



Interreg



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Aurora

Market report 2023-2030

**Sustainable construction and
build environment in arctic
climate**

2023-09-06

11/3/2023



Introduction

- This market report is a part of the project SCABEAC which are an Interreg project with the goal to strengthen the collaboration between northern Finland, Norway and Sweden within the construction sector.
- The market report gives an overview of planned construction and infrastructure projects north of Sweden, Finland and Norway within the years. 2023-2030.
- The goal is to raise awareness of ongoing and potential projects. The target group are industries, universities and decision makers.
- Project size approximately > 30 million euro .
- The market report will be updated twice a year.



Markets that are covered



INDUSTRY INVESTMENTS



BUILDINGS



INFRASTRUCTURE

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SCABEAC - Sustainable
Construction and Build
Environment in Arctic Climate

**FOR SUSTAINABLE GROWTH
AND A COMPETITIVE
CONSTRUCTION SECTOR**



Link to project website [here!](#)

Finland



Infrastructure

Hailuoto Causeway

Description To build a causeway between Riutunkari in Oulu and Huikku on Hailuoto Island. The causeway will replace the current ferry service. The causeway will be approximately 8.4 kilometers long, and it will consist of a road running on top of an embankment and long bridges in Huikku and Riutunkari.

Where Oulu

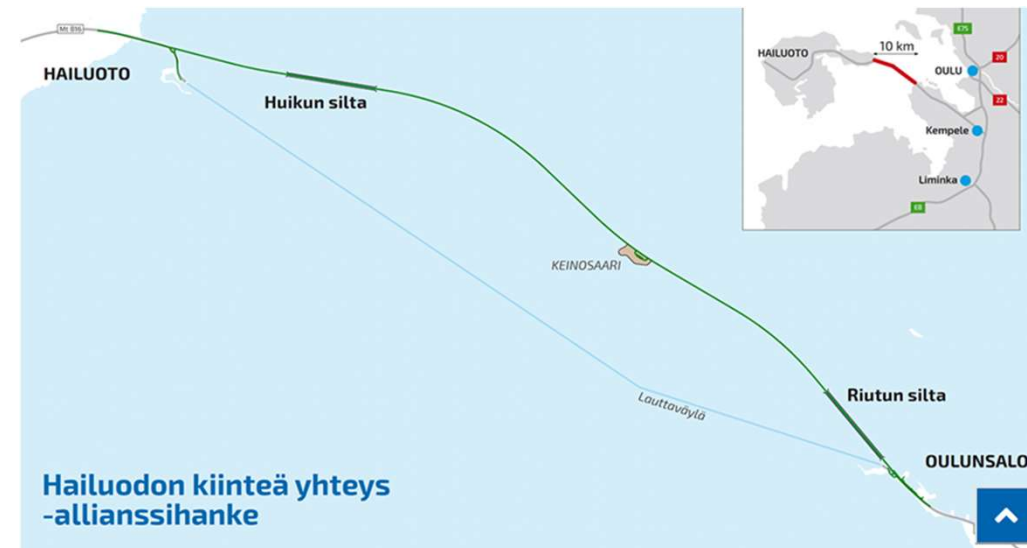
Timeline Construction phase to start at the end of year 2023.

Status (phase) Construction Engineering to start May 2023.

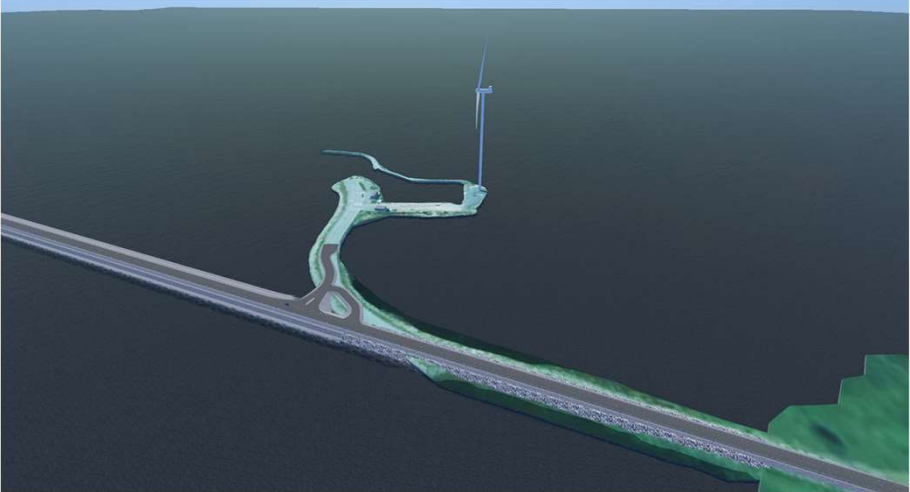
Budget 106 M€

Form of procurement Design-Build, Alliance model.

