



Shougang - Feel Your Future

INTRODUCTION

Shougang -Feel Your Future (PyF) is a comprehensive design proposal for the transformation of one of the four former blast furnaces in the Shougang Park located in the west of Beijing, combining the revitalization of a site with outstanding historic value whilst carefully embracing its historical heritage, focusing on the current needs of the people and guiding Shougang into a green and progressive future.

Besides representing a state-of-the-art environmentally friendly landmark, both its inside and outside space will function as a high-performing interactive exhibition centre, making thorough use

of advanced technological possibilities whilst excitingly playing with the senses of the visitors. What else could impress more than a real perception of how the future will be like?

This being said, Shougang PyF is not only a site with a stunning entertainment character, but a place of profound education and conceptual depth, a site which is meant to make visitors realize, move, re-consider, even shock! All these elements will be cautiously connected and expressed through the language of fine arts, thus making the visitor of the exhibition centre enter a poetic, multi-layered and remarkable cosmos: an unforgettable experience which people can take home and share with their beloved ones.

SHOUGANG PARK: A DIALOGUE BETWEEN TIME AND SPACE

Shougang Park – 100 years ago a prideful symbol of industrial and economic progressiveness, backbone of the Chinese steel production and employer for tens of thousands of workers – has long been realized to be one of the main polluters of the area, which led to the gradual shutdown of the steel industry in the park beginning in 2005.

“首钢——感受你的未来”是一项综合设计计划。方案将场地复兴与其突出的历史价值相结合，精心处理其历史遗产。重点关注人类的当下需求，引领首钢迈向绿色、进取的未来。该方案将成为最先进的环境友好地标建筑，其内外空间则通过先进的技术互为呼应，引发人们的不同感受。相比对未来的真知灼见，还有什么能更令人印象深刻呢？“首钢——感受你的未来”不仅提供叹为观止的娱乐体验，更是富含教育意义和概念深度的场所，旨在使参观者理解、感动、重新思考，乃至震撼内心。所有元素都将围绕艺术语言谨慎仔细地联系起来，为展览中心创造一个神圣的、多层次的非凡空间，参观者逐步深入其中获得难忘体验，并带走与融入分享。



„This place must represent the direction China is taking“

Liu Hua - assistant general manager, Shougang



Figure 2: Model of Shougang site, OCTH Design

INTEGRATION OF THE SURROUNDING AREA

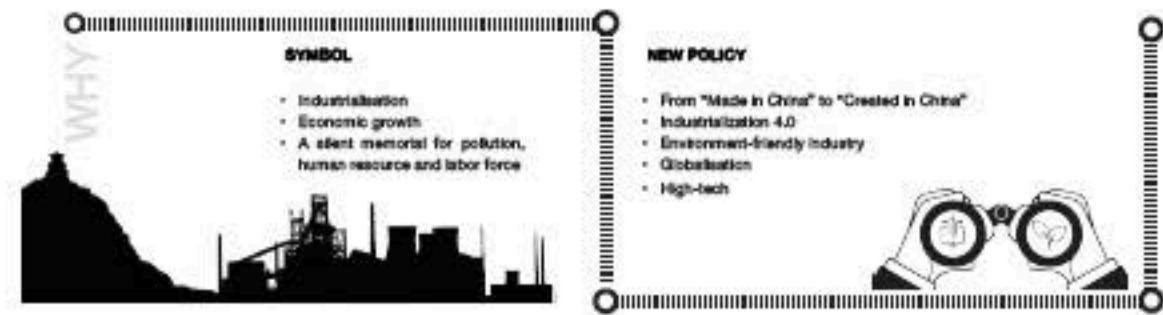


Figure 3: Integration of the surrounding area around Blast Furnace No. 1

PERSPECTIVE ON BLAST FURNACE NO. 1



Figure 4: Perspective view on Blast Furnace No. 1 with internal and grey water treatment landscape

