

Rjukan-Notodden Industrial Heritage Site

1. World Heritage Property Data

1.1 - Name of World Heritage property

Rjukan-Notodden Industrial Heritage Site

1.2 - World Heritage property details

1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Rjukan-Notodden Industrial Heritage Site	59.879 / 8.594	4959.5	33967.6	38927.1	2015
Total (ha)		4959.5	33967.6	38927.1	

1.4 - Map(s)

Title	Date	Link to source
Rjukan-Notodden Industrial Heritage Site - map of inscribed property	2015	

1.5 - Web and Social Media data of the property (if applicable)

1. industriarven.no

Comment

1. <https://www.riksantikvaren.no/en/world-heritage/> 2. <https://www.industriarven.no/> 3. <https://www.vtk.no/meny/tjenester/kultur/unesco-verdensarv/#> 4. <https://www.facebook.com/Industriarven>

2. Other Conventions/Programmes under which the World Heritage property is protected (if applicable)

2.1 - Records indicate that your World Heritage property (in whole or in part) is designated and/or protected under the Conventions/programmes shown in the prefilled table below. Please check and amend as necessary.

		The World Heritage property (in whole or in part) <u>is</u> designated and/or protected under this convention/programme	The World Heritage property (in whole or in part) <u>is not</u> designated and/or protected under this convention/programme
2.1.1	International Register of Cultural Property under Special Protection (1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.2	List of Cultural Property under Enhanced Protection (Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.3	The List of Wetlands of International Importance (The Ramsar List) (Convention on Wetlands of International Importance (Ramsar Convention))		×
2.1.4	World Network of Biosphere Reserves Man and the Biosphere (MAB) Programme		×
2.1.5	Global Geoparks Network UNESCO Global Geoparks		×

2.2 - Please provide comments on 2.1 if necessary

This section should have listed other UNESCO designations as Creative Cities, Intangible Register, etc. Important to underline synergies between designations.

2.3 - Do your national authorities intend to request the granting of Enhanced Protection (if relevant) under the Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict for the World Heritage property in the next three years?

No

2.4 - Do your national authorities intend to designate whole or part of the World Heritage property for inclusion in the List of Wetlands of International Importance (The Ramsar List), if relevant, in the next three years?

No

2.5 - Do your national authorities intend to designate whole or part of the World Heritage property as a Man and Biosphere Reserve (if relevant) in the next three years?

No

2.6 - Do your national authorities intend to apply for whole or part of World Heritage property to be designated as a UNESCO Global Geopark (if relevant) in the next three years?

No

2.7 - Please indicate the level of cooperation at property level between designations under different Conventions/Programmes

2.7.1	1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	✕
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.2	Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	✕
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.3	Convention on Wetlands of International Importance (Ramsar Convention)	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.4	Man and the Biosphere (MAB) Programme	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.5	UNESCO Global Geoparks	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	

2.8 - Please add any further comments on cooperation with the other designation(s)/programme(s)

Regional cooperation between designations is an opportunity we should use. The national commission for UNESCO is taking initiative towards dialog and cooperation between designations in 2023.

2.9 - Are you aware of any elements associated with the World Heritage property that have been inscribed on the Representative List of the Intangible Cultural Heritage?

No

2.10 - Please list any elements associated with the World Heritage property inscribed under the Convention for the Safeguarding of the Intangible Cultural Heritage of which you are aware

2.11 - Are you aware of any documentary heritage listed under the Memory of the World Programme associated with the World Heritage property?

No

2.12 - Please list any documentary heritage associated with the World Heritage property listed under the Memory of the World Programme of which you are aware.

There is no documentary heritage associated with our WH site listed under the Memory of the World Programme. There is however items inscribed in the national register: the labour movement revolution flag (1918/1919);

3. Statement of Outstanding Universal Value

3.1 - Statement of Outstanding Universal Value for the property as adopted by the World Heritage Committee

Statement of Outstanding Universal Value

Brief synthesis

Located in a dramatic landscape of mountains, waterfalls and river valleys, the Rjukan-Notodden Industrial Heritage Site comprises a cluster of pioneering hydro-electric power plants, transmission lines, factories, transport systems and towns. The complex was established by the Norsk-Hydro company which brought together results of science and research from Europe and North America to produce hydroelectricity and manufacture artificial fertilizer from nitrogen in the air in response to the Western world's demand for increased agricultural production in the early 20th century. Rjukan and Notodden company towns incorporated social innovations in workforce provision influenced by international planning ideas which together with innovative transport solutions enabled supply of a new, globally significant product for the world-wide market.

Criterion (ii): Rjukan-Notodden Industrial Heritage Site manifests an exceptional combination of industrial themes and assets tied to the landscape, which exhibit an important exchange on technological development in the early 20th century.

Criterion (iv): The technological ensemble of Rjukan-Notodden comprising dams, tunnels, pipes, power plants, power lines, factory areas and equipment, the company towns, railway lines and ferry service, located in a landscape where the natural topography enabled hydroelectricity to be generated in the necessary large amounts stands out as an example of new global industry in the early 20th century.

Integrity

In general all important remaining physical structures and objects that are testimony to the industrial pioneering period of the production of artificial fertilizer for agriculture in Norway in the early 20th century are within the boundaries of the area which is of adequate size to ensure the complete representation of the features and processes which convey the property's significance. The physical fabric of the property and its significant features are generally in a good condition. The property is not suffering from adverse effects and neglect.

Authenticity

The property incorporates buildings, structures and remains which convey credibly and truthfully its Outstanding Universal Value as a pioneering industrial enterprise for the production of artificial fertilizer in the early 20th century.

Protection and management requirements

The property is protected under the Cultural Heritage Act 1978, amended 2009 and the Planning & Building Act 2009, amended 2012. All specified items will be protected by the Cultural Heritage Act or specific heritage provisions of the Planning & Building Act by June 2015. The buffer zone is protected under the Cultural Heritage Act and zoning controls pursuant to the Planning & Building Act.

A 'Declaration of Intent' has been signed by the State Party and relevant county council and municipalities undertaking to protect the Outstanding Universal Value and the buffer zone. A provisional World Heritage Council comprising representatives from the Directorate for Cultural Heritage, the county authority, municipalities and the Norwegian Industrial Workers Museum has been set up to deliver a management structure for the property. A World Heritage Coordinator with responsibility for the whole area will be appointed. The Management Plan 2014-2019 includes an Action Plan with goals and actions for conservation, strengthening of Outstanding Universal Value, competence building and research, information & presentation, and visitor management and will include a risk preparedness strategy.

Comment

Outdated information on the protection and management requirements. Applicable instruments are listed in chapter 5. The site can come with an updated version if the directorate (national authority) wishes.

3.2 - Please list the key attributes of Outstanding Universal Value of your property and give an assessment of their condition. As a guideline, it is suggested to focus on approximately five key attributes (no more than 15 overall).

	Brief identification of attribute	Preserved	Compromised	Seriously compromised	Lost
3.2.1	Tinfos power plants	✗			
3.2.2	Hydro's power plants in the Tinnelva river	✗			
3.2.3	Vemork Power Plant	✗			
3.2.4	Såheim Power Plant	✗			
3.2.5	Regulating dams	✗			
3.2.6	Power transmission	✗			
3.2.7	Hydro Industrial Park in Notodden	✗			
3.2.8	Hydro Industrial Park in Rjukan	✗			
3.2.9	Production equipment		✗		
3.2.10	The Tinnoset Railway Line			✗	
3.2.11	The Rjukan Railway Line		✗		
3.2.12	Notodden Hydro Town	✗			
3.2.13	Rjukan Hydro Town	✗			
3.2.14	Landscape and natural topography	✗			
3.2.15					

3.3 - Comments, conclusions and/or recommendations related to Statement of Outstanding Universal Value

The nomination file for the WH list lists 13 specific attributes and 97 significant objects representative for the 4 components of the site, power production, the factories, transportation system and company towns. The fact that this lists exists and are so concrete, makes the connections, articulations and synergies, as well as the landscape itself, which is a central piece of both criteria ii and iv, disappear from assessments, the case in recent HIAs. Landscape is here added as 14th attribute

4. Factors Affecting the Property

4.1. Buildings and Development

4.1.1 - Housing

Relevant	✕ Not relevant
----------	----------------

4.1.2 - Commercial development

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔨 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕		✕			↗

4.1.3 - Industrial areas

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔨 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕				↗
➖ Negative ✕		✕	✕	✕			↗

4.1.4 - Major visitor accommodation and associated infrastructure

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔨 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕			✕		→	
➖ Negative ✕		✕	✕	✕			↗

4.1.5 - Interpretative and visitation facilities

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔨 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕			↗
➖ Negative							

4.1.6 - Please comment as necessary on how the factors selected as relevant in 4.1 are affecting the property either negatively or positively






There has been an increasing trend in the building of holiday cabins in the buffer zone. Empty industrial buildings in the core zone are also something to tackle as maintenance becomes expensive and difficult to prioritize by owners. There is the need to ensure earlier participatory processes in the work with planning of new projects in the WH area. An early involving of cultural heritage authorities and the site manager has by now been totally dependent of the good will of the project owners.