Link <https://vayla.fi/en/hailuoto-causeway>



Hailuoto Causeway, pictures of plans



Infrastructure

Electrification of a railway Laurila-Tornio-Haaparanta

Description	Laurila–Tornio–Haaparanta-railway to be upgraded by implementing electrification. The project is co-operation between Finnish Transport Infrastructure Agency , National Emergency Supply Agency and Swedish Trafikverket.
Where	Haparanda
Timeline	2023-24
Status (phase)	Financing ensured.
Budge	24 M€
Form of procurement	Ratatek Oy was selected 8/2022 to design and build of this project
Link	https://vayla.fi/-/laurila-tornio-haaparanta-rataosan-sahkoistysurakan-urakoitsija-on-ratatek-oy

Infrastructure

Mt 8155 Poikkimaantie Oulu - Väylävirasto

Description	Upgrade of the road connection to port of Oulu (road and bridges).
Where	Oulu
Timeline	2023-24
Status (phase)	Financing ensured, construction started
Budge	about 40 M€
Form of procurement	Client of this project Finnish national Transport Agency and additionally City of Oulu, Fintraffic Tie Oy and Oulun Vesi - business unit the the city of Oulu.
Link	https://vayla.fi/mt8155-poikkimaantie

Infrastructure

Fingrid's Aurora Line project

Description	A new 400 kV transmission line from Pyhäselkä Muhos via Keminmaa to Messaure on the Swedish side of the border.
Where	Oulu
Timeline	Construction works 2022-25, commissioning 2025.
Status (phase)	Under construction
Budge	A large budget size project
Form of procurement	Client of this project Finnish national Transport Agency and additionally City of Oulu, Fintraffic Tie Oy and Oulun Vesi - business unit the the city of Oulu.
Link	www.fingrid.fi/en/grid/construction/aurora-line

Infrastructure

Upgrading the railway Oulu-Laurila

Description	Upgrading the railway connection between Oulu and Laurila.
Where	Oulu
Timeline	Not confirmed.
Status (phase)	Requirement Report (tarveselvitys) published 2022, Construction Engineering ongoing.
Budge	130 M€ ->
Form of procurement	Not yet
Link	https://vayla.fi/oulu-laurila-radan-perusparannus

Buildings

Terwa Tower hotel-office buiding to city of Oulu

Description	Construction of a high rise, 80m, hotel- and office building to Vänmanninsaari city of Oulu.
Where	Oulu
Timeline	Construction planned to be ready by 2026.
Status (phase)	Hotel operator selected, Arina, Solo Sokos. General plan adptation/changes at process.
Budget	Not available yet
Form of procurement	Main contractor selected YIT Group Oyj
Link	https://terwakiinteistokehitys.fi/terwa-tower/

Buildings

Oulu travel center (aseman alue) + Areena project

Description Development and construction of of train station area in city of Oulu. The project has 100.000m² new construction. New Areena project is planned to be constructed next to travel center.