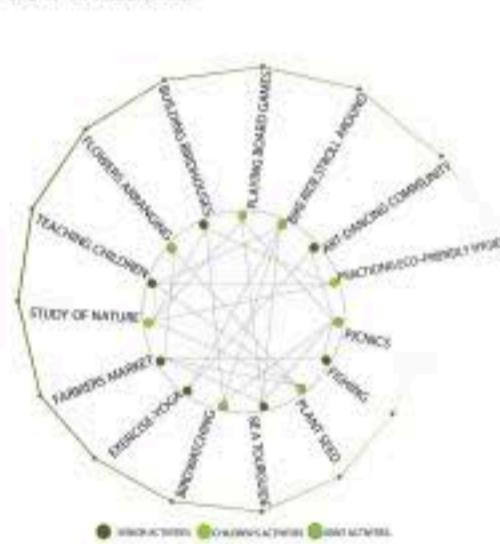


SHOUGANG SITE PLAN



Figure 5: Site plan of Shougang site area, 1:10,000

USE OF OUTSIDE SPACE



ACTIVITIES GROUP FESTIVAL	SPRING			SUMMER			AUTUMN			WINTER		
	Jan	Feb	Mar	April	May	Jun	July	Aug	Sep	Oct	Nov	Dec
Festival												
Spring festival												
Education fairs												
Flower festival												
Concerts												
Firework display												
Winter festival												
Summer holidays												

Figure 8: Shougang PyF site: Calendar for construction and facilities

ACTIVITIES GROUP PHYSICAL ACTIVITIES	SPRING			SUMMER			AUTUMN			WINTER		
	Jan	Feb	Mar	April	May	Jun	July	Aug	Sep	Oct	Nov	Dec
Workshop												
Study - Wetland ecosystem												
Cycling, strolling around												
Visit the bird conservation area												
Camping - Picnic												
Exercise - Yoga - Dancing												
Plant seeds activities												
Team building												

Figure 9: Shougang PyF as a place for physical activities throughout the year

WHAT

- Heritage preservation
- Multi-functional
- Technology
- Innovation

SHOUGANG AMBITIONS

- Digital media
- International
- Micro tourism
- Environmental quality



SUSTAINABILITY AS A FOCUS

- Need for action
- Solving mistakes of the past
- Contributing to the future
- Resilient scenario



EDUCATION:

- Raising awareness about environmental issues



- Entertainment:
 - Attracting people
 - Inviting them to interact

HOW

SPREADING KNOWLEDGE

- Creating a tangible, touching, motivating experience
- Workshops
- Virtual/Augmented Reality
- Digital playgrounds
- Contemporary art



SHOUGANG FEEL YOUR FUTURE: A DIALOGUE BETWEEN TIME AND SPACE

Analog to the idea of the dialogue between time and space in Shougang Park, Blast Furnace No. I takes the idea of this dialogue further and adds more dimensions to it: Located in the impressive colossus made from steel and concrete, a memorable structure always reminding the guest of the past, the exhibition centre houses two closely connected expositions which allow the visitor to perceive, feel and interact with different climates (and futures) of our earth.

On the first floor, the visitor will be taken through the

climate zones and how they will change in a scenario in which humanity misses to take care about the earth, proceeding with "business-as-usual", which will be a both shocking and disturbing experience that will open the visitors' eyes and stick in their minds.

After undertaking a symbolic time travel to the next floor, the guests walk through the same climate zones, but this time perceive how they feel like in a scenario in which humanity took all the necessary steps to protect the environment and greatly limit the damage done to nature. On this floor, the audience is diving into a soft, gentle and plodding natural beauty, thus

heavily contrasting the setting visited before. The concept of the exhibition centre is both simple and effective: Just by reading and being told how our world will change, only few people will start to think about changing their lifestyle.

However, if people can actually perceive the change that they are causing, the impact on their own decisions will be much bigger. In the exposition centre, not only the high contrast between both possible futures is shown, but also will they be taught all the necessary steps that are required to reach the beautiful future in the form of interactive, fun and enlightening workshops they can participate in.

THE CONCEPT

Without any doubt, reaching a bright and green future can only be achieved through combining efforts, which explains the high importance of education and raising awareness about environmental issues in the first place. Nonetheless, education alone will not lead to the desired result: Creating a dry, monotonous museum in which people are taught what they believe they already know will miss the point of making people start to move. What is needed in this case is exciting and touching entertainment, facilitating emotions, showing something never shown before. By combining these two functions to a so called "edutainment", both an

in-depth concept that aims to serve a meaningful purpose can be combined with a site that attracts, stuns and interacts with people, is so enjoyable that it makes them share their experiences on all kinds of social media, which in return attracts even more people and therefore also represents a well-functioning business model.

The comprehensive transformation of the blast furnace towards a elusive, tangible environmental future hub goes well in line with the Chinese government's general goals on widely increasing the share of renewable energies while decreasing the nation's carbon footprint. Additionally, it will be of great symbolic character in the agenda from

"Made in China" to "Created in China" and can be the possibility for China to take the lead in tackling environmental affairs.