4.2. Transportation Infrastructure


4.2.1 - Ground transport infrastructure

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔨 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕		✕			→	















 Negative 							
--	--	---	---	--	--	---	--

4.2.2 - Underground transport infrastructure

Relevant	 Not relevant
----------	--

4.2.3 - Air transport infrastructure

 Relevant	Not relevant
--	--------------















	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive 							
							

4.2.4 - Marine transport infrastructure

Relevant	 Not relevant
----------	--

4.2.5 - Effects arising from use of transportation infrastructure

 Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							



















4.2.6 - Please comment as necessary on how the factors selected as relevant in 4.2 are affecting the property either negatively or positively

Increasing heavy traffic through the core zone as a result of the establishment of new industry. Increasing traffic on E134 through parts of the WH, + new road developments. Original cable car still in use as an attraction but also as its original purpose, to transport the local community to the top of the mountain, accessing cabins, the nature and most importantly, the sun (Rjukan has 5 months of no sun in the valey).

4.3. Services Infrastructures



















4.3.1 - Water infrastructure

 Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive 							
 Negative 							

4.3.2 - Renewable energy facilities

 Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive 							
 Negative 							

4.3.3 - Non-renewable energy facilities

Relevant	 Not relevant
----------	--

4.3.4 - Localised utilities

Relevant	 Not relevant
----------	--

4.3.5 - Major linear utilities

Relevant	 Not relevant
----------	--

4.3.6 - Please comment as necessary on how the factors selected as relevant in 4.3 are affecting the property either negatively or positively

The original hydropower facilities from Hydro at the property are still in use and provide approximately 1/3 of Hydro's power production in Norway. Some have been updated with new, more efficient technology while conserving the original technology as heritage. Wind and solar energy production can have negative impacts in the natural and urban landscape. The stress of the capacity of the dam increases the risk of flooding and loss of cultural heritage in the valley in case of extreme weather.

4.4. Pollution

4.4.1 - Pollution of marine waters

Relevant	✕ Not relevant
----------	----------------

4.4.2 - Ground water pollution

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	→ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕		✕	✕				📈

4.4.3 - Surface water pollution

Relevant	✕ Not relevant
----------	----------------

4.4.4 - Air pollution

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	→ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕	✕				📈

4.4.5 - Solid waste

Relevant	✕ Not relevant
----------	----------------

4.4.6 - Input of excess energy

Relevant	✕ Not relevant
----------	----------------

4.4.7 - Please comment as necessary on how the factors selected as relevant in 4.4 are affecting the property either negatively or positively

The increase in traffic pollution resulting from both tourist visitation as well as from the establishment of new industri at the core zone. Central streets in Rjukan and Notodden are used for both normal and heavy traffic (Sam Eydesgata and E134); Because the historical industrial areas of property have identified soil pollution from the earlier industrial production, the increase in the quantity of rain can lead to washing off the pollution into ground water. New legislation controls pollution.

4.5. Biological resource use/modification

4.5.1 - Fishing/collecting aquatic resources

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	→ Stable	📈 Increasing
🟢 Positive ✕	✕		✕			→	
🔴 Negative							

4.5.2 - Aquaculture

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	→ Stable	📈 Increasing
🟢 Positive ✕		✕	✕			→	
🔴 Negative ✕		✕	✕			→	

4.5.3 - Land conversion

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.5.4 - Livestock farming/Grazing of domesticated animals

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.5.5 - Crop production

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.5.6 - Commercial wild plant collection

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.5.7 - Subsistence wild plant collection

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.5.8 - Commercial hunting

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.5.9 - Subsistence hunting

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.5.10 - Forestry/Wood production

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
Negative							

4.5.11 - Please comment as necessary on how the factors selected as relevant in 4.5 are affecting the property either negatively or positively

Møsvatn lake/dam is still in use for small scale fishing by the local community. The construction of the largest land-based aquaculture in the world, inside the core zone, resulted in the construction of a large release pipe directly into Tinnssjøen lake, where the railway ferries are, to be used for release of cleaned water, but also as an emergency release.

4.6. Physical resource extraction

4.6.1 - Mining

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.6.2 - Quarrying

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.6.3 - Oil and gas

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.6.4 - Water (extraction)

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.6.5 - Please comment as necessary on how the factors selected as relevant in 4.6 are affecting the property either negatively or positively

4.7. Local conditions affecting physical fabric

4.7.1 - Wind

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							

⊖ Negative ✕	✕	✕	✕	✕			↗
--------------	---	---	---	---	--	--	---

4.7.2 - Relative humidity

✕ Relevant	Not relevant						
------------	--------------	--	--	--	--	--	--

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔊 Potential	📍 Inside	🌿 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
⊖ Negative ✕		✕	✕				↗

4.7.3 - Temperature

✕ Relevant	Not relevant						
------------	--------------	--	--	--	--	--	--

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔊 Potential	📍 Inside	🌿 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
⊖ Negative ✕		✕	✕	✕			↗

4.7.4 - Radiation/Light

Relevant	✕ Not relevant						
----------	----------------	--	--	--	--	--	--

4.7.5 - Dust

Relevant	✕ Not relevant						
----------	----------------	--	--	--	--	--	--

4.7.6 - Water (rain/water table)

✕ Relevant	Not relevant						
------------	--------------	--	--	--	--	--	--

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔊 Potential	📍 Inside	🌿 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
⊖ Negative ✕		✕	✕				↗

4.7.7 - Pests

Relevant	✕ Not relevant						
----------	----------------	--	--	--	--	--	--

4.7.8 - Micro-organisms

Relevant	✕ Not relevant						
----------	----------------	--	--	--	--	--	--

4.7.9 - Please comment as necessary on how the factors selected as relevant in 4.7 are affecting the property either negatively or positively

Climate change is in general terms moving inland. This means both warmer and wetter climate where before was very cold and dry. We believe we'll start to see worsening of conservation conditions in wooden buildings in the next 10 years and in concrete buildings in 20/30 years. A significant problem will be rising water amounts in the mountain lands, changing waterlines and ecosystems, and increasing the risk for landslides, changing the landscape and setting the historical buildings at risk.

4.8. Social/Cultural uses of heritage

4.8.1 - Ritual/Spiritual/Religious and associative uses












✕ Relevant	Not relevant						
------------	--------------	--	--	--	--	--	--

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔊 Potential	📍 Inside	🌿 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive ✕	✕	✕	✕				↗
⊖ Negative							

4.8.2 - Society's valuing of heritage

✕ Relevant	Not relevant						
------------	--------------	--	--	--	--	--	--

	Impact	Origin	Trend of impact
--	--------	--------	-----------------











Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕	✕	✕				
 Negative ✕	✕	✕	✕				

4.8.3 - Indigenous hunting, gathering and collecting

Relevant	✕ Not relevant
----------	----------------









4.8.4 - Changes in traditional ways of life and knowledge system

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕		✕	✕			











4.8.5 - Identity, social cohesion, changes in local population and community

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕		✕				

4.8.6 - Impacts of tourism/Visitation/Recreation

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕	✕	✕				
 Negative							











4.8.7 - Please comment as necessary on how the factors selected as relevant in 4.8 are affecting the property either negatively or positively

The property has had a significant development in visitation numbers after the inscription on the WH list, but out migration has been an issue. Population decreased from 10000 in the gold industrial years to 3000 after deindustrialization, leading to economical and social issues. Rjukan has been scenario to relevant and heroic WWII events. It has been a challenge to separate these two stories at interpretation level, resulting in many thinking that the war events are the reason the site is a WH.