Where Oulu

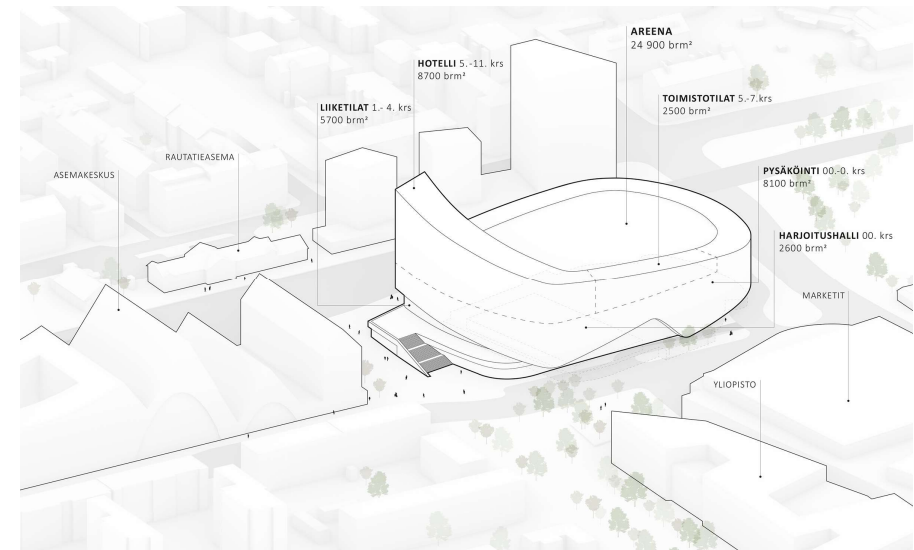
Timeline Planned to be ready by 2030.

Status (phase) Development

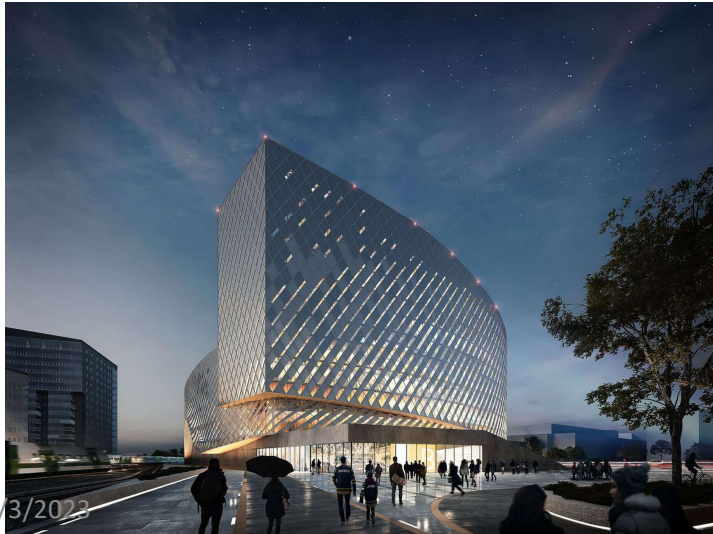
Budget Not defined yet

Form of procurement Main contractor not yet selected

- Link**
- <https://www.senaatti.fi/asema-alueet/kehittettavat-asema-alueet/>
 - <https://www.ouka.fi/oulu/uudistuva-oulu/asemakeskus>
 - <https://www.iltalehti.fi/smliga/a/0c5cee46-a50a-4cb0-b169-272ce6fa4e2e>



Oulu travel center (aseman alue) + Arena project, pictures



Buildings

Jääkärikangas community centre Oulu

Description	New community center building Jääkärikangas city of Oulu.
Where	Oulu
Timeline	Planning phase 2023, construction 2024-25.
Status (phase)	Public tender submission closed 10.5.2023
Budget	43 M€
Form of procurement	Design-build contract
Link	https://www.hankintailmoitukset.fi/en/public/procurement/84875/notice/126479/participation

Buildings

Jääkärikangas community centre Oulu

Description	New office and residential building "Graadi" 9400 m2 to Oulu city center, existing building to be demolished first.
Where	Oulu
Timeline	Planning phase 2023, construction 2024-25.
Status (phase)	Required city general plan
Budget	not available yet
Form of procurement	not defined yet
Link	https://www.op-media.fi/pohjolan-op/op-oulu-odottaa-kaavan-vahvistamista/

Buildings

Government office building Rovaniemi

Description	New office building 13.000m ² to Rovaniemi Isoaava Verstaantie for use of police.
Where	Rovaniemi
Timeline	Planning phase 2023-24, construction 2025-28.
Status (phase)	Preparatory works and city general plan change ongoing.
Budget	65 M€
Form of procurement	not defined yet
Link	https://www.senaatti.fi