Due to its location, the history of the site and the future ambitions of both Shougang Park and the Chinese government, as well as its role in the Sino-German Innovation Partnership and the involvement of the centennial Bauhaus, Blast Furnace No. I is predetermined to be an important driver in promoting the beginning of a new, clean and future generation-proof era.

Climate change is said to be the biggest challenge humanity was ever facing. Let's tackle it – together!

ROOF CONSTRUCTION

Solar panels

New structure

Glass

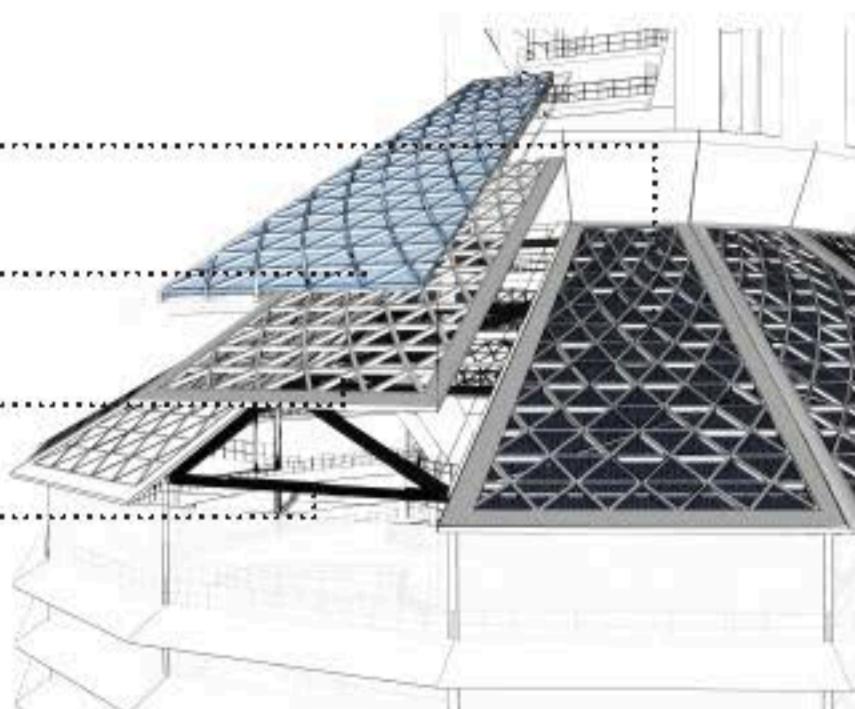
New structure

Frame

New structure