4.9. Other human activities











4.9.1 - Illegal activities

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕		✕				











4.9.2 - Deliberate destruction of heritage

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕		✕				

4.9.3 - Military training

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕		✕				
 Negative							

4.9.4 - War

Relevant	✕ Not relevant
----------	----------------

4.9.5 - Terrorism

Relevant	✕ Not relevant
----------	----------------

4.9.6 - Civil unrest

Relevant	✕ Not relevant
----------	----------------











4.9.7 - Please comment as necessary on how the factors selected as relevant in 4.9 are affecting the property either negatively or positively

Illegal changes in private buildings, mostly in the company towns, to accommodate contemporary standards in quality of life are now decreasing by information work. Parts of the property which are not under surveillance are often subject to vandalism, graffiti and looting, specially the transportation system (trains and railway, which is already in critical condition). Military training at the property is because of the history and specially challenging topografy. They get information about OUV

4.10. Climate change and severe weather events











4.10.1 - Storms

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕		✕				











4.10.2 - Flooding

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕		✕	✕				

4.10.3 - Drought

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕		✕		✕			

4.10.4 - Desertification




Relevant	✕ Not relevant
----------	----------------






4.10.5 - Changes to oceanic waters

Relevant	✕ Not relevant
----------	----------------

4.10.6 - Temperature change













✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							

 Negative 							
--	--	---	--	---	--	--	---

4.10.7 - Other climate change impacts

 Relevant	Not relevant
--	--------------


	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.10.8 - Please comment as necessary on how the factors selected as relevant in 4.10 are affecting the property either negatively or positively

It has been observed an increase in the frequency and intensity of winds and storms leading to damage in important elements of the property like the ferries and trains. As commented before, the increase of melting waters increases risk of landslides and washing off old industrial pollutants into the rivers and lakes.

4.11. Sudden ecological or geological events

4.11.1 - Volcanic eruption

Relevant	 Not relevant
----------	--

4.11.2 - Earthquake










Relevant	 Not relevant
----------	--

4.11.3 - Tsunami/Tidal wave

Relevant	 Not relevant
----------	--










4.11.4 - Avalanche/Landslide

 Relevant	Not relevant
---	--------------


	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.11.5 - Erosion and siltation/Deposition

 Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.11.6 - Fire (wildfire)


Relevant	 Not relevant
----------	--

4.11.7 - Please comment as necessary on how the factors selected as relevant in 4.11 are affecting the property either negatively or positively

Changes in climate have increased the frequency of avalanches, landslides and erosion, both in the valley walls as in the lakes' and river banks.







4.12. Invasive/alien species or hyper-abundant species

4.12.1 - Translocated species

Relevant	 Not relevant
----------	--

4.12.2 - Invasive/Alien terrestrial species

 Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							

Negative ✕	✕	✕					
------------	---	---	--	--	--	--	--

4.12.3 - Invasive/Alien freshwater species

Relevant	✕ Not relevant
----------	----------------

4.12.4 - Invasive/Alien marine species

Relevant	✕ Not relevant
----------	----------------

4.12.5 - Hyper-abundant species

Relevant	✕ Not relevant
----------	----------------

4.12.6 - Modified genetic material

Relevant	✕ Not relevant
----------	----------------

4.12.7 - Please comment as necessary on how the factors selected as relevant in 4.12 are affecting the property either negatively or positively

Warmer and more humid climate results in woodboring beetles and other pests moving towards the interior of the country, where they couldn't survive before. This results in increasing damage to the heritage wood buildings of the property.

4.13. Management and institutional factors

4.13.1 - Management system/Management plan

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive ✕	✕		✕				
Negative							

4.13.2 - Legal framework

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive ✕	✕	✕	✕				
Negative ✕	✕	✕	✕				

4.13.3 - Governance

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive ✕	✕	✕	✕	✕			
Negative							

4.13.4 - Management activities











✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive ✕	✕	✕	✕	✕			
Negative ✕	✕			✕			

4.13.5 - Financial resources

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing

 Positive 							
 Negative 							

4.13.6 - Human resources

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive 							
 Negative 							

4.13.7 - Low impact research/monitoring activities

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive 							
 Negative							

4.13.8 - High impact research/monitoring activities

Relevant		 Not relevant	
----------	--	--	--

4.13.9 - Please comment as necessary on how the factors selected as relevant in 4.13 are affecting the property either negatively or positively

The property has a decentralized management system where just 3,2 years/work are designated and exclusively working with World Heritage. These professionals work for different organizations and are insufficient to manage the property at the quality levels the national policy for WH ambitions. In theory, other employees, from all the involved organizations and all disciplines were supposed to work for and with the WH, but capacity and articulation issues difficult positive results on that.
















































4.14. Other factor(s)

4.14.1 - Other factor(s)

The site manager was transferred from a neutral and hierarchical high position in the county council to under the Culture sector. This resulted in loss of independence to protect the OUV and access to other central sectors as urban planning, business, education. This changes also influenced greatly the articulation and multilateral relations with other organizations in the system. New organizational changes, where the site manager is even more "hidden" in the county council are planned for 2024.

4.15. Factors Summary Table

4.15.1 - Factors Summary Table

Name	Impact		Origin		Trend	
4.1 Buildings and Development						
4.1.2 Commercial development						
						
4.1.3 Industrial areas						
						
4.1.4 Major visitor accommodation and associated infrastructure						
						
4.1.5 Interpretative and visitation facilities						
4.2 Transportation Infrastructure						
4.2.1 Ground transport infrastructure						
						
4.2.3 Air transport infrastructure						
4.2.5 Effects arising from use of transportation infrastructure						
						

4.3 Services Infrastructures						
4.3.1 Water infrastructure						
4.3.2 Renewable energy facilities						
4.4 Pollution						
4.4.2 Ground water pollution						
4.4.4 Air pollution						
4.5 Biological resource use/modification						
4.5.1 Fishing/collecting aquatic resources						
4.5.2 Aquaculture						
4.5.10 Forestry/Wood production						
4.7 Local conditions affecting physical fabric						
4.7.1 Wind						
4.7.2 Relative humidity						
4.7.3 Temperature						
4.7.6 Water (rain/water table)						
4.8 Social/Cultural uses of heritage						
4.8.1 Ritual/Spiritual/Religious and associative uses						
4.8.2 Society's valuing of heritage						
4.8.4 Changes in traditional ways of life and knowledge system						
4.8.5 Identity, social cohesion, changes in local population and community						
4.8.6 Impacts of tourism/Visitation/Recreation						
4.9 Other human activities						
4.9.1 Illegal activities						
4.9.2 Deliberate destruction of heritage						
4.9.3 Military training						

4.10 Climate change and severe weather events						
4.10.1 Storms						
	⊖	🚩		⊕		↗
4.10.2 Flooding						
	⊖		🚩	⊕		↗
4.10.3 Drought						
	⊖		🚩		↻	↗
4.10.6 Temperature change						
	⊖		🚩		↻	↗
4.10.7 Other climate change impacts						
	⊖	🚩	🚩	⊕		↗
4.11 Sudden ecological or geological events						
4.11.4 Avalanche/Landslide						
	⊖	🚩	🚩	⊕		↗
4.11.5 Erosion and siltation/Deposition						
	⊖	🚩		⊕		→
4.12 Invasive/alien species or hyper-abundant species						
4.12.2 Invasive/Alien terrestrial species						
	⊖	🚩	🚩			↗
4.13 Management and institutional factors						
4.13.1 Management system/Management plan	⊕	🚩		⊕		↗
4.13.2 Legal framework	⊕	🚩	🚩	⊕		↗
	⊖	🚩	🚩	⊕		→
4.13.3 Governance	⊕	🚩	🚩	⊕	↻	→
4.13.4 Management activities	⊕	🚩	🚩	⊕	↻	↗
	⊖	🚩			↻	→
4.13.5 Financial resources	⊕	🚩	🚩		↻	↘
	⊖	🚩	🚩		↻	↗
4.13.6 Human resources	⊕		🚩	⊕		↗
	⊖	🚩		⊕		→
4.13.7 Low impact research/monitoring activities	⊕		🚩	⊕		↗
Legend 🚩 Current 🚩 Potential ⊖ Negative ⊕ Positive ⊕ Inside ↻ Outside						

4.16. Assessment of current and potential positive and negative factors

4.16.1 - Assessment of current and potential negative and positive factors

4.1 Buildings and Development









Name	Impact			Origin		Trend
4.1.2 Commercial development						

Spatial scale - Area affected by the factor							
<input checked="" type="checkbox"/>	Restricted						
<input type="checkbox"/>	Localised						
<input type="checkbox"/>	Extensive						
<input type="checkbox"/>	Widespread						
Temporal scale - Occurrence of the impact							
<input type="checkbox"/>	One off or rare						
<input checked="" type="checkbox"/>	Intermittent or sporadic						
<input type="checkbox"/>	Frequent						
<input type="checkbox"/>	On-going						
Impact - Impact on the attributes							
<input type="checkbox"/>	Insignificant						
<input checked="" type="checkbox"/>	Minor						
<input type="checkbox"/>	Significant						
<input type="checkbox"/>	Major						
Management response - Capacity of management to respond							
<input type="checkbox"/>	High capacity						
<input type="checkbox"/>	Medium capacity						
<input type="checkbox"/>	Low capacity						
<input checked="" type="checkbox"/>	No capacity and / or resources						
Trend - Development over the last 6 years							
<input type="checkbox"/>	Decreasing						
<input type="checkbox"/>	Static						
<input checked="" type="checkbox"/>	Increasing						

Name	Impact			Origin		Trend
4.1.3 Industrial areas						

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input checked="" type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input checked="" type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor

✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing






Name	Impact	Origin	Trend
4.1.4 Major visitor accommodation and associated infrastructure	 		
	 		

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.1.5 Interpretative and visitation facilities	  	 	

Spatial scale - Area affected by the factor							
	Restricted						
✕	Localised						
	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						
	Intermittent or sporadic						
	Frequent						
✕	On-going						
Impact - Impact on the attributes							
	Insignificant						
	Minor						
✕	Significant						
	Major						
Management response - Capacity of management to respond							
	High capacity						
✕	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Development over the last 6 years							
	Decreasing						
	Static						
✕	Increasing						

4.2 Transportation Infrastructure

Name	Impact	Origin	Trend
4.2.1 Ground transport infrastructure	<div> <div> </div> <div> </div> </div>	<div> <div> </div> </div>	<div> <div> </div> </div>
	<div> <div> </div> <div> </div> </div>	<div> <div> </div> </div>	<div> <div> </div> </div>
Spatial scale - Area affected by the factor			
	Restricted		
✕	Localised		
	Extensive		
	Widespread		
Temporal scale - Occurrence of the impact			
	One off or rare		
	Intermittent or sporadic		
✕	Frequent		
	On-going		
Impact - Impact on the attributes			

	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.2.3 Air transport infrastructure	<div> <div>+</div> <div>🚩</div> <div>🚩</div> </div>	<div> <div>🔄</div> </div>	<div> <div>↗</div> </div>

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing








Name	Impact	Origin	Trend
------	--------	--------	-------

4.2.5 Effects arising from use of transportation infrastructure							
Spatial scale - Area affected by the factor							
	Restricted						
	Localised						
	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						
	Intermittent or sporadic						
	Frequent						
	On-going						
Impact - Impact on the attributes							
	Insignificant						
	Minor						
	Significant						
	Major						
Management response - Capacity of management to respond							
	High capacity						
	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Development over the last 6 years							
	Decreasing						
	Static						
	Increasing						

4.3 Services Infrastructures

Name	Impact	Origin	Trend
4.3.1 Water infrastructure			
Spatial scale - Area affected by the factor			
	Restricted		
	Localised		
	Extensive		
	Widespread		
Temporal scale - Occurrence of the impact			
	One off or rare		
	Intermittent or sporadic		
	Frequent		
	On-going		

Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.3.2 Renewable energy facilities	 		
	 	 	

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread





Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major






Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.4 Pollution

Name	Impact			Origin		Trend
4.4.2 Ground water pollution						
						

Spatial scale - Area affected by the factor	
	Restricted
<input checked="" type="checkbox"/>	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
<input checked="" type="checkbox"/>	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
<input checked="" type="checkbox"/>	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
<input checked="" type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
<input checked="" type="checkbox"/>	Increasing

Name	Impact			Origin		Trend
4.4.4 Air pollution						
						

Spatial scale - Area affected by the factor	
	Restricted
<input checked="" type="checkbox"/>	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic









✕	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

4.5 Biological resource use/modification

Name	Impact			Origin		Trend
4.5.1 Fishing/collecting aquatic resources						

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	

	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.5.2 Aquaculture	 		
	 		



Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing






Name	Impact	Origin	Trend
4.5.10 Forestry/Wood production	 		

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare





	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.7 Local conditions affecting physical fabric

Name	Impact			Origin		Trend
4.7.1 Wind						
						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.7.2 Relative humidity						
						



Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources





Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.7.3 Temperature						
						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
---	--





	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.7.6 Water (rain/water table)						
						

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

4.8 Social/Cultural uses of heritage

Name	Impact	Origin	Trend
4.8.1 Ritual/Spiritual/Religious and associative uses	  		








Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major





Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.8.2 Society's valuing of heritage	  		
	  		





Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.8.4 Changes in traditional ways of life and knowledge system						
						

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity

	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.8.5 Identity, social cohesion, changes in local population and community			
	 		





Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources





Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.8.6 Impacts of tourism/Visitation/Recreation	  		

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread





Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

4.9 Other human activities





Name	Impact			Origin		Trend
4.9.1 Illegal activities						
						

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity

✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
✕	Decreasing
	Static
	Increasing




Name	Impact	Origin	Trend
4.9.2 Deliberate destruction of heritage			
	 		

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name		Impact			Origin		Trend
4.9.3 Military training							
Spatial scale - Area affected by the factor							
✕	Restricted						
	Localised						
	Extensive						




	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.10 Climate change and severe weather events

Name	Impact	Origin	Trend
4.10.1 Storms			
			

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity

	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.10.2 Flooding			
			



Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major





Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.10.3 Drought			
			






Spatial scale - Area affected by the factor	
	Restricted
	Localised

✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.10.6 Temperature change						
						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity

	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.10.7 Other climate change impacts			
			
			

Spatial scale - Area affected by the factor

✕	Restricted
	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact

✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going

Impact - Impact on the attributes

✕	Insignificant
	Minor
	Significant
	Major





Management response - Capacity of management to respond

	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources

Trend - Development over the last 6 years

	Decreasing
	Static
✕	Increasing

4.11 Sudden ecological or geological events

Name	Impact	Origin	Trend
4.11.4 Avalanche/Landslide			
			
			

Spatial scale - Area affected by the factor

	Restricted
--	------------




✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.11.5 Erosion and siltation/Deposition						
	⊖	⚠		⊙		➡

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	

	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.12 Invasive/alien species or hyper-abundant species

Name	Impact			Origin		Trend
4.12.2 Invasive/Alien terrestrial species						
						

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
✖	Minor
	Significant
	Major










Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✘	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

4.13 Management and institutional factors





Name	Impact			Origin		Trend
4.13.1 Management system/Management plan						

Spatial scale - Area affected by the factor							
	Restricted						
	Localised						
	Extensive						
✕	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						
	Intermittent or sporadic						
	Frequent						
✕	On-going						
Impact - Impact on the attributes							
	Insignificant						
	Minor						
	Significant						
✕	Major						
Management response - Capacity of management to respond							
	High capacity						
✕	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Development over the last 6 years							
	Decreasing						
	Static						
✕	Increasing						

Name	Impact			Origin		Trend
4.13.2 Legal framework						
						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor

	Significant
✕	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing



Name	Impact	Origin	Trend
4.13.3 Governance	  	 	

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing







Name	Impact	Origin	Trend
4.13.4 Management activities	  	 	

Spatial scale - Area affected by the factor							
	Restricted						
	Localised						
	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						
	Intermittent or sporadic						
	Frequent						
	On-going						
Impact - Impact on the attributes							
	Insignificant						
	Minor						
	Significant						
	Major						
Management response - Capacity of management to respond							
	High capacity						
	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Development over the last 6 years							
	Decreasing						
	Static						
	Increasing						

Name	Impact	Origin	Trend
4.13.5 Financial resources			

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor

	Significant
✕	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing







Name	Impact	Origin	Trend
4.13.6 Human resources	  	 	
	  	 	

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.7 Low impact research/monitoring activities	  	 	

Spatial scale - Area affected by the factor							
	Restricted						
	Localised						
X	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						
	Intermittent or sporadic						
	Frequent						
X	On-going						
Impact - Impact on the attributes							
	Insignificant						
	Minor						
X	Significant						
	Major						
Management response - Capacity of management to respond							
	High capacity						
X	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Development over the last 6 years							
	Decreasing						
	Static						
X	Increasing						

4.17. Serial inscriptions (national or transnational)

4.17.1 - If your property is a serial inscription (national or transnational) please identify which components of the property are impacted by each factor

4.18. Prediction of the state of conservation at next cycle of Periodic Reporting.

4.18.1 - Please predict what the state of conservation of each attribute will be approximately 6 years from now (at the time of the next cycle of Periodic Reporting)

	Attribute	Preserved	Compromised	Seriously compromised	Lost
4.18.1.1	Tinnosbanen			X	
4.18.1.2	Rjukanbanen (incl. ferries and related infrastructure)		X		
4.18.1.3	Hydro power facilities and infrastructure	X			
4.18.1.4	Company towns	X			
4.18.1.5	Industrial/production facilities		X		

5. Protection and Management of the Property

5.1. Boundaries and Buffer Zones

5.1.1 - Are the boundaries of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The boundaries are **adequate to maintain** the property's Outstanding Universal Value

5.1.2 - Are the boundaries of the World Heritage property known and recognised?

The boundaries **are known** by the management authority **but are not known** by local communities/landowners

5.1.3 - Are the buffer zone(s) of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The buffer zones are **adequate** to maintain the property's Outstanding Universal Value

5.1.4 - Are the boundaries of the buffer zones known and recognised?

The buffer zones of the World Heritage property **are known and recognised** by the management authority **but are not known** by local communities/landowners

5.1.5 - Comments, conclusions and/or recommendations related to boundaries and buffer zones of the World Heritage property

5.2. Protective Measures

5.2.1 - Protective designation (legal, regulatory, contractual, planning, institutional and/or traditional).

Comment

The Planning and Building Act; The Cultural Heritage Act; zoning regulations Section 5b. Protective designation in the nomination file has extensive information about how protective designation is used in the legal context in Norway and how it is applied to the property (nomination file p.411 to 423)

5.2.2 - Please list any legislation and other measures (regulatory -including spatial planning- contractual, institutional or traditional) not included in 5.2.1 and indicate the category

2009, last emended in 2023 / Act relating to planning and the processing of building applications (The Planning and Building Act) / X / <https://lovdata.no/dokument/NL/lov/2008-06-27-71>

1979, last emended in 2023 / Act concerning the cultural heritage (Cultural Heritage Act) / X / <https://lovdata.no/dokument/NLE/lov/1978-06-09-50>

5.2.3 - Is the legal framework (i.e. legislation and/or regulation including spatial planning) adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

An **adequate legal framework** for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists **but there are some deficiencies in implementation**

5.2.4 - Is the legal framework (i.e. legislation and/or regulation) adequate in the buffer zone for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

The **legal framework** in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property **is inadequate**

5.2.5 - Is the legal framework (i.e. legislation and/or regulation) in the broader setting of the World Heritage property adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

The **legal framework** for the broader setting of the World Heritage property provides an **adequate basis for** effective management and protection of the property, contributing to the maintenance of its Outstanding Universal Value including conditions of Authenticity and/or Integrity

5.2.6 - Can the legal framework (i.e. legislation and/or regulation) be enforced?

There is **acceptable capacity/resources** to enforce legislation and/or regulation in the World Heritage property but some deficiencies of enforcement remain

5.2.7 - Please provide a short summary of how the legislation, including spatial planning and other regulation, works in practice

Normally the owner or developer takes contact with the municipality, which is first line authority in the case of PBL or with the county council, which is the first line authority in the case of the Cultural Heritage Act. From there, there is both guidance and formalia for applications. The need for impact assessments is also regulated by law, except IAs for WH. Section 5c. in the nomination file has extensive information on how enforcement of the legal protection works in practice(p.424 to 431)

5.2.8 - Comments, conclusions and/or recommendations about the information related to the measures taken to protect the World Heritage property

Not always easy to apply legislative tools or terminology to World Heritage context. It is an often-used argument in bureaucratic procedures that WH is a status and not a legal category, so it does not triggers law enforcement in other laws if the area is not protected by the Cultural Heritage Act or the PBL. Harmonisation between legal instruments to ensure protection of WH is necessary, the legal status of WH must be improved.

5.3. Management System/Management Plan

5.3.1 - Please check the box which most closely match the character of the governance and management system of the property

Public management system joint regional/local

If 'Other', please specify

5.3.2 - Management System: Please indicate which of the various management tools listed below are used to help protect the property.

Agreed 'Memorandums of Understanding' between different managing institutions, groups or others, including documents agreed with local communities for management

A management plan

An annual work plan or business plan

5.3.3 - Please give a brief description of the management system currently in place at your property

Described by the partnership agreement in detail. The municipalities of Vinje, Tinn and Notodden and the county council are members of the local WH council with representatives from both position and opposition parties as well as the top administrative leaders in each organisation. It has also 4 observers, national cultural heritage authority, visitor center, the local university and regional political committee for culture. It is a consensus-based body with no formal authority.

5.3.4 - Management Documents

Comment

The local WH council has aproved a first Managment Plan for the period 2016-2019 after the inscription on the list. It was updated for the period 2020-2023, approved by the council but didn't went for voting at some of the member organisations. A new version is planed to be up for voting in May 2023 for the period 2023-2026.

5.3.5 - Has any use been made of the 2011 Recommendation on the Historic Urban Landscape in developing policies and best practices for the protection of this property?

No use has been made of the 2011 Recommendation on the Historic Urban Landscape

5.3.6 - If the Historic Urban Landscape Recommendation has been used at this property, please describe briefly what has been done.

5.3.7 - Has any use been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property?

No use has been made of the World Heritage Policy for Climate Change

5.3.8 - If the Climate Change policy has been used, please briefly describe what has been done along with any research on the impacts of Climate Change on the property:

5.3.9 - Has any use been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property ?

No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties

5.3.10 - If the Strategy for Reducing Risks from Disasters at World Heritage Properties has been used, please briefly describe what has been done

5.3.11 - Rate the coordination between the various levels of administration (i.e. national/federal; regional/provincial/state; local/municipal etc.) involved in the management of the World Heritage property

There is **coordination** between the range of administrative bodies involved in the management of the property, **but it could be improved**

5.3.12 - Is the management system/plan adequate to maintain the property's Outstanding Universal Value?

The management system/plan is **only partially adequate** to maintain the property's Outstanding Universal Value

5.3.13 - Is the management system being implemented?

The management system is being **only partially implemented**

5.3.14 - Is there an annual work/action plan and is it being implemented?

An annual work/action plan **exists and many of its activities are being implemented**

5.3.15 - Does the management system include formal mechanisms and procedures that ensure participation and contribution of the following groups, living within or near the World Heritage property and/or buffer zone in management decisions that maintain the Outstanding Universal Value of the property?

		Not applicable	No mechanisms for participation	Some participation	Direct participation	Transformative participation in all relevant decision processes
5.3.15.1	Local communities			×		
5.3.15.2	Local authorities					×
5.3.15.3	Landowners in the property and the buffer zone			×		
5.3.15.4	Indigenous peoples	×				
5.3.15.5	Women	×				
5.3.15.6	Other specific groups			×		
	If you selected, 'Other specific groups' please specify	Local volunteer organisations				

5.3.16 - Please rate the cooperation/relationship between the World Heritage property managers/coordinators/staff and the following groups

		Not applicable	Non-existent	Poor	Fair	Good
5.3.16.1	Local communities					×
5.3.16.2	Local/Municipal authorities					×

5.3.16.3	Indigenous peoples	×				
5.3.16.4	Landowners					×
5.3.16.5	Women	×				
5.3.16.6	Youth/Children					×
5.3.16.7	Researchers					×
5.3.16.8	Local Visitors/Tourists				×	
5.3.16.9	National/International tourists				×	
5.3.16.10	Tourism Industry					×
5.3.16.11	Local businesses and industries					×
5.3.16.12	NGOs					×
5.3.16.13	Other specific groups					×
	If you selected 'Other specific groups', please specify	Local volunteer organisations				

5.3.17 - Please rate the extent to which the management system of your property contributes towards achieving the objectives of the World Heritage Committee's Policy for the Integration of a Sustainable Development Perspective into the Processes of the *World Heritage Convention*

		Not applicable	No contribution	Limited	Significant	Full achievement
5.3.17.1	The management system of the property contributes to gender equality	×				
5.3.17.2	The management system of the property provides ecosystem services/benefits to the local community (e.g. fresh air, water, food, medicinal plants)	×				
5.3.17.3	The management system of the property contributes to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status				×	
5.3.17.4	The management system of the property integrates a human rights-based approach		×			
5.3.17.5	The management system of the property contributes to fostering inclusive local economic development, and to enhancing livelihood			×		
5.3.17.6	The management system of the property contributes to conflict prevention, including respect for cultural diversity within and around the World Heritage property	×				

5.3.18 - Please provide further details on the ratings of the management system given in the table above

5.3.19 - Comments, conclusions and/or recommendations related to the management system/plan

Although the management system in itself doesn't refer or has specific measures either on social inclusion and equity or a human rights-based approach, the norwegian state functions already under these principles and these are the base for any work in the public sector.

6. Financial and Human Resources

6.1. Funding

6.1.1 - If your funding sources do not exactly fit those shown, put the relevant amounts against the funding type that most closely represents your situation, and use the comment box below to provide more details.

		Project costs	Running costs
6.1.1.1	Multilateral funding (GEF, World Bank, etc.)	0 %	0 %
6.1.1.2	Bilateral international funding	0 %	0 %
6.1.1.3	World Heritage Fund (International Assistance)	0 %	0 %
6.1.1.4	Contribution from other conventions and programmes	0 %	0 %
6.1.1.5	International donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.6	Governmental (national/federal)	57 %	39 %
6.1.1.7	Governmental (regional/provincial/state)	30 %	12 %
6.1.1.8	Governmental (local/municipal)	3 %	45 %
6.1.1.9	In-country donations (NGOs, foundations, etc.)	2 %	0 %
6.1.1.10	Individual visitor charges (e.g. entry, toilets, parking, camping fees, etc.)	0 %	0 %
6.1.1.11	Commercial activities (e.g. merchandising and catering, filming permit, concessions, etc.)	0 %	0 %

6.1.1.12	Other	8 %	4 %
		Total 100 %	Total 100 %

6.1.2 - Please comment here on any other aspects of funding sources not covered in the table above

Data from 2022 as basis for analysis, adapted to reflect also data we don't concretely have available. The buildings at the property are mostly privately owned, so "others" is the private contribution. Because there is not enough running budget, many of the running costs are dissolved in projects. Projects have 1-2 years financial support, what makes it difficult to invest in long term programmes as the ones related to education or capacity-building.

6.1.3 - Is the current budget sufficient to manage the World Heritage property effectively?

The available **budget is acceptable** but **could be further improved** to fully meet the management needs

6.1.4 - Are the existing sources of funding secure and likely to remain so?

The existing sources of funding are **secure over the medium-term** and **planning is underway to secure funding over the long-term**

6.1.5 - Comments, conclusion, and/or recommendations related to finance and infrastructure

The management system of the property is dependent on project grants for conservation, capacity building and development. Adm and running costs are also partly financed by yearly grants. Running of interpretation/visitor centre is financed by yearly support from national and local authorities (60/40%). An agreement formalizing the local authorities support to the visitor centre is in preparation. The site manager is used as source. More effective economic models for financing should be assessed.

6.1.6 - Estimate the distribution of men and women involved in the management, conservation, interpretation of the World Heritage properties and the extent to which they are drawn from local communities.

		From local communities %	From elsewhere %
6.1.6.1	Men	37 %	14 %
6.1.6.2	Women	20 %	29 %
		Total 57 %	Total 43 %

6.1.7 - Are available human resources adequate to manage the World Heritage property?

Human resources **partly meet** the management needs of the World Heritage property

6.1.8 - Considering the management needs of the World Heritage property, please rate the availability of professionals in the following disciplines

Conservation	Not available
Environmental sustainability	Poor
Community participation and inclusion	Not available
Risk preparedness	Poor
Capacity development and education	Poor
Administration	Good
Research and monitoring	Poor
Awareness raising and public information/communication	Not available
Marketing and promotion	Not available
Interpretation	Good
Visitor management/tourism	Poor
Enforcement (custodians, police)	Good

6.1.9 - Please rate the availability of training opportunities for the management of the World Heritage property in the following disciplines

Conservation	Fair
Environmental sustainability	Not available
Community participation and inclusion	Not available
Risk preparedness	Not available
Capacity development and education	Poor
Administration	Not available
Research and monitoring	Poor
Awareness raising and public information/communication	Not available
Marketing and promotion	Not available

Interpretation	Poor
Visitor management/tourism	Poor
Enforcement (custodians, police)	Not available

6.1.10 - Has any use been made of the World Heritage Strategy for Capacity Building at the property?

No use has been made of the World Heritage Strategy for Capacity Building

6.1.11 - If the World Heritage Strategy for Capacity Building has been used, please briefly describe what has been done.

6.1.12 - Are there site-specific capacity building plans or programmes that develop local expertise and that contribute to the transfer of skills for the conservation and management of the World Heritage property?

A site-based capacity building plan or programme has been developed but it is not implemented and skills are not being transferred

6.1.13 - Comments, conclusions and/or recommendations related to human resources, expertise and training

The real answer to 6.1.12 is that administration skills are adequate and transferred, not by a site-based capacity building plan or programme, but because management is done locally. Some technical skills are now part of a professional school programme with the intent to create more skilled external staff we can hire to projects. The root of this issue is the fact that all conservation is project-based and grant dependent on a yearly basis.

7. Scientific Studies and Research Projects

7.1 - Is there adequate knowledge (scientific or traditional) about the values and attributes of the World Heritage property to support planning, management and decision-making to ensure that Outstanding Universal Value is maintained?

Knowledge about the values and attributes of the World Heritage property is adequate

7.2 - Is there a planned programme of research at the property which is directed towards management needs and/or improving understanding of Outstanding Universal Value?

There is a small amount of research, but it is not planned

7.3 - Are results from research programmes publicly available and disseminated?

Research results are not shared at any level

7.4 - Comments, conclusions and/or recommendations related to scientific studies and research projects

8. Education, Information and Awareness Building

8.1 - Please rate the awareness and understanding of the existence and justification for inscription of the World Heritage property amongst the following groups

Local communities	Fair
Local/municipal authorities	Good
Indigenous peoples	Not applicable
Landowners	Fair
Women	Not applicable
Youth/children	Fair
Researchers	Fair
Local visitors	Fair
National/international tourists	Fair
Tourism industry	Fair
Local businesses and industries	Fair
NGOs	Fair
Other specific groups	Not applicable
If you selected 'Other specific groups', please describe	

8.2 - Does the property have a heritage education programme(s) for children and/or youth, that can contribute to a better understanding of heritage, promote diversity and foster intercultural dialogue?

There is a planned education and awareness programme for children and/or youth but it only partly meets the needs

8.3 - Who are the target audiences for education and awareness programmes at your property?

Youth/children

8.4 - Please rate the adequacy of the following visitor facilities and services at the World Heritage property for education, information, interpretation and awareness building

Visitor centre	Good
Site museum	Good
Information booths	Poor
Guided tours	Fair
Trails/routes	Poor
Printed information materials	Good
Online (website, social media, etc.)	Fair
Transportation facilities	Poor
Other	Not needed
If 'Other' is selected, please specify	

8.5 - Comments, conclusions and/or recommendations related to education, information and awareness building

Education and awareness programmes for other than children are limited/inexistent at the property, but Ad hoc initiatives are taken to different target groups. Interpretation is well structured and ensured by the visitor center and the local museum. A significant part of local communities and visitors still think that the site is inscribed in the WH list because of its relevance on what is known by "The heavy water war", this being the theme we should work more on clarifying through awareness b.

9. Visitor Management

9.1 - Please provide estimated annual visitor numbers (including national and international visitors) since the last Periodic Report

102875 / 62765 / 77041 / 81241 / 83498 /

9.2 - What information sources are used to collect visitor statistics?

Entry tickets and registries

9.3 - What is the average length stay of a visitor to the World Heritage property?

One day (no overnight stay)

9.4 - Please provide the source of information

2022 report Rjukan-Notodden Industrial Heritage Site Visitor Center

9.5 - What is the approximate average daily visitor expenditure? (Please provide an estimated monetary figure in USD)

100 / 20 / unable to get data / 15 / 15 / 15 /

9.6 - Please provide the source of information

No data found for question 9.5

9.7 - Does the management system/plan for the World Heritage property include a strategy with an action plan to manage visitors, tourism activity and its derived economic, socio-cultural and environmental impacts?

There is **no strategy** to manage visitors, tourism activity and its derived impacts on the World Heritage property

9.8 - Please provide any comments relating to the answer provided above in question 9.7

There is no visitor management strategy, and for the time being the only impact that this has created is that there is little revenue resulting from WH to the local community. The property has enough carrying capacity to develop the visitor numbers and would benefit from a visitor management strategy focusing in sustainably developing the visitation numbers.

9.9 - Is visitor use effectively managed to maintain the Outstanding Universal Value of the property?

There is **some management** of the visitor use of the World Heritage property

9.10 - Is the effectiveness of tourism management regularly monitored?

No

If a different system, please specify

9.11 - How does the tourism industry cooperate with the site management to improve visitor experiences and maintain the Outstanding Universal Value of the World Heritage property?

There is **limited cooperation** between those responsible for the World Heritage property and the tourism industry **to present the Outstanding Universal Value and increase appreciation**

9.12 - How well is the information on the Outstanding Universal Value of the property presented and interpreted?

The presentation and interpretation of the Outstanding Universal Value of the property is **acceptable but improvements could be made**

9.13 - At how many locations is the World Heritage emblem displayed at the property?

In **many locations** and **easily visible** to visitors

9.14 - How does visitor/tourism revenue (e.g. entry charges, permits) contribute to the management of the World Heritage property?

No fees are collected

9.15 - Are there locally driven sustainable tourism initiatives?

Yes

If 'Yes', please specify

There has been some initiatives from the local community as thematic guided tours and some merchandising

9.16 - Are the benefits of tourism shared with local communities?

Yes

If 'Yes', please specify

with local business, but with small impact and exponential room for improvement

9.17 - Comments, conclusions and/or recommendations related to visitation/tourism/public use of the World Heritage property

There is augmented number of visitors in the summer and virtually no visitors in the winter. There are few local initiatives related to tourism services/initiatives, but numbers are growing and the management motivates this small initiatives to apply for available grants and gives advice on viable business solutions to their ideas. We feel this small initiatives have significant positive impact in the local identity and feelings of ownership towards the WH.

10. Monitoring

10.1 - Is there a monitoring programme at the property directed towards management needs and/or towards improving the understanding of the Outstanding Universal Value?

There is a **small amount of monitoring**, but it is not planned

10.2 - Is necessary information available in order to define key indicators for measuring the state of conservation and are they used in monitoring how the Outstanding Universal Value of the property is being maintained?

Information on the values of the World Heritage property is **adequate** and **key indicators have been defined but monitoring of the status of indicators could be improved**

10.3 - Are key indicators defined and in place for the following principal aspects of the property?

	Extend of indicators	Not applicable	No indicators	Indicators have been defined but are not yet in use	Indicators are in place and in use since the last Periodic Reporting cycle
10.3.1	State of conservation				✗
10.3.2	Effectiveness of the management system		✗		
10.3.3	Character of governance		✗		
10.3.4	Appropriate synergy with other conservation designations		✗		
10.3.5	Contribution to sustainable development		✗		
10.3.6	Capacity development		✗		

10.4 - Please provide information on relevant key indicators adopted at the property

Indicators: -Physical condition -Function -Sight lines and scenic routes -Development pressure -Extreme weather events -Visitation statistics -Research -Owners participation/engagement The key indicators needs updating to answer to the new action plan and sustainable development goals.

10.5 - Please rate the level of involvement in monitoring of the following groups:

World Heritage managers/coordinators and staff	Fair
Local/municipal authorities	Poor
Local communities	Non-existent
Indigenous peoples	Not applicable
Landowners	Non-existent
Women	Not applicable
Researchers	Non-existent
Tourism industry	Non-existent
Local businesses and industry	Non-existent
NGOs	Non-existent
Other specific groups	Non-existent

10.6 - Has the State Party implemented relevant recommendations arising from the World Heritage Committee?

Implementation is underway

10.7 - Please provide comments relevant to the implementation of recommendations from the World Heritage Committee.

There was recommendations from the WH Committee at the time of inscription in 2015: Extending the Management Plan to include a risk preparedness strategy as proposed; Refining the Monitoring System to relate to the inventory/database. The implementation of these recommendations is underway.

10.8 - Comments, conclusions and/or recommendations related to Monitoring

The property needs a revised monitoring system and capacity to implement. Capacity meaning both staff and knowledge.

11. Identification of Priority Management Needs**11.1 - Identification of Priority Management Needs**

5.1	Boundaries and Buffer Zones	
5.1.2	The boundaries of the World Heritage property are known by the management authority but are not known by local communities/landowners	
5.1.4	The buffer zones of the World Heritage property are known and recognised by the management authority but are not known and recognized by local communities/landowners	
5.2	Protective Measures	
5.2.3	An adequate legal framework for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation	✗
5.2.4	The legal framework in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property is inadequate	
5.2.6	There is acceptable capacity/resources to enforce legislation and/or regulation in the World Heritage property but some deficiencies of enforcement remain	
5.3	Management System/Management Plan	
5.3.5	No use has been made of the Historic Urban Landscape Recommendation to develop policies and best practices for the protection of the property	
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	✗
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	✗
5.3.11	There is coordination between the range of administrative bodies involved in the management of the property, but it could be improved	
5.3.12	The management system/plan is only partially adequate to maintain the property's Outstanding Universal Value	✗
5.3.13	The management system at the property is only being partially implemented	
5.3.17	<ul style="list-style-type: none"> The management system of the World Heritage property does not integrate a human rights-based approach In a limited manner, the management system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood 	
6.1	Funding	
6.1.3	The available budget is acceptable but could be further improved to fully meet the management needs of the World Heritage property	
6.1.7	Human resources partly meet the management needs of the World Heritage property	
6.1.10	No use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	✗
6.1.12	A site-based capacity building plan or programme has been developed but it is not implemented and skills are not being transferred	✗
7	Scientific Studies and Research Projects	
7.2	There is a small amount of research in the World Heritage property but it is not planned	
7.3	Research results are not shared at any level	
8	Education, Information and Awareness Building	
8.2	There is a planned education and awareness programme for children and/or youth but it only partly meets the needs	✗
9	Visitor Management	
9.7	There is no strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property	✗
9.9	There is some management of the visitor use of the World Heritage property	
9.11	There is limited cooperation between those responsible for the World Heritage property and the tourism industry to present the Outstanding Universal Value and increase appreciation	
9.12	The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made	

10	Monitoring	
10.1	There is a small amount of monitoring at the World Heritage property, but it is not planned	✕
10.2	Information on the values of the World Heritage property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved	✕

Please select 0 more issues.

☒ Please save this question to reflect changes

12. Summary and Conclusions

12.1. Summary - Factors affecting the Property

12.1.1 - Summary - Factors affecting the Property

4.3	Services Infrastructures							
4.3.2	Renewable energy facilities	(ii) and (iv). The hydropower facilities are an attribute in the WH property.	Its use is positive.	in use	ongoing	NVE	none	
4.7	Local conditions affecting physical fabric							
4.7.2	Relative humidity	(iv); Wood buildings	no action for now	conservation reports when a case is identified	n/a	Cultural heritage authority at the county council	none	
4.7.3	Temperature	(ii) and (iv); Wood buildings and lakes in the core and buffer zone.	no local action. Global work to fight climate change. Condition reports on buildings if needed	conservation reports when a case is identified	n/a	Environment agency and cultural heritage authority at the county council. Owners.	none	
4.7.6	Water (rain/water table)	Landscape and buildings by humidity	report when a case is identified	Erosion monitoring	ongoing	County council for landscape erosion and classified building damage. Owners.	none	
4.8	Social/Cultural uses of heritage							
4.8.2	Society's valuing of heritage	(ii) and (iv) and all attributes as in our case this influences at a subjective level.	Information, knowledge sharing and capacity-building	no monitoring	ongoing	County council and municipalities	none	
4.8.5	Identity, social cohesion, changes in local population and community	(ii); Mainly company towns are affected by decrease of population, but also the industrial parks as the activity decreases.	work on place making	population numbers	ongoing	municipalities	none	
4.13	Management and institutional factors							
4.13.2	Legal framework	(ii) and (iv); All attributes	Use the ongoing revision of the legal framework as opportunity to stress the need of change and include concrete reference to World Heritage properties in the new Cultural Environment Law.	publishing of the law	ongoing	Directorate for Cultural Heritage (Riksantikvaren)	At the site and county council level we have participated as possible taking part in the hearings. We have communicated the need for more specific law references to WH individually and through our national WH association.	
4.13.4	Management activities	All	management plan	key indicators	3 years	The local world heritage council	the MP will be updated after receiving feedback from the reporting process.	
4.13.5	Financial resources	Mostly (ii) but all criteria and attributes.	Work towards a strengthened financial system for WH in Norway, and not grant-based support.	yearly grant amounts by the Directorate for Cultural Heritage.	ongoing	The local WH council	none	

4.13.6	Human resources	All	no action	number of HR working in the management of the WH property	n/a	The local WH council	none
--------	-----------------	-----	-----------	---	-----	----------------------	------

Summary - Factors affecting the Property **completed**

12.2. Summary - Management Needs

12.2.1 - Summary - Management Needs

5.2	Protective Measures				
		Actions	Timeframe	Lead agency (and others involved)	More info / comment
5.2.3	An adequate legal framework for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation	There is the need for the WH designation to have specific mention under the Plan and Building Law (PBL) and Cultural Heritage Act (Kulturmiljøloven) for the OUV of all norwegian WH sites to be effectively protected.	Ongoing revision of the Cultural environment law, but nothing about PBL, the last one being maybe the most important to the management of WH properties as they are enforced by the local authorities (municipalities); the sooner the better	the government	.
5.3	Management System/Management Plan				
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	no action	n/a	The Norwegian Environmental Agency	.
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	Site manager will apply for next ICCROM course on disaster risk management; action in MP's action plan	3 years	county council	.
5.3.12	The management system/plan is only partially adequate to maintain the property's Outstanding Universal Value	Revision of the management plan after receiving feedback from the periodic reporting cycle.	next 3 years	Local WH council	.
6.1	Funding				
6.1.10	No use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	Measure at the MP to prioritize capacity building	3 years	The local WH council	There are no allocated funds to produce this strategy or its activities.

6.1.12	A site-based capacity building plan or programme has been developed but it is not implemented and skills are not being transferred	There is the need to design a structured capacity building plan or programme	indetermined	The local WH council	.
8	Education, Information and Awareness Building				
8.2	There is a planned education and awareness programme for children and/or youth but it only partly meets the needs	Revision and implementation of the "World Heritage in the curriculum" project	3 years	The local WH council	.
9	Visitor Management				
9.7	There is no strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property	Implementation of VMAST	3 years	The local WH council	.
10	Monitoring				
10.1	There is a small amount of monitoring at the World Heritage property, but it is not planned	Revise and implement the monitoring system	3 years	The local WH council	.
10.2	Information on the values of the World Heritage property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved	No resources for action, but we'll try to start working harder on information to local communities. Maybe partnering with volunteer associations to implement monitoring?	Next 3 years	County council	.

Summary - Management Needs completed

12.3. Conclusions on the State of Conservation of the Property

12.3.1 - Following the analysis undertaken for this report, what is the current state of Authenticity of the World Heritage property?

The Authenticity of the World Heritage property **has been preserved**

12.3.2 - Following the analysis undertaken for this report, what is the current state of Integrity of the World Heritage property?

The Integrity of the World Heritage property **has been compromised** by factors described in this report

12.3.3 - Following the analysis undertaken for this report, what is the current state of the World Heritage property's Outstanding Universal Value?

The World Heritage property's Outstanding Universal Value **has been seriously impacted by factors described in this report, but this situation can be addressed, or is currently being addressed through management actions.**

12.3.4 - What is the current state of the property's other values?

Other important cultural and/or natural values are being **partially degraded** but the state of conservation of the World Heritage property has **not been significantly impacted**

12.3.5 - Comments. conclusions and/or recommendations related to the state of conservation of the property.

We have a serious situation with the degradation of Tinnosbanen, which is more than 50% of the transportation system component (the site has 4 components). The railway is now in critical condition of conservation. The line is owned by the State Party and has the status "traffic stop". No systematic annual maintenance nor repair, only minor sporadic measures. There is no fixed economy linked to the track, not even for vegetation clearing. The line is classified but the State doesn't follow the la

13. Impact of World Heritage Status

13.1 - Please rate the impacts of World Heritage status of the property in relation to the following areas

Conservation	Very positive
Research and monitoring	Positive
Management effectiveness	Positive
Quality of life for local communities and indigenous peoples	No impact
Recognition	Positive
Education	Positive
Infrastructure development	No impact
Funding for the property	Very positive
International cooperation	Positive
Political support for conservation	Positive
Legal/Policy framework	Very positive
Advocacy	Positive
Institutional coordination	Positive
Security	Not applicable
Gender equality	Not applicable
Provision of ecosystem services/ benefits to local communities	Not applicable
Social inclusion and equity, and improvement of opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion, or economic or other status	No impact
Fostering inclusive local economic development and enhancing livelihood	No impact
Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	Not applicable
Other	Not applicable
If 'Other', please specify	

13.2 - Comments, conclusions and/or recommendations related to World Heritage status and its impacts

The WH status is a great opportunity to improve the quality of life of the local communities, but this doesn't happen by itself. It has to be a conscient and structured work towards these goals: Fostering inclusive local economic development and enhancing livelihood; Social inclusion and equity, and improvement of opportunities for all; Quality of life for local communities.

14. Good Practice in the Implementation of the World Heritage Convention

14.1 - Example of good practice in World Heritage protection, identification, conservation or management at the property level

One good example is Mannheimen, a high value building in the WH property that was in decadent condition. Built by Hydro in 1913 as a boarding house for young man, it was used and reused in various forms until becoming a refugee center. It had just got funds for exterior conservation measures when it burned down in 2017. According to Historical England 2019 Heritage Counts Report, retrofitting will reduce in average 61% of carbon emissions in a historic building, but even more than that, it can emit less carbon than a new building – "the greenest buildings are the ones already built" (Carl Elefante). It is easy to imagine the huge amount of embodied carbon in this building. Thanks to a public-public partnership, the building was restored and retrofitted into state-of-the-art care apartments for citizens that need extra attention. Here the authorities for the cultural heritage worked very closely with the municipality to enable maximum confort for the ones moving in with minimum damage to the historical values. For example the original door was installed, but with a system enabling authomatic opening for the wheelchairs. This building is now called "The Diamant" of the town and the project rehabilitated the whole social fabric of that urban area.

14.2 - Define which topics are covered by this example of best practice at the property level

Sustainable Development
Synergies
State of Conservation
Management

15. Assessment of the Periodic Reporting Exercise

15.1. Relevance of Periodic Reporting

15.1.1 - Has the Periodic Reporting process improved the understanding of the following?

Management effectiveness to maintain the Outstanding Universal Value
Monitoring and reporting

15.1.2 - Please rate the follow-up to conclusions and recommendations from previous Periodic Reporting exercise by the following entities

State Party	Not needed
Site Managers	Not needed
UNESCO World Heritage Centre	Not needed
Advisory Bodies (ICOMOS, IUCN, ICCROM)	Not needed

15.2. Use of Data

15.2.1 - How do the authorities in charge of the property plan to use the data recorded from this cycle of Periodic Reporting?

Revision of priorities/strategies/policies for the protection, management and conservation of heritage
Update of management plans
Fundraising
Awareness raising

15.2.2 - Comments on use of data from the Cycle of Periodic Reporting

It is a valuable self assessment tool and a great knowledge base to improve management and focus on the identified issues.

15.3. Timing and resources

15.3.1 - Entities involved in the filling out of this online questionnaire (tick as many boxes as applicable)

Governmental institutions responsible for cultural and natural heritage
Site Manager/Coordinator World Heritage property staff

15.3.2 - Has a gender balanced contribution and participation been considered in the filling out of this questionnaire?

Gender balance has **not been explicitly** considered or implemented in the process.

15.3.3 - Were you given adequate time (i.e. roughly ten months) to gather necessary information and to fill in this questionnaire?

No

15.3.4 - Please estimate the time (working hours) needed to complete this questionnaire

50 hours / 70 hours / 15 hours /

15.3.5 - Did you mobilise any additional resources to fill out this questionnaire?

	Additional resources	No	Yes
15.3.5.1	Human resources		×
15.3.5.2	Financial resources for organizing consultation meetings/ training	×	

15.4. Format and content of the Periodic Report

15.4.1 - How accessible was the information required to complete this questionnaire?

Not all required information was accessible.

15.4.2 - Was the questionnaire easy to use and clear to understand?

		Very Difficult	Difficult	Easy	Very easy
15.4.2.1	Ease of use of questionnaire			×	
15.4.2.2	Clarity of questions			×	

15.4.3 - Please provide suggestions for improvement of the Periodic Reporting questionnaire

"working comments" field for the questions, specially at chap. 4. Questions referring to previous questions like chapter 12 should have buttons that link directly to the questions it refers to. Each state party should initiate the reporting cycle by going through the whole questionnaire with the WH properties and inform where the data to answer correctly to the questions is. Each country has different institutions that have different sets of data and this should be part of the national workshop

15.5. Training and Guidance

15.5.1 - Please rate the level of support in terms of training and guidance from the following entities in completing this questionnaire

UNESCO World Heritage Centre	Fair
UNESCO (other sectors/field offices)	No support
UNESCO National Commission	No support
ICOMOS International	No support
IUCN International	No support
ICCROM international/regional	No support
ICOMOS national/regional	No support
IUCN national/regional	No support

15.5.2 - Please rate the level of support for completing the Periodic Reporting questionnaire from the following entities

UNESCO World Heritage Centre	No support
State Party Representative (national Focal Point)	Fair
UNESCO other sectors (e.g. field office)	No support
National Commission for UNESCO	No support
ICOMOS International	No support
ICCROM International/regional	No support
ICOMOS national/regional	No support
IUCN national/regional	No support
IUCN International	No support

15.5.3 - Were the online training resources prepared by the World Heritage Centre regarding Periodic Reporting adequate for you to complete this questionnaire?

Yes

15.5.4 - If you found that the online training resources were not adequate, what changes would you like to see implemented?

15.6. Actions that will require formal consideration by the World Heritage Committee

15.6.1 - Summary of actions that will require formal consideration by the World Heritage Committee

- **Statement of Outstanding Universal Value for the property as adopted by the World Heritage Committee**

Reason for update: Outdated information on the protection and management requirements. Applicable instruments are listed in chapter 5. The site can come with an updated version if the directorate (national authority) wishes.

Changes to these items will need to go through the proper processes.

15.7. Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise

15.7.1 - Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise

15.7.2 - Thank you for having filled in all the questions. Please contact your National Focal Point for validation.