Buildings

New Oulu police station + prison

Description	New police office and prison buildings to Oulu Ruskonselkä, 32.000 m2.
Where	Oulu
Timeline	Police office ready by the end of year 2024 and prison building 10/2025.
Status (phase)	Construction started 2022 / 2023
Budget	130 M€
Form of procurement	Main contract + sub contracts
Link	https://www.senaatti.fi/hankkeet/oulun-paapoliisiasema-ja-oulun-vankila/

Buildings

OYS2030

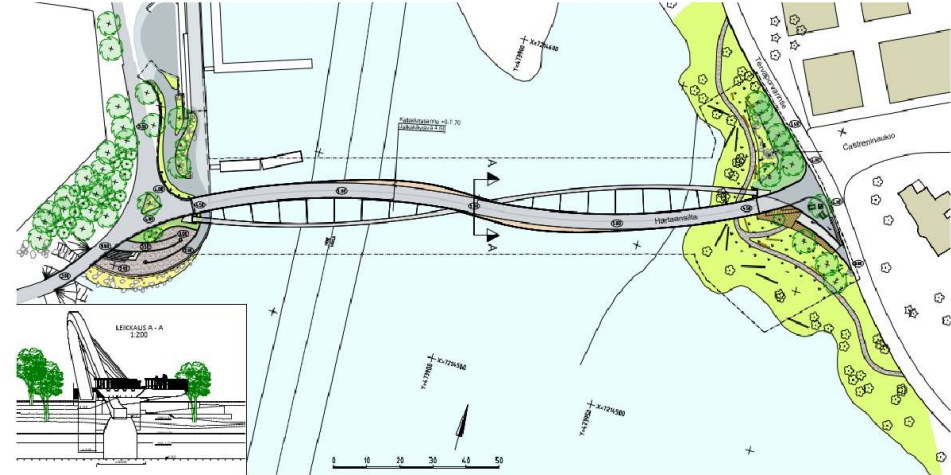
Description	"Future hospital" OYS2030 Oulu.
Where	Oulu
Timeline	Construction phase 2019-2028.
Status (phase)	Phase 1 construction ongoing, phase 2 (building C) design ongoing
Budget	1,6 billion €
Form of procurement	Alliance model
Link	https://oys2030.fi/en/future-hospital/

Buildings

Oulu Housing Fair 2025

Description	Finland's Housing Fair is a housing and construction event that will be organized in Oulu at summer 2025 The Housing Fair allows the audience to see and experience the latest innovations in housing in an authentic environment, that is, newly-built homes.
Where	Oulu
Timeline	Construction phase 2023-2025, Housing Fair open to public at summer 2025.
Status (phase)	Construction of infrastructure ongoing, houses to be built 2024-25
Budget	Not defined
Form of procurement	Several different construction and housing companies builds houses for fair and and for sale
Link	https://www.ouka.fi/asuntomessut2025 https://projektit.ramboll.fi/360/hartaanselka360/

Oulu Housing Fair 2026, pictures of plans



11/3/2023



Industry investments

Stora Enso Oulu factory upgrade

Description	Change of production line from paper to cardboard, StoraEnso Oulu factory.
Where	Oulu
Timeline	Investment decision made 10/2022.
Status (phase)	Construction works started 1/2023, to be completed by 2025.
Budget	About 1 billion €
Form of procurement	Construction contracts and subcontracts
Link	https://www.storaenso.com/fi-fi/about-stora-enso/stora-enso-locations/oulu-mill/oulun-tehtaasta-tulaveisuuden-tehdas

Industry investments

Kanteleen Voima Oy / Nordfuel Oy, Haapavesi factory of biofuels

Description	Modification of the Haapavesi bio(electricity)power plant to biofuel production.
Where	Haapavede
Timeline	Investment decision to be made 2023.
Status (phase)	Environmental permit received in February 2023. Preparational works started at the site.
Budget	About 400 M€.
Form of procurement	not defined yet
Link	www.nordfuel.fi

Industry investments

Infinited Fiber Company Oy Kemi Veitsiluoto plant

Description	Construction of a company's flagship factory to Kemi to process trashed textiles to circular textile fiber.
Where	Kemi
Timeline	Investment decision not made yet.
Status (phase)	Engineering and project management consultant selected (Rejlers Finland)
Budget	About 400 M€.
Form of procurement	not defined yet
Link	www.infinitedfiber.com