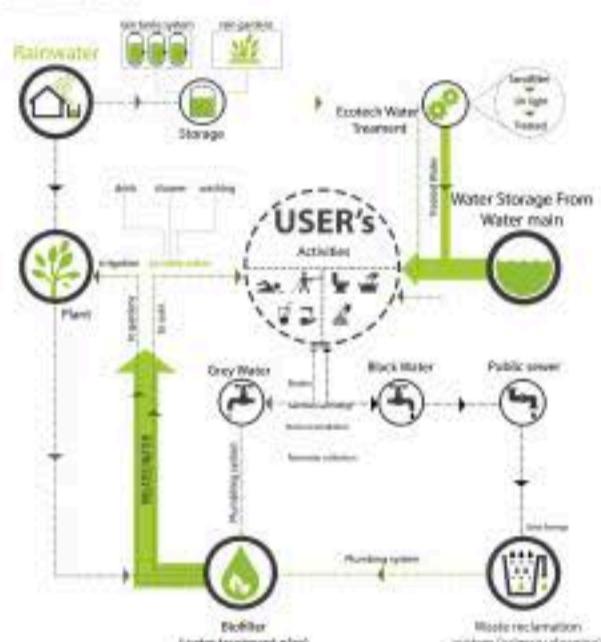
Steel beams

Old structure

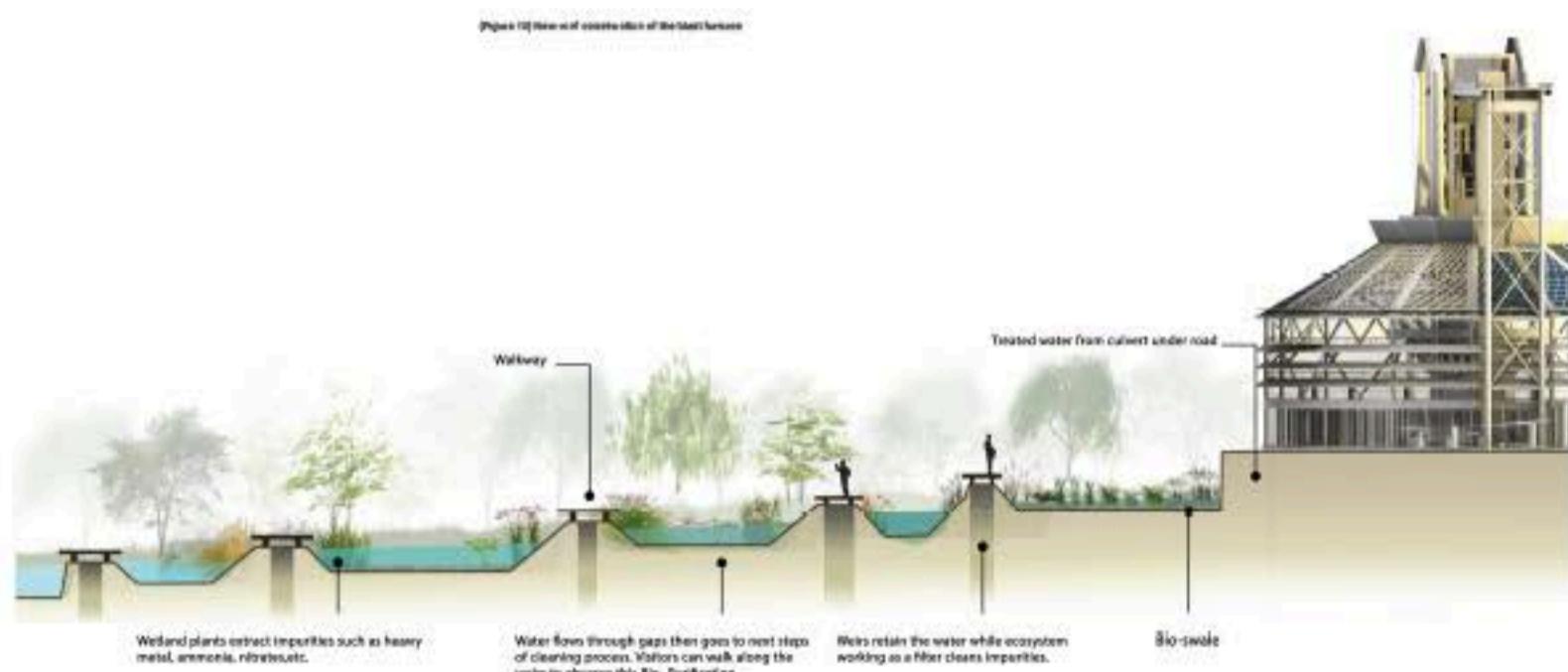


(Figure 10) Cross-section of construction of the blast furnace

WATER MANAGEMENT



(Figure 11) Schematic of the water management



(Figure 12) Cross-section of grey water treatment (part 1 of 3 in total)



(Figure 13) Transition of the Shougang site facilitated by the integration of the museum



Micro Tourism
Shougang PTF is tailored to the needs of the concept visitors tourists and therefore can easily participate in the Shougang-wide „two days, one night“-tours which aim to promote short-term tourism.

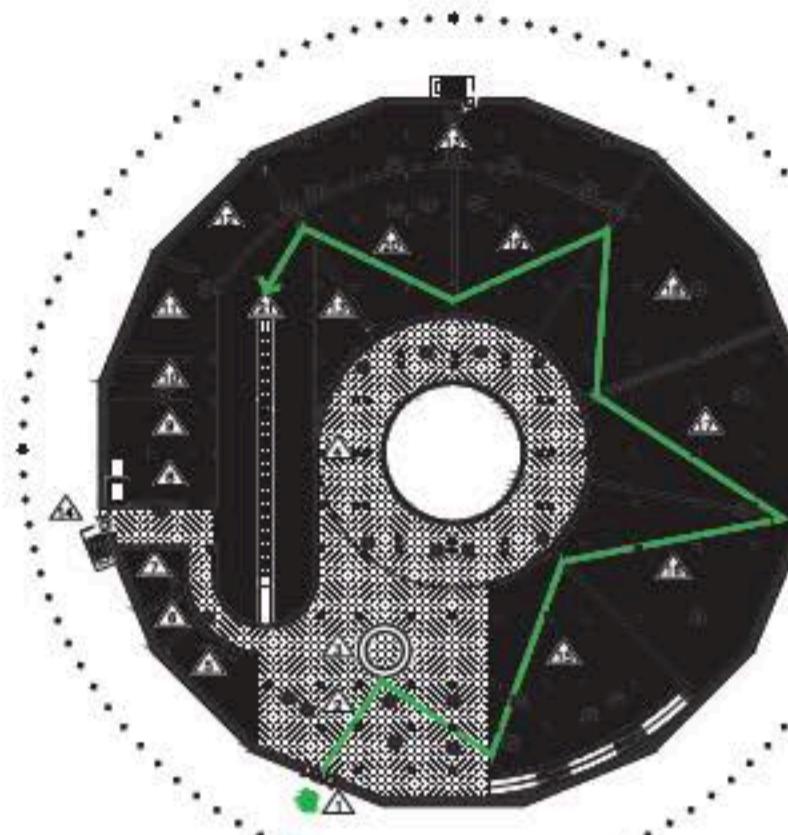


Entertainment
Shougang PTF combines education with entertainment. Rather offering dry knowledge, nor being dull amusement, it's conceivable to create anenriching, touching and eye-widening experience.



Sustainability
An exhibition center promoting sustainability can only be successful, if the building applies sustainable concepts itself. The blast furnace uses cutting-edge technologies to minimize its carbon footprint.

Reality - Part 1

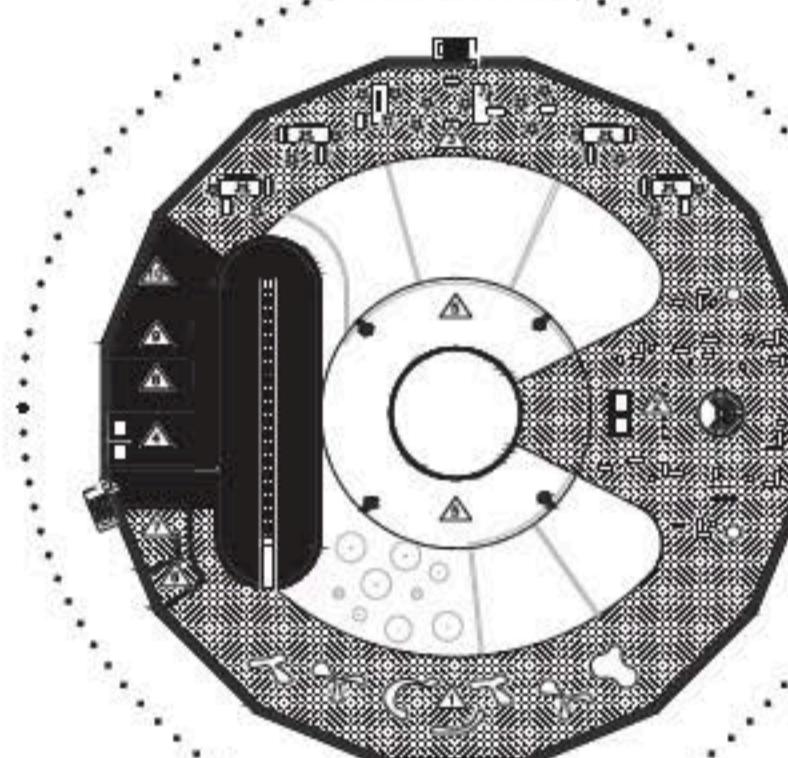


01



First Floor Plan | SC 1:500 (mm)

- 01. Main Entrance
- 02. Security Check
- 03. Ticket Office
- 04. Light Exhibition
- 05. Wardrobe
- 06. Men's Washroom
- 07. Women's Washroom
- 08. Staff Access
- 09. Office
- 10. CCTV Room
- 11. Control Room
- 12. Technical Support
- 13. Warehouse
- 14. Staff Entrance
- 15. Exhibition | Deforestation of Rainforest
- 16. Exhibition | Water Pollution
- 17. Exhibition | Ice Melt at the Poles
- 18. Exhibition | Sea Level Rise
- 19. Exhibition | Desertification
- 20. Exhibition | Exploitation of Earth
- 21. Exhibition | Ocean of Trash

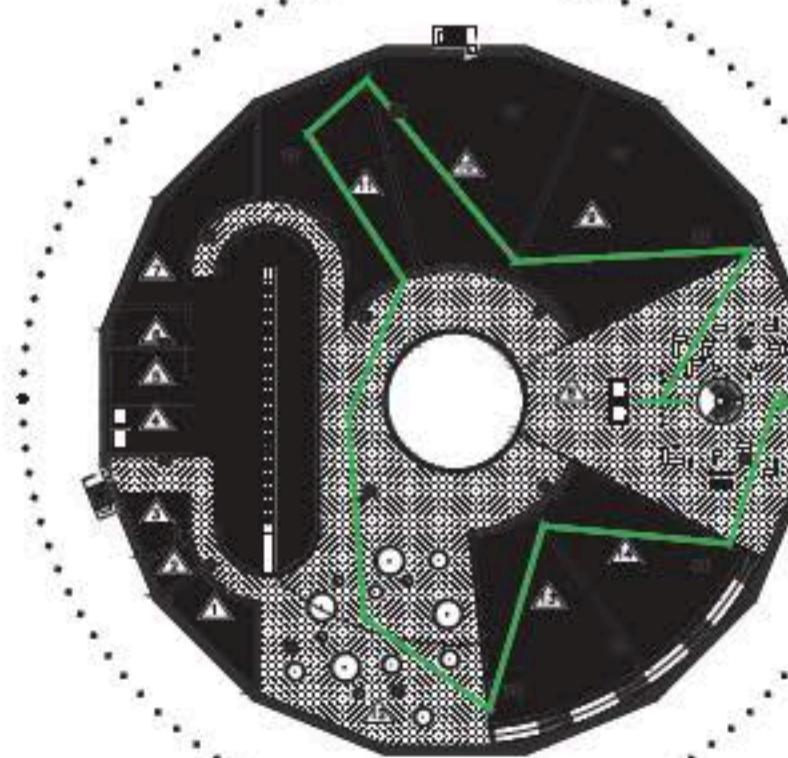


03



Third Floor Plan | SC 1:500 (mm)

- 01. Workshop Area
- 02. Foyer
- 03. Library
- 04. Staff Area
- 05. Void
- 06. Men's Washroom
- 07. Women's Washroom
- 08. Office
- 09. Technical Support
- 10. Museum Storage



02



Second Floor Plan | SC 1:500 (mm)

- 01. Photo Studio
- 02. Men's Washroom
- 03. Women's Washroom
- 04. Staff Access
- 05. Office
- 06. Technical Support
- 07. Museum Storage
- 08. Foyer
- 09. Mirror Exhibition | Deforestation of Rainforest
- 10. Mirror Exhibition | Water Pollution
- 11. Mirror Exhibition | Ice Melt at the Poles
- 12. Mirror Exhibition | Sea Level Rise
- 13. Mirror Exhibition | Desertification
- 14. Mirror Exhibition | Exploitation of Earth
- 15. Main Exit



THE EXHIBITION

After passing the security gate at the main entrance, the visitors find themselves in the entrance hall where they can purchase tickets for the exhibition, bring their clothes to the wardrobe and visit washing rooms. If interested, the visitors can take a short look around the former furnace, getting an impression of the history of the site.

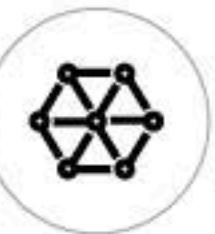
Directly afterwards, they proceed to the main exhibition on the 1st floor in which they are guided through the disturbing appearance of 6 climate zones at how they will change after climate change and human impact hit them – each of them relating to one single environmental issue. Invited to touch, feel, smell, listen, interact and take pictures in this artful coarse of poetic though bitter abstraction, the visitors will follow along a path through a cleaned and dry rainforest, a polluted underwater area, an arctic setting that has long ago started to melt away, an evacuated coastal town in which people fled from sea level rise, a city close to the desert on facing desertification and a coal mining area in which there is barely something left of what nature had once created.

At the end of the first floor, the visitors arrive at the

"ocean of trash", a symbolic man-made dead end. In this stadium-shaped, long and spacious hall, there is only one single escalator going up towards the only exit of this misery. Following the rules of mother nature – a destination both meaningful and conceptually integrated in the building's architecture. While going up this escalator to the 3rd floor, the whole surrounding undergoes a notable change from pollution to sprouting cleanliness and blossoming.

Arriving on the 3rd floor, the visitors can look down into the 2nd floor's safe and sound, undamaged ecosystems – which represent the same climate zones as presented on the 1st floor – while participating in a series of workshops showing simple measures everybody can take to preserve the natural beauty of the environment. The workshops are tailor-made to fit the environment presented on the 2nd floor. For interested visitors, there is also a library containing literature on environment protection, energy generation and related topics whose books wait to be browsed.

After learning about effective steps that help to protect our planet in the workshops, the visitors go downstairs to the 2nd floor where they can feel the heart of the exhibition centre: an artful nature that invites to listen to



Integration of surrounding space
Representing a vivid and green surrounding, the space also demonstrates the future of water management. It shows how aesthetics and functionality can go hand in hand.

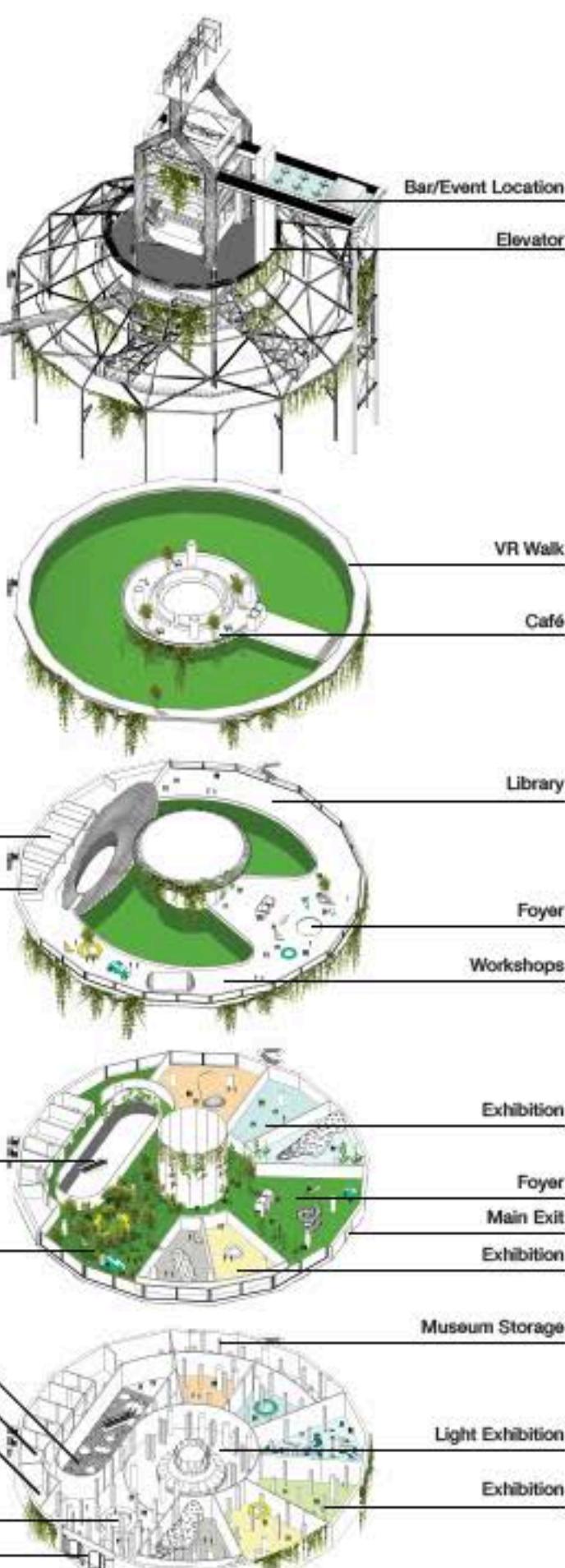


Talking through arts
The exhibition center develops an own unique language of fine arts, which makes the visitor dive into a coarse of metaphors, symbols and tangible poetry.



Guiding towards the future
Shougang FYF does not only show the impact humanity has on environment protection, but its visitors will also learn how to get there by workshops and an extensive library.

EXPLOSION DRAWING OF THE FURNACE



(Figure 24) Spatial distribution of the assigned functions of Blast Furnace No. 1 represented as exploded drawing

AREA CALCULATION



(Figure 25) Area distribution of the floors of the furnace. Yellow areas represent public areas, blue areas represent support areas.

