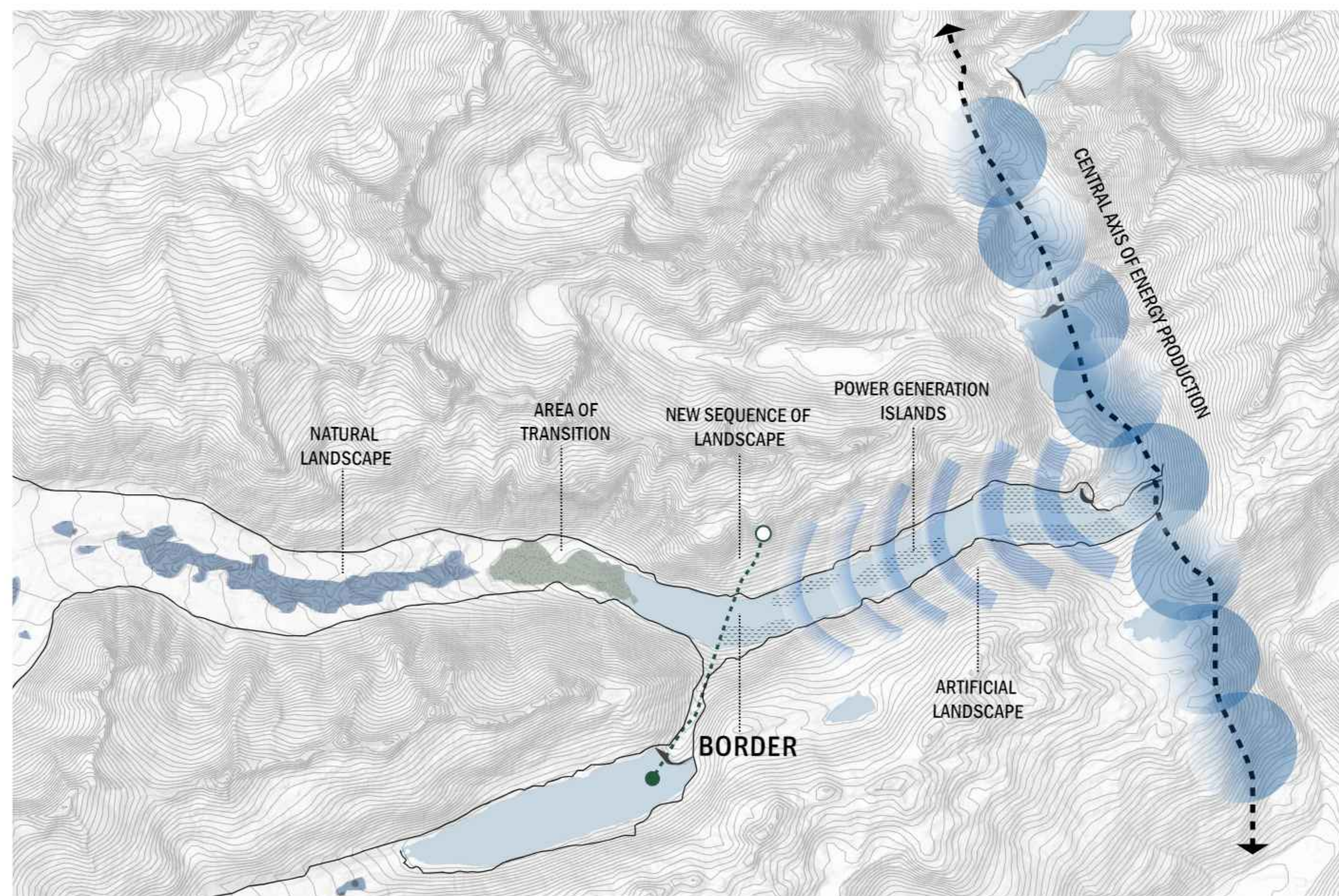
Recognizing the energy potential of the region, in harmony with the landscape, a KWO action is proposed for energy production in the artificial lake for the territorial infrastructure. The connection between the Grimsensee and the Oberaarsee is made by floating platforms with the presence of PVs that ensure energy production. The profile of this infrastructure constitutes a new local attraction, increasing the number of visitors to the site exponentially over the years.

In the extension of the Grimsensee cut-out and the Lauteraahütte SAC hut, the motivation for the infrastructure proposal comes from the understanding of the energy potential of the artificial lakes and the different landscape sequences existing on the route to the hut, on which this work is also based.

The vision 2050 for the territory is associated with a proposal by KWO for the extension of energy production on the Grimsensee, taking into account its size and potential, as well as a new route connection between the Lauteraarhütte and Oberaargochhütten huts.

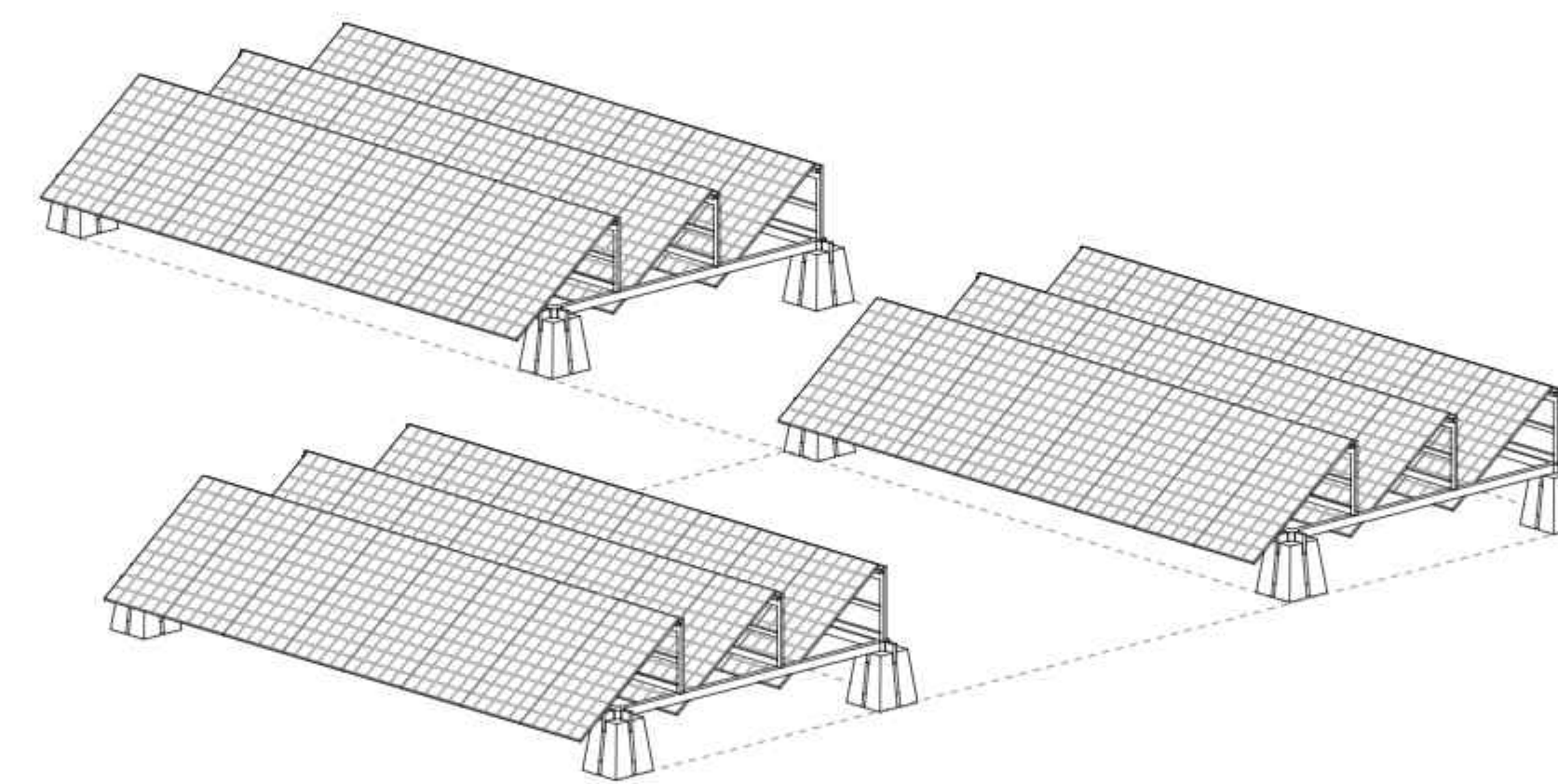
The new link, made via a floating platform on the lake, is also based on energy production on the lake itself. This could be a new tourist attraction, to experience the energy of the site and propose new conscious practices about this activity and action in the context of the landscape.

Also in the 2050 scenario, the platform marks the end of energy production, it is the limit and the boundary between the built (artificial) landscape and the natural landscape that will develop thereafter, in communication with the new natural lakes that will be created from the movement of the Unteraargletscher Glacier. In addition to being another pedestrian route, it also constitutes a new landscape sequence.

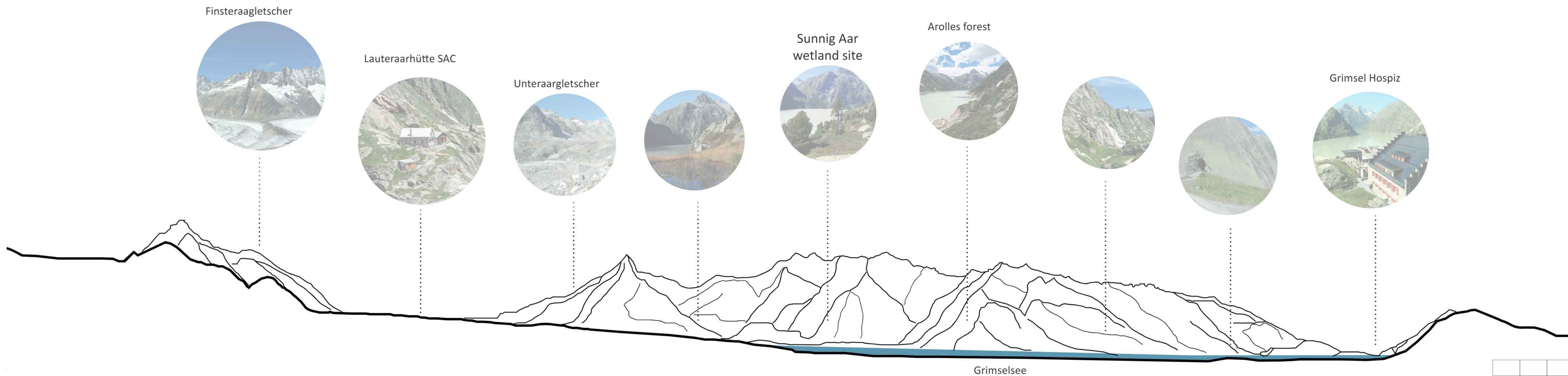


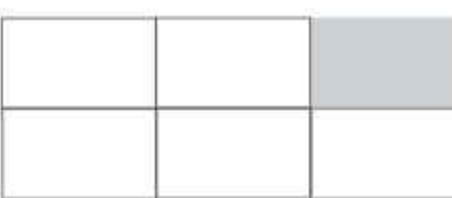
Konzeptvorschlag für die Energieproduktion

„Experience Energy”, float platforms

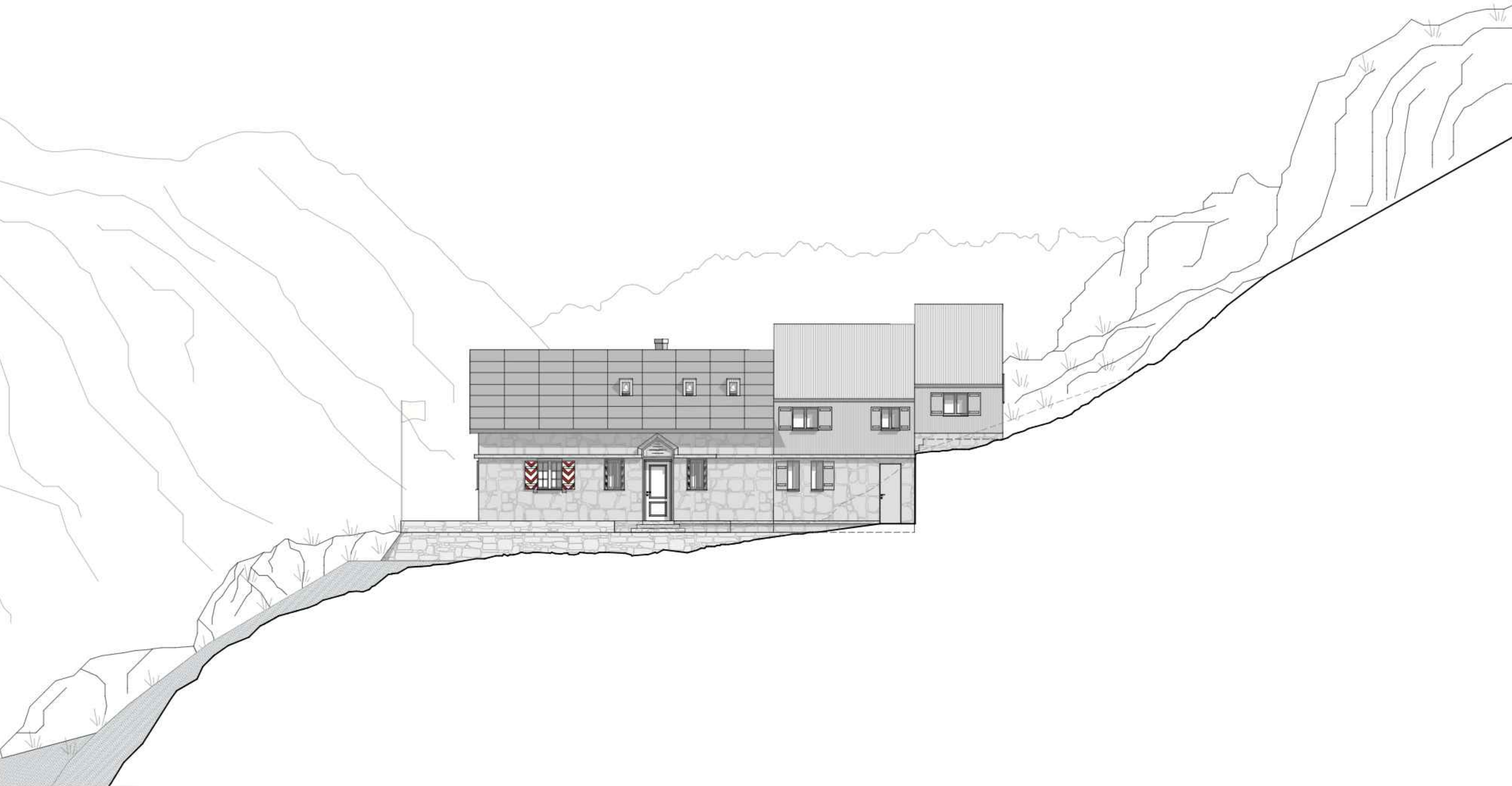


„Produces Energy”, float platforms

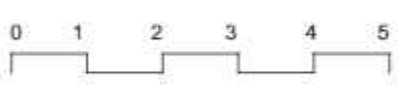




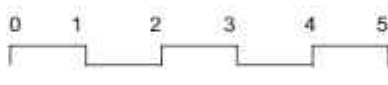
"An extension, which acts as a kind of backpack, compact and functional, is essential and necessary for updating the Lauteraarhütte while respecting its original architecture."
" Eine Erweiterung, die wie eine Art Rucksack wirkt, kompakt und funktional ist, ist für die Modernisierung der Lauteraarhütte unter Wahrung ihrer ursprünglichen Architektur unerlässlich und notwendig".



Ostfassade M 1:100



Südfassade M 1:100



Innenraum/Organisation

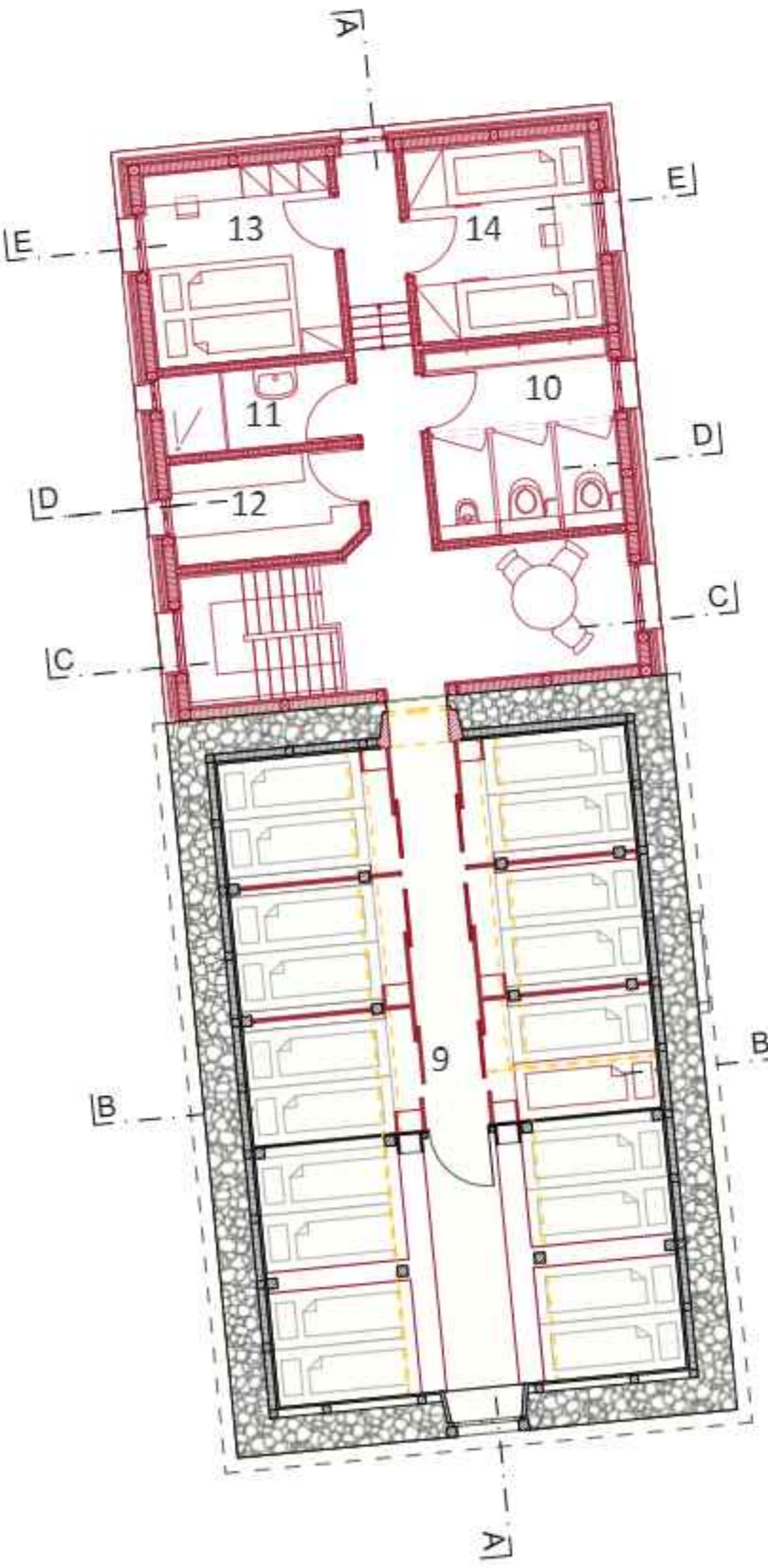
Considering the Lauteraarhütte as a traditional architecture, built in 1931, the project aims to respect and highlight such essence in order to make small interferences that improve the spatial quality but do not dominate the new over the existing.

From the backpack idea for the hut, understanding its nonconformity according to the current building, energy and sustainability norms, the necessary spaces are proposed for the best adaptation to the norms, in this compact and functional block.

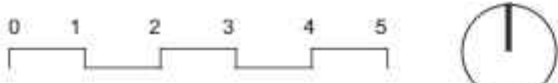
In the existing hut, an increase in the living room is proposed, with more seats, also understanding that the Lauteraarhütte is a connection point between routes. In addition, the existing kitchen, which does not have an adequate size to house its guests, is modified. Another modification is the demolition of the existing staircase.

In the extension, a compact technical block, housing the laundry, energy technical room, and toilets, as well as larger storage spaces. In the module called Filter, the new staircase leads to the first floor, where the bedrooms and toilets are, for guests and the guardian.

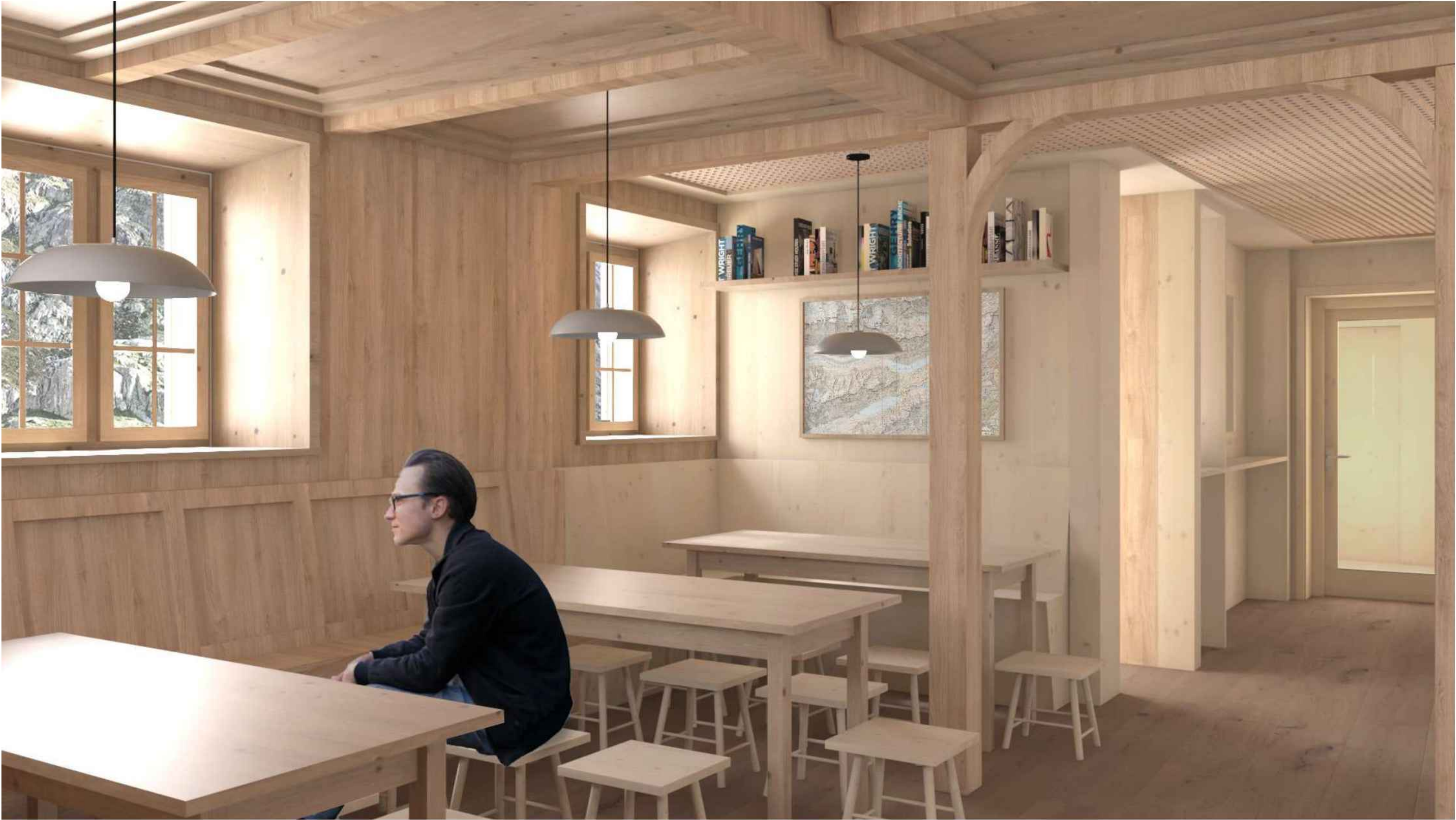
The project creates new rooms, which provide more privacy, and for this, superior openings are needed for the best light quality of the environment. In the transition space between the existing and the new, an environment of appreciation is created, for the view and the community. Next are the toilets, and finally, the private space for the guardian and employees.



1. Schuhraum
2. Skiraum
3. Küche
4. Aufenthaltstraum
5. Lager
6. Wäche
7. Energie Technik
8. Sanitär Technik
9. Schlafraum
10. Sanitär Gäste
11. Sanitär Personal
12. Lager
13. Hüttenwart
14. Personalraum

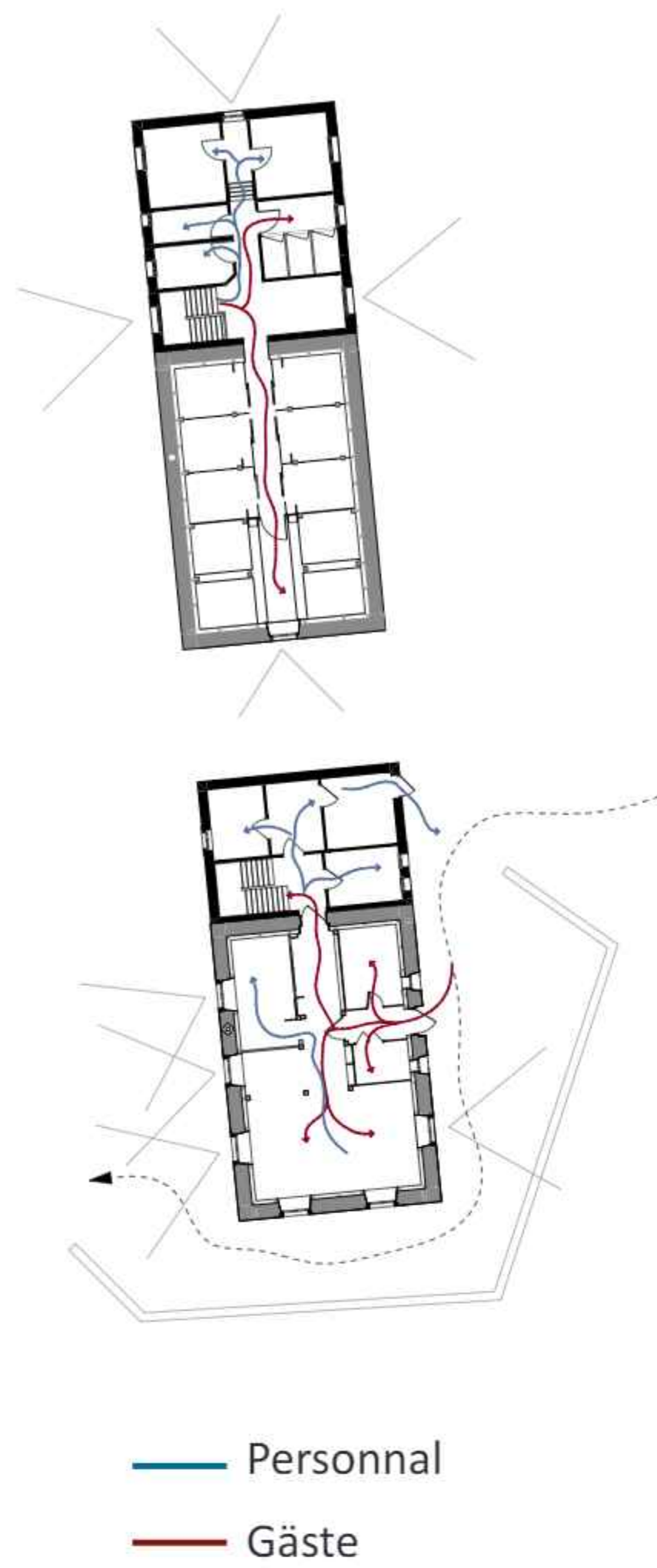


Obergeschoss M 1:100

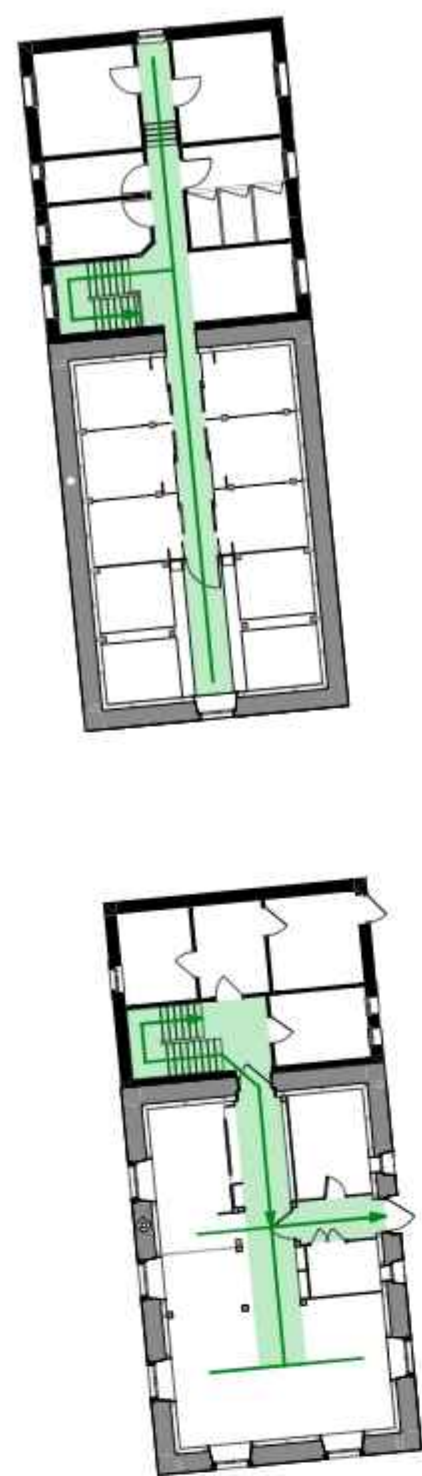


Visualisierung des neuen Wohnzimmers, mit einer besseren räumlichen Qualität und der Hervorhebung der Fortsetzung der lokalen Architektur.
Visualization of the new living room, with a better spatial quality and highlighting the continuation of the local architecture.

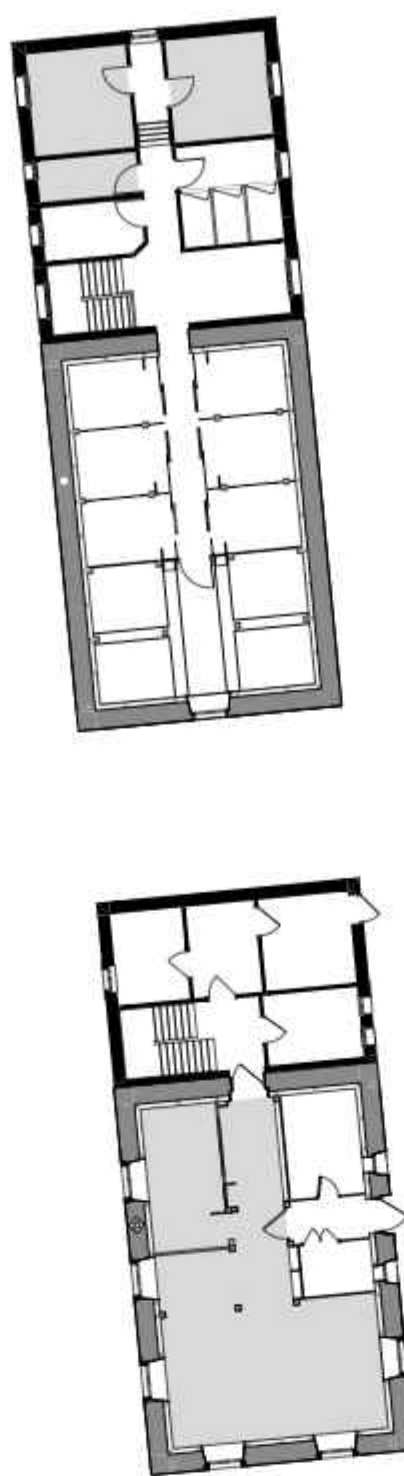
Zugang und Ausblick



Brandschutzkonzept



Beheizte Räume



Schemakonzept M 1:200

4 Configuration of the spaces for the hut keeper and employees, on the top floor, establishing a hierarchy of private accesses and ensuring the highest privacy and spatial quality.

Anordnung der Räume für den Hüttenwart und die Mitarbeiter im obersten Stockwerk, um eine Hierarchie der privaten Zugänge zu schaffen und ein Höchstmaß an Privatsphäre und räumlicher Qualität zu gewährleisten.

4 New staircase and new technical spaces and storages, according to standards.

Neue vertikale Zirkulation und neue technische Räume und Ablagerungen, die den Normen entsprechen.

5 Implementation of photovoltaic panels on the roof, ensuring the cottage's energy autonomy. New window openings that ensure better lighting on the upper floor, where the bedrooms are located.

Installation von Photovoltaik-Paneeelen auf dem Dach, um die Energieautonomie des Hauses zu gewährleisten. Neue Fensteröffnungen, die für eine bessere Beleuchtung im Obergeschoss sorgen, wo sich die Schlafzimmer befinden.

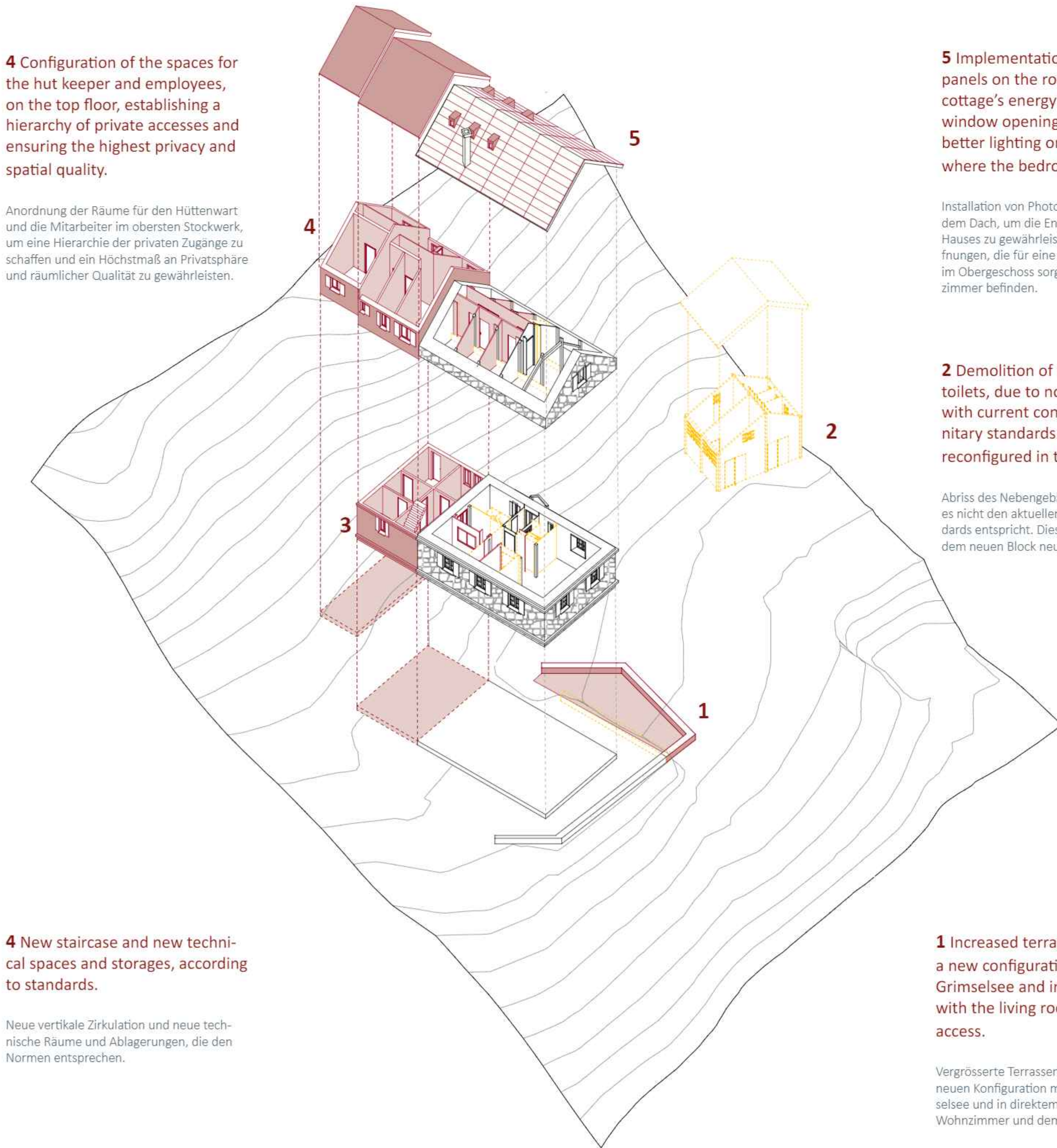
2 Demolition of the annex with toilets, due to non-compliance with current construction and sanitary standards. Such spaces are reconfigured in the new block.

Abriss des Nebengebäudes mit Toiletten, da es nicht den aktuellen Bau- und Sanitärstandards entspricht. Diese Räume werden in dem neuen Block neu gestaltet.

1 Increased terrace area, with a new configuration facing the Grimselsee and in direct contact with the living room and cabin access.

Vergrößerte Terrassenfläche, mit einer neuen Konfiguration mit Blick auf den Grimselsee und in direktem Kontakt mit dem Wohnzimmer und dem Zugang zur Hütte.

Axonometrie für die Idee der Räume und des Ganzen M 1:200



Schnitt A-A M 1:100



Perspektive der Hütte im Jahr 2050 mit dem Finsteraargletscher im Hintergrund
Perspective of the hut in 2050 with the Finsteraargletscher in the background