Industry investments

Steel recycle plant Kemi

Description	Kuusakoski Oy plans to invest a new steel recycling plant to Kemi Veitsiluoto.
Where	Kemi
Timeline	Construction 2024-25.
Status (phase)	Design and preparation
Budget	25 M€.
Form of procurement	not defined yet
Link	https://www.kuusakoski.com/fi/finland/ajankohtaista/2023/kuusakoski-rakentaa-ensimmaisen-hiilivapaan-teraksenkierratyslaitoksen-kemin-veitsiluotoon/

Industry investments

ET Fuels, Ranua factory of biomethanol

Description	Construction of a biomethanol factory to Ranua.
Where	Ranua
Timeline	Construction planned to start 2026.
Status (phase)	Engineering
Budget	800 M€
Form of procurement	not defined yet
Link	https://www.et-fuels.com/projects

Industry investments

Kaicell Fibers Oy, Paldamo

Description	Construction of a greenfield cellulose and bioproducts factory to Paldamo.
Where	Paldamo
Timeline	Environmental permit received 2020 Planned construction phase 2023-24 Plan to start production 2024-25
Status (phase)	Investment decision to expressed to be made 2023.
Budget	About 1 billion €
Form of procurement	not defined yet
Link	www.kaicellfibers.fi

Industry investments

SSAB Raahe, investment for fossilefree steel production

Description	Construction of a fossilefree steel production at Raahe factory.
Where	Brahestad
Timeline	Investment decission planned to be made Q1/2024. New factory to be ready by 2030.
Status (phase)	Environmental approval process of a new power line started.
Budget	Preliminary about 2-2,5 billion €
Form of procurement	not defined yet
Link	www.ssab.com

Industry investments

Outokumpu Tornio plant investment for green energy

Description	Construction of a biocoke and biomethane plant to Tornio factory to enable steps towards fossil-free steel production.
Where	Tornio
Timeline	Investment decision planned to be made 2023.
Status (phase)	Environmental approval process started.
Budget	
Form of procurement	not defined yet
Link	https://www.outokumpu.com/fi-fi/news

Industry investments

Nokia – new Oulu plant

Description	Construction of a new factory&office building for Nokia in Oulu.
Where	Oulu
Timeline	Construction time 2022-25
Status (phase)	Construction ongoing, main contractor YIT Oyj
Budget	250 M€
Form of procurement	Main construction contract (YIT)
Link	https://www.nokia.com/fi_fi/about-us/news/releases/2022/11/18/nokian-oulun-uuden-kampuksen-peruskivi-muurattiin-rakennustyot-kaynnistyneet-ajallaan/ https://www.yit.fi/en/projects/nokia-campus-oulu

Industry investments

Suhanko

Description	New palladium mine to be built in Ranua, Suhanko Arctic Platinium-project.
Where	Ranua
Timeline	Construction of a new road to a future mine area started May 2023. Plans to start the construction of a mine in 2024.
Status (phase)	Engineering
Budget	1 billion €
Form of procurement	not defined yet
Link	www.suhanko.com

Industry investments

Keliber Kaustinen & Kokkola plants

Description	Construction of an enrichment plant to Kaustinen and lithium chemical factory to Kokkola.
Where	Kaustinen and Kokkola
Timeline	Investment decision made 2022. Lithium chemical factory to Kokkola ready 2025.
Status (phase)	Engineering and project management consultant selected (Rejlers Finland).
Budget	About 600 M€.
Form of procurement	EPC
Link	https://www.sibanyestillwater.com/fi/keliber-tiedotteet/2022/keliberin-litiumhankkeen-rakentaminen-alkaa-investointi-yli-puoli-miljardia-euroa/

Industry investments

Sakatti

Description	New multimetal mine to be built to Sodankylä.
Where	Sodankylä
Timeline	Preparation phase ongoing, plans to start construction at the second half of 2020.
Status (phase)	Environmental permit process ongoing.
Budget	980 M€
Form of procurement	
Link	https://finland.angloamerican.com/en

Industry investments

Hannukainen Mine

Description	New mine to Kolari Hannukainen.
Where	Kolari
Timeline	Preparation phase ongoing, plans to start construction at 2024. Mining production planned to start 2026.
Status (phase)	Environmental permit process ongoing.
Budget	300 M€
Form of procurement	
Link	https://www.hannukainenmining.fi/en/hannukainen-mining-values/

Sweden



Infrastructure

Lulehamn - Malmporten

Description	Malmporten is Sweden's largest dredging project in modern times, but it is above all a project with great benefits for the environment, society and people. Project Malmporten enables growth and strengthened competitiveness, sustainable transition and viable communities in the north.
Where	Luleå hamn
Timeline	2024-2029
Status (phase)	Planning
Budget	-
Link	https://malmporten.se/



Infrastructure

The Norrbothnia Railway

Description	27 miles of new, coastal railway between Umeå and Luleå. New travel centers in Skellefteå, Piteå and Luleå. Regional train stations in Sävar, Robertsfors, Bureå and Byske, among others.
Where	Umeå-Luleå
Timeline	Finished in 2033
Status (phase)	Ongoing
Budget	SEK 40 billion
Link	https://www.trafikverket.se/vara-projekt/projekt-som-stracker-sig-over-flera-lan/norrbotniabanan/



Infrastructure

Kiruna Railway Station

Description	New railway station with associated track laying in Kiruna.
Where	Kiruna
Timeline	2022-2025
Status (phase)	Planning
Budget	SEK 40 billion
Link	https://www.trafikverket.se/vara-projekt/projekt-i-norrbottens-lan/kiruna-ny-jarnvagsstation/#tidsplan



Buildings

Hertsöheden

Description

A new residential area with up to 2,000 homes. Hertsöheden becomes the housing market's equivalent of the green industrial revolution with focus in innovation and smart city.

Where

Luleå

Timeline

Estimated start of construction 2026

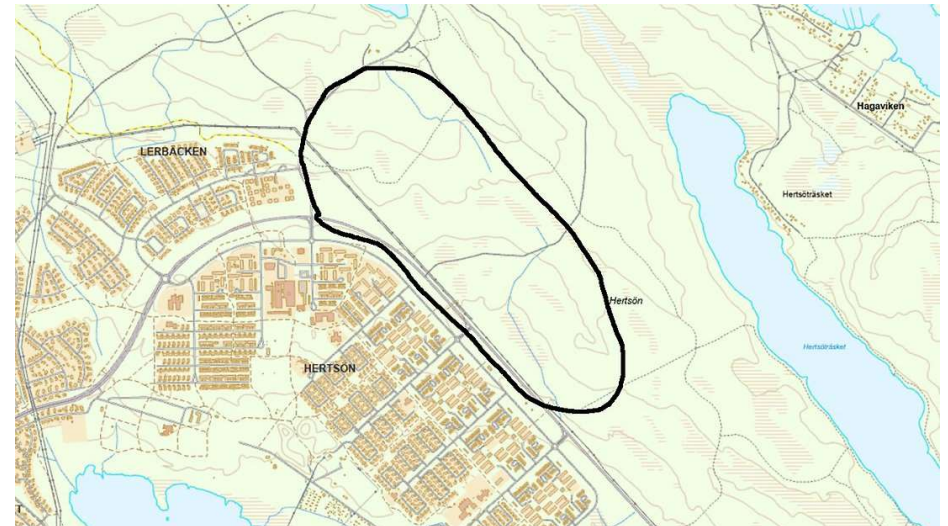
Status (phase)

Planning

Budget

Link

<https://www.lulea.se/samhalle--utveckling/aktuella-projekt/hertsosheden.html>



Buildings

Östra station

Description	Östra Station in Umeå are building a new area that contains a mix of housing, offices, restaurant, gym, grocery store, sustainable communication solutions and much more.
Where	Umeå
Timeline	2021-2024
Status (phase)	Phase 1 ends in 2024
Budget	SEK 2 billion
Link	https://www.balticgruppen.se/projekt/ostra-station/



Buildings

Piteå is growing

Description

Piteå is growing with a completely new residential area. In the master plan 2030, the area east of the city center is identified as a suitable area for development. The proximity to the city center and recreational areas gives the area attractiveness. When the area is completed in 2030, it will provide space for around 600 homes for around 1000-1400 inhabitants.

Where

Piteå

Timeline

2021-2030

Status (phase)

Ongoing

Budget

Link

<https://www.pitea.se/invanare/Kommun-politik/hallbar-samhallsutveckling/>

Buildings

Gällivare city transformation

Description The ongoing city transformation affects approximately 1,900 homes and a number of municipal functions in Malmberget, such as a sports hall, homes for the elderly, an ice rink and a high school.

About 3,200 people will need a new home and about 74,000 square meters of public premises need to be replaced before 2032.

Where Gällivare

Timeline 2022-2035

Status (phase) Ongoing

Budget SEK 4.5 billion

Link <https://gallivare.se/samhallsomvandlingen/samhallsomvandlingen>



Industry investments

Luleå industry park

Description	Circular industrial park, where phosphorus, earth metals and fluorine are separated from iron ore mining and gypsum is obtained as a by-product.
Where	Luleå
Timeline	2022 - 2030
Status (phase)	Ongoing
Budget	SEK 10 billion
Link	https://www.luleaindustripark.se/



Industry investments

Uniper Botnia Link H2

Description Port of Luleå, ABB and Uniper plan to develop a regional hydrogen center in Luleå. Using a large-scale electrolyser that separates hydrogen and oxygen from water, will contribute to fossil-free industries and logistics chains in Norrbotten. The project enables the production of 12,000 tones of fossil-free hydrogen gas/year.

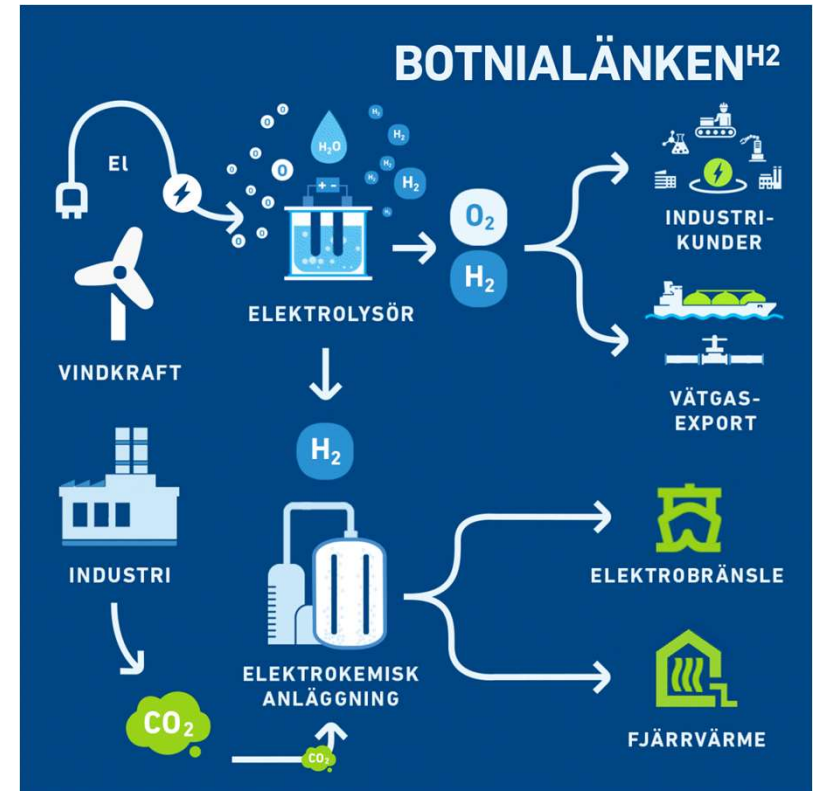
Where Luleå

Timeline 2022 - 2027

Status Ongoing

Budget

Link <https://www.uniper.energy/sverige/nyheter/botnialanken/>



Industry investments

LKAB ReeMAP

Description Apatite concentrate will be extracted in Kiruna and Gällivare/Malmberget. This is then transported by rail to the industrial park in Luleå, where the apatite concentrate is dissolved and the products phosphorus, earth metals and fluorine are separated, and gypsum is obtained as a by product.

Where Luleå

Timeline 2022 - 2027

Status Ongoing

Budget

Link <https://ree-map.com/sv/om-reemap/>



Industry investments

LKAB HYBRIT

Description	World-unique underground storage for fossil-free hydrogen is inaugurated in Luleå.
Where	Luleå
Timeline	2021-2024
Status	Ongoing
Budget	
Link	https://lkab.com/press/hybrit-varldsunik-bergrumslager-for-fossilfri-vatgas-invigs-i-lulea/



Industry investments

Green Wolverine - FERTIBERIA

Description	Grupo Fertiberia plans to develop the first large-scale plant for the production of green ammonia and fertilizer in Sweden.
Where	Not decided
Timeline	2023-2026
Status	Construction can start within the next few years, hope to be ready in 2026.
Budget	1 billion euros
Link	https://www.fertiberia.com/en/amoniacoverde/green-wolverine-project/



Industry investments

H2 Green Steel

Description	Facility on 500 hectares where fossil-free steel will be produced using hydrogen gas. Investment of SEK 25 billion. By 2030, it is hoped to be able to produce five million tonnes annually.
Where	Norra Svartbyn, Boden
Timeline	2022-2030
Status	Hope to now be in production by 2025 at the latest.
Budget	Investment of SEK 25 billion.
Link	https://www.h2greensteel.com/



Industry investments

Markbygden

Description	When fully developed, this will be Europe's largest land-based wind farm. Initially, the aim was set on 1101 wind turbines, but technical development means that it finally lands on around 750. Fully developed, Markbygden should be able to produce 12 TWh annually. In 2021, 166 TWh were produced in all of Sweden, according to Ekonomifakta.
Where	Piteå
Timeline	2026 depending on permission.
Status	Planning phase
Budget	
Link	https://www.skybornrenewables.com/markets/sweden/local/polargrund_offshore



Industry investments

Northvolt

Description	A production facility for lithium-ion batteries and "Revolt One", a recycling facility for lithium-ion batteries.
Where	Skellefteå
Timeline	Expected to be completely ready in 2025-2026.
Status	Production
Budget	
Link	https://northvolt.com/manufacturing/ett/



Industry investments

Copperstone Viscaria mine

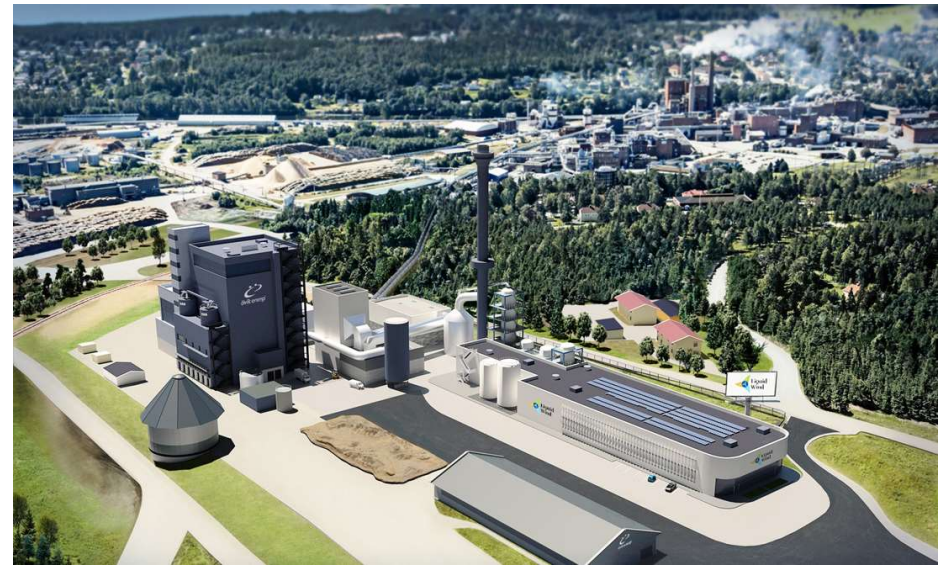
Description	If the mine reopens, it could thus become one of the largest copper producers in northern Europe. Possibly in operation in 2025
Where	Kiruna
Timeline	Possibly in operation in 2025.
Status	Planning
Budget	
Link	https://copperstone.se/projekt/viscaria/



Industry investments

Emetanol plant

Description	The company Liquid Wind is to build a large plant to produce electromethanol, so-called emethanol. The fuel is to replace fossil fuels in heavy transport, for example shipping. It is created with hydrogen produced by wind power and carbon dioