

**Appendix 1. Assessment of impact on nature and environment during construction and operation of a hydropower plant at Tasersiaq and from other human activities in the area. The C/O indicates whether impact is mainly during construction (grey) or operation (hatched) or in both phases (hatched grey).**

Parameter	Potential impact	HP (Hydropower) M (Mineral) H (Hunting) T (Tourism)	C/O	Cause	Relevance		Type of impact		Significance		Effect (direct/ indirect)	Impact duration (Short or long term)	Reversibility (reversible/ irreversible)	Mitigation	Studies or monitoring needed
					(relevant/ irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
<b>Mammals</b>															
	Increased disturbance			Construction of buildings, plant and infrastructure	R	R	-	-	1	1	Direct	Short	Reversible	Avoid construction work in caribou calving areas during 20 May - 20 June	Mapping of caribou calving areas.  Study the reaction of caribou towards plant and infrastructure, if essential caribou areas are affected by these constructions.
		HP, M													
		M		Noise and traffic related to diamond activities	R	R	-	-	1	1	Direct	Long	Reversible		
		HP, M													
				Increased air traffic during a construction and operation phase	R	R	-	-	3	3	Direct	Long	Reversible	Regulation of flying altitude over sensitive areas. Possibly in predetermined flight corridors	
		HP, M													
				Increased access to previously undisturbed areas by established work/access road	R	R	-	-	3	3	Direct	Long	Irreversible	Entry restrictions in the area	
		HP, M, T													
				Increased hunting and recreational activities by people associated with the construction phase	R	R	-	-	3	3	Indirect	Short	Reversible	Hunting regulations	
		HP, M													
				Increased hunting and recreational activities by people associated with the operation phase	R	R	-	-	3	3	Indirect	Long	Reversible	Hunting regulations	
		HP, M													
	Flooding of foraging areas	HP		Construction of hydropower reservoir	IR	IR									
	Hindrance of dispersal	HP		Construction of hydropower reservoir	IR	IR									

Parameter	Potential impact	HP (Hydropower) M (Mineral) H (Hunting) T (Tourism)	C/O	Cause	Relevance		Type of impact		Significance		Effect	Impact duration	Reversibility	Mitigation	Studies or monitoring needed
					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
Muskox		HP		Hydropower transmission lines	R	R	-	-	1	1	Direct	Long	Irreversible	Place transmission lines not obstructing caribou dispersal	Mapping of main caribou dispersal routes
		HP, M		Construction of harbour and roads	R	R	-	-	1	1	Direct	Long	Irreversible	Place harbour and roads not obstructing caribou dispersal	Mapping of main caribou dispersal routes
	Increased disturbance	HP, M		Construction of buildings, plant and infrastructure	R	R	-	-	1	1	Direct	Short	Reversible		
		M		Noise and traffic related to diamond activities	R	R	-	-	1	1	Direct	Long	Reversible		
		HP, M		Increased air traffic during the construction and operation phase	R	R	-	-	3	3	Direct	Long	Reversible	Regulation of flying altitude over sensitive areas. Possibly in predetermined flight corridors	
		HP, M, T		Increased access to previously undisturbed areas by established work/access road	R	R	-	-	3	3	Direct	Long	Irreversible	Entry restrictions in the area	
		HP, M		Increased hunting and recreational activities by people associated with the construction phase	R	R	-	-	3	3	Indirect	Short	Reversible	Hunting regulations	
		HP, M		Increased hunting and recreational activities by people associated with the operation phase	R	R	-	-	3	3	Indirect	Long	Reversible	Hunting regulations	
	Flooding of foraging areas	HP		Construction of hydropower reservoir	IR	IR									
	Hindrance of dispersal	HP		Construction of hydropower reservoir	IR	IR									
	HP		Hydropower transmission lines	R	R	-	-	1	1	Direct	Long	Irreversible	Place transmission lines not obstructing muskox dispersal	Mapping of main dispersal routes of muskoxen	

Parameter	Potential impact	HP (Hydropower) M (Mineral) H (Hunting) T (Tourism)	C/O	Cause	Relevance		Type of impact		Significance		Effect	Impact duration	Reversibility	Mitigation	Studies or monitoring needed
					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
<b>Harbour seal</b>		HP, M		Construction of harbour and roads	R	R	-	-	1	2	Direct	Long	Irreversible	Place harbour and roads not obstructing muskox dispersal	Mapping of main dispersal routes of muskoxen
	Increased disturbance keeping muskoxen away from archaeological sites and vulnerable vegetation	T, H		Increased tourism and hunting in the Paradise valley	R	R	+	+	1	1	Indirect	Long	Reversible		
	Disturbance / oil pollution	HP, M		Shipping, oil spills and accidents	R	R	-	-	2	2	Direct	Long	Irreversible	Protection of harbour seal haul-out sites	Estimation of population size, distribution and reproduction in Søndre Strømfjord
		HP, M		Construction of harbour	R	R	-	-	1	1	Direct	Long	Irreversible	Protection of harbour seal in the vicinity of the harbour. Construction work should be conducted in September-April	Estimation of population size, distribution and reproduction in Søndre Strømfjord
	Increased hunting	HP, M, H		Increased human activities on fiords	R	R	-	-	3	3	Direct	Long	Reversible	Hunting regulations	
<b>Birds</b>															
Breeding birds in general	Attraction of predators (arctic fox and raven)	HP, M, H		Increased predator feeding opportunities due to deposition of garbage etc.	R	R	-	-	1	1	Indirect	Long	Irreversible	Quick and efficient disposal of all garbage and waste products	
	Increased disturbance at spring staging and moulting areas	HP, M		Construction of infrastructure (roads, air fields, transmission lines and harbour)	R	R	-	-	2	2	Direct	Long	Irreversible	Avoid construction work near staging areas between 1 May and 20 May	Locate spring staging and moulting areas, and areas used after moulting by the geese
		HP, M		Increased air traffic during construction and operation	R	R	-	-	3	3	Direct	Long	Reversible	Regulation of flying altitude over staging and moulting areas. Possibly in predetermined flight corridors	Locate spring staging and moulting areas, and areas used after moulting by the geese
		HP, M		Increased access to previously undisturbed areas	R	R	-	-	1	1	Direct	Long	Irreversible	Entry restrictions in relevant areas	

Parameter	Potential impact	HP (Hydropower) M (Mineral) H (Hunting) T (Tourism)	C/O	Cause	Relevance		Type of impact		Significance		Effect	Impact duration	Reversibility	Mitigation	Studies or monitoring needed
					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
White-fronted goose and Canada goose		HP, M		Increased hunting and recreational activities by people associated with the construction phase	R	R	-	-	2	2	Direct	Short	Reversible	Public information addressing the importance of geese staging and moulting areas	
		HP, M		Increased hunting and recreational activities by people associated with the operation phase	R	R	-	-	2	2	Direct	Long	Irreversible	Public information addressing the importance of geese staging and moulting areas	
	Flooding of foraging areas	HP		Construction of hydropower reservoir	R	R	-	-	1	1	Direct	Long	Irreversible		Study whether geese utilise the reservoir area for foraging
	Increased mortality	HP		Collision with transmission lines	R	R	-	-	1	1	Direct	Long	Irreversible		
	Modification of staging and moulting areas	HP, M		Construction of roads, buildings, plant, air field and transmission lines	R	R	-	-	1	1	Direct	Long	Irreversible	Avoid constructions near staging and moulting areas	Locate spring staging and moulting areas
Harlequin duck	Increased disturbance at breeding sites	HP, M		Construction of roads, buildings, plant, air field, harbour and transmission lines	IR	IR									
		HP, M		Increased air traffic during construction and operation	R	R	-	-	1	1	Direct	Long	Reversible	Regulation of flying altitude over breeding sites. Possibly in predetermined flight corridors	Investigate the effect of low-flying airplanes and helicopters on breeding harlequin ducks
		HP, M, T		Increased access to previously undisturbed areas	R	R	-	-	2	2	Direct	Long	Irreversible	Regulation of access to the Paradise Valley	Confirm whether the harlequin duck breed in the Paradise Valley
	Modification of breeding sites	HP		Alteration in watercourse of rivers due to construction of hydropower reservoir	IR	R		+		2	Indirect	Long	Irreversible		Identify the importance of silt in rivers and streams for the prey availability of harlequin duck
Great northern diver	Increased disturbance at breeding sites	HP, M		Construction of roads, buildings, plant, air field, harbour and transmission lines	R	R	-	-	1	1	Direct	Long	Irreversible		
		HP, M		Increased air traffic during construction and operation	R	R	-	-	1	1	Direct	Long	Reversible	Regulation of flying altitude over breeding sites. Possibly in predetermined flight corridors	

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					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
		HP, M, T		Increased access to previously undisturbed areas	R	R	-	-	1	1	Direct	Long	Irreversible	Entry restrictions in sensitive areas	
	Modification of breeding sites	HP		Large and frequent changes in water level in reservoir lake	IR	IR									
White-tailed eagle, gyrfalcon and peregrine falcon	Increased disturbance at breeding sites	HP, M		Construction of roads, buildings, plant, air field, harbour and transmission lines	R	R	-	-	1	1	Direct	Long	Irreversible	Avoid disturbance near nest sites during the breeding season	Map current raptor nesting sites within the study area
		HP, M		Increased air traffic during construction and operation	R	R	-	-	1	1	Direct	Long	Reversible	Avoid low altitude flying near nest sites during the breeding season	
		HP, M, T		Increased access to previously undisturbed areas	R	R	-	-	1	1	Direct	Long	Irreversible	Entry restrictions in sensitive areas	
	Competition for nest sites	HP, M, H		Increased number of carcasses and waste deposits may increase breeding population of ravens in the area, and hence increase competition for suitable nesting sites	R	R	-	-	2	2	Indirect	Long	Irreversible	Hunters can remove entire animals after they have been shot, i.e. carcasses are not left for raven. Or drive hunting with communal gathering of shot animals	Map nesting sites of the birds of prey, and monitoring immigration of ravens in the area
		HP, M		Construction of roads, buildings, plant, air field, harbour and transmission lines	IR	IR									
Gulls and auks	Increased disturbance at breeding sites	HP, T		Cruise ships and other ship traffic on Evighedsfjorden	IR	R				2	Direct	Long	Reversible	Follow current rules for traffic and noise near gull and auk colonies	
		HP, M		Increased air traffic during construction and operation	IR	IR									
		HP, M, T		Increased access to previously undisturbed areas	IR	IR									
	Oil pollution	HP, M, T		Oil spills from tanks, pipes or ships	IR	R				3	Indirect	Short	Reversible	Adopt international standards for shipping and current regulations for handling of oils at sea	
		HP, M		Construction of roads, buildings, plant, air field, harbour and transmission lines	IR	IR									
<b>Fish</b>	Modification of spawning areas and general habitat	HP, M		Pollution of rivers and fiords by wastewater from workcamp and operating plant	R	R	-	-	1	1	Direct	?	Reversible	Avoid discharge of sewage to lakes and rivers	

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					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
Artic char		HP		Alteration in watercourse of the rivers due to construction of hydropower reservoir	R	R	?	?	?	?	Direct	Long	Reversible	Determination of the minimum water level in the Sarfartoq River	Is clear tributaries to the silty part of Sarfartoq used as spawning areas?  Will low water level in the river result in total freezing during winter, and thus obstruct the dispersal of char?
	Hindrance of dispersal	HP, M		Construction of roads cross rivers, and driving with vehicles and machines in rivers	R	R	-	-	1	1	Direct	?	Reversible	Ensure free water passage in rivers crossed by vehicles and machines	
Capelin	Modification of spawning areas and general habitat	HP, M, T		Shipping and oil spills	R	R	-	-	1	3	Direct	Short	Reversible	Protection of known capelin spawning areas in case of oil spills	
		HP		Changed silt conditions in fiords	IR	IR									
<b>Flora</b>															
Rare plants and plant communities	Destruction of plant habitats	HP, M		Construction of roads, buildings, plant, air field, harbour and transmission lines	R	R	-	-	1	1	Direct	Long	Reversible/ Irreversible depending on the habitat	Utilise only heavy machinery off-road during winter when surfaces are frozen	Mapping of rare plants and important plant communities in the area
														Use helicopters and/or vehicles with special tires in more sensitive vegetation areas	Detailed vegetation mapping can ensure preservation of the most important plant areas during a planning phase
		HP, M		Permafrost breakdown/ thermokarst and wind breaks in terrain	R	R	-	-	1	1	Direct	Long	Irreversible	Utilise helicopters and/or vehicles with special tires in areas with sensitive/rare vegetation	Identify areas with increased risk of permafrost breakdown

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					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
		HP, M		Changes in snow cover due to e.g. dust on snow (reduced reflection) or accumulation of snow at roads, buildings, pipelines etc	R	R	-	-	1	1	Direct	Long	Reversible	Application of dust binder on roads	
	Desiccation of wet plant communities with unique flora	HP, M		Alteration in watercourse of rivers due to construction of hydropower reservoir, or drainage of lakes in relation to diamond exploitation	R	R	-	-	1	2	Direct	Long	Reversible	Reestablishment of wet plant communities	Mapping of wet plant communities
<b>Landscape</b>															
	Alteration of terrain and increased usage of previously undisturbed landscapes	HP, M		Construction of roads, buildings, dams, plant, air field, harbour and transmission lines	R	R	-	-	3	3	Direct	Long	Irreversible	Minimise driving off-roads except when the ground is frozen. Drive on frozen lakes or use transport by boat on lakes  Establishment of work camps etc. in dry and rocky areas  Utilise helicopters and vehicles with special tires in the most sensitive areas	See "Flora" and "Culture and archaeology"
		HP, M		Deposition of mine tailings, waste rock and rubble from mining, construction of headrace tunnels, levelling of terrain etc	R	R	-	-	2	2	Direct	Long	Irreversible	"Terrain models" for levelling of terrain with rock material  Utilise excavated materials for piers etc.  Deposit surplus material in areas resulting in minimum effects on the landscape  Reestablishment of areas	Identify the volumes of waste rock/rubble needed for deposition, and where to deposit these volumes in order to minimise impact on plants and cultural remains

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					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
Scenic value		HP, M		Breaking of rock during mineral exploitation, and establishment of gravel pits etc during construction work	R	R	-	-	2	2	Direct	Long	Irreversible	"Terrain models" for levelling with rock material  Reuse of rock material from construction of headrace tunnels, harbour etc.  Establish possible gravel pits in areas with large volumes of gravel, and resulting in minimum impact on the landscape  Reestablishment of areas	Identify areas with usable materials (rock/gravel/sand)
		HP		Deposit/disposal of excavated silt from the dammed Tasersiaq	R	R	-	-	2	2	Direct	Long	Irreversible	Reestablishment of areas	Identify the need for excavation of silt and estimate potential volumes hereof, together with possibilities for disposal  Identify whether Lake Tasersiaq represent a central resource for core drilling / climatic research  Monitoring impact of deposited silt in the landscape
	Increased erosion of landscape	HP, M		Alteration/increase in water run-off due to road construction and other actions resulting in compressed surfaces, or due to changed drainage in local areas	R	R	-	-	1	1	Inddriekte	Long	Irreversible	Contolng the water run-off	Identify areas with increased risk of erosion, wind breaks, permafrost breakdown / thermokarst
		HP		Lowering of shore bound ice during winter in Lake Tasersiaq	R	R	-	-	1	1	Direct	Long	Irreversible		



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					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
		HP, M, T		Traffic resulting in wear and tear on terrain and vegetation cover with resulting permafrost breakdown	R	R	-	-	1	1	Inddriekte	Long	Irreversible	Establish work roads "insulated" with gravel in relation to permafrost  Used helicopters and vehicles with special tires in sensitive areas	
	Wind breaks in terrain – destruction of plant communities / erosion	HP, M, H, T		Wear and tear of vegetation in sandy/dry areas by ATVs and snow mobiles	R	R	-	-	1	1	Inddriekte	Long	Irreversible	Create marked tracks in order to minimise "random" driving in the landscape	
	Alteration of coastal aspects (build up and breakdown of river deltas)	HP		Alteration of marine recipient of silty water	IR	R		-		1	Inddriekte	Long	Irreversible		Study changes in silt deposits in relation to the current depositions in Søndre Strømfjord and Evighedsfjorden
<b>Water</b>															
	Decreased volumes of silt being discharged into rivers	HP		Alteration of river courses due to construction of water reservoir at Tasersiaq	R	R	+	+	2	3	Direct	Long	Irreversible		Identify possible advantages of changed silt conditions
	Alteration of marine environment in the fiords, and possible contamination of rivers	HP		Alteration in volumes of silt being discharged into fiord systems due to construction of dams at Tasersiaq	IR	R					Direct	Long	Irreversible		Estimate the magnitude of changed silt sedimentation in Evighedsfjorden and Søndre Strømfjord  Verify existence of unique marine environments in the two fiords, and whether they will be sensitive to altered silt deposition.
		HP, M		Percolate of waste deposits from work camp	R	R	-	-	1	1	Indirect	Short	Reversible	Differential waste management reducing volume of environmental pollutants in waste deposits and secure disposal of pollutants	Monitor nutritive substances and environmental pollutants in recipients

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					(relevant/irrelevant)		(+/-)		(0/1/2/3)							
					North	South	North	South	North	South						
Surface waters, lakes, rivers and fiords		HP, M		Discharge of wastewater from work camp	R	R	-	-	2	2	Indirect	Short	Reversible	Wastewater treatment and reduction in volumes of environmental pollutants discharged	Monitoring nutritive substances and environmental pollutants in recipients	
		HP, M		Leaching of metals from deposited waste rock and mine tailings	R	R	-	-	1	1	Indirect	Long	Irreversible	Discharge of wastewater into recipient with frequent water renewal	Leaching may be reduced by adding lime or other substances	Analyse deposited rock material for sulfide/pyrite etc that may increase leaching of metals
		HP, M		Pollution by spills of fuel and other environmental pollutants	R	R	-	-	1	1	Indirect	Short	Reversible	Safe storage and handling of hazardous substances and materials	Monitoring nutritive substances and environmental pollutants in recipients	
		HP		Increased leakage of mercury from banks of Tasersiaq due to frequent changes in water level	R	R	-	-	?	?	Indirect	Long	Irreversible	Assessment of potential impact of utilised chemicals and materials	Monitoring metals in recipients	
		HP, M		Water supply to work camp	R	R	-	-	1	1	Indirect	Long	Reversible		Analyse the risk of mercury leakage from banks	
	Reduced water levels in rivers and lakes	HP		Altered watercourse of rivers due to construction of hydropower reservoir	R	R	-	-			Direct	Long	Reversible			
		HP		Reduced oil consumption for power/heating through use of surplus energy from hydropower plant	R	R	+	+	1	1	Direct	Long	Reversible			
	HP, M		Emissions from thermal power station and dust from traffic and work processes	R	R	-	-	1	1	Indirect	Short	Reversible	Application of dust binder			

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					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
<b>Culture and archaeology</b>															
<b>Archaeological remains</b>	Damage of archaeological remains	HP		Rising and lowering of water level	R	R	-	-	2	2	Direct	Long	Irreversible		Detailed study of the archaeological remains in the area
		HP		Continuous excavation of silt deposits from reservoir lake and desposition hereof	R	R	-	-	2	2	Direct	Long	Irreversible		Monitoring wear and tear on important remains identified in the area
		HP, M, H, T		Increased traffic in the area with resulting wear and tear of remains as well as collection hereof	R	R	-	-	1	1	Direct	Long	Irreversible	Information on and protection of archaeological remains, and guidelines for traffic near remains	
		HP		Changes in the course of rivers may result in desiccation of moist remains	R	R	-	-	1	2	Direct	Long	Reversible		
		HP, M		Construction of roads, headrace tunnels, gravel pits etc	R	R	-	-	3	3	Direct	Long	Irreversible	Important archaeological remains should be taken into consideration during the construction phase to ensure increased protection	
<b>Health and population</b>															
<b>Health</b>	Reduced air emissions and noise from power plant	HP		Reduced oil consumption for power/heating through use of surplus energy from hydropower plant	R	R	+	+	1	1	Direct	Long	Reversible		
	"Cultural alterations" and stress	HP, M		Influx of foreign labour and culture during construction and operation	R	R	-	-	2	2	Indirect	Short	Reversible	Limit the access of workers to towns and settlements	
	Asthma and respiratory diseases due to increased dust	HP, M		Wind breaks in terrain, desiccation of wet areas and deposition of silt	R	R	-	-	1	1	Indirect	Short	Irreversible		
<b>Recreational activities and hunting</b>	Increased access to areas suitable for hunting, angling and other recreational activities	HP, M		Work and access roads increase the accessibility of areas	R	R	+	+	2	2	Indirect	Long	Reversible		
	Increased interest in building of cottages	HP, M		Easy access for establishment of cottages near work and access roads	R	R	+	+	2	2	Indirect	Long	Reversible	Regulation and central planning of recreational cottages	

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					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
	Obstruction of primary tracks for dog sledges and snow mobiles	HP, M		Construction of plant, buildings, infrastructure, mining etc.	R	R	-	-	1	1	Indirect	Long	Reversible		
<b>Regional development / Enterprises</b>															
	Obstruction of primary tracks for dog sledges and snow mobiles	HP, M		Construction of plant, buildings, infrastructure, mining etc.	R	R	-	-	1	1	Indirect	Long	Reversible		
	Altered possibilities for rafting	HP		Changed watercourse of and reduced water level in rivers	R	R	-	-	1	1	Indirect	Long	Reversible		
	Altered perception of the landscape for tourism and trophy hunting in otherwise pristine nature	HP, M		Construction of plant, buildings, infrastructure, mining etc.	R	R	-	-	2	2	Direct	Long	Irreversible	Plant, buildings and transmission lines can be architecturally adapted to the landscape in order to reduce their conspicuousness	
	Reduced scenic value for cruise ships	HP		Construction of buildings and transmission lines at Evighedsfjorden and/or Søndre Strømfjord	R	R	-	-	1	1	Indirect	Long	Reversible		Quantify the traffic of cruise ships on Evighedsfjorden, and identify how hydropower plant and associated infrastructure will influence the aesthetic value of the area
<b>Tourism</b>	Reduced access for cruise ships in Evighedsfjorden	HP		Increased volumes of freshwater in Evighedsfjorden will result in increased ice formation	IR	R		-		1	Indirect	Long	Reversible		Quantification of current ice volumes in the fiord and its importance for cruise ships
	Increased tourism in the area	HP, M		Hydropower plant and mineral activities may become tourist attractions  Easier access to the area through roads with increased possibility of activities such as angling in the Paradise Valley	R	R	+	+	1	1	Indirect	Long	Reversible		
Export of ice/water	Pollution of ice/water suitable for export	HP, M		Air emissions, spills and leakage from human activities	R	R	-	-	1	1	Indirect	Short	Reversible		

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					(relevant/irrelevant)		(+/-)		(0/1/2/3)						
					North	South	North	South	North	South					
Other enterprises	Increased sales and employment	HP, M, T		Need for labour and sales of local products (crafts etc.)	R	R	+	+	2	2	Indirect	Long	Reversible		
	Establishment of other industries, e.g. brickyard	HP		Silt/clay from the local area may be processed on a brickyard getting its energy from hydropower plant	R	R	+	+	1	1	Indirect	Long	Reversible	Investigate whether local silt/clay can be used for brick and tile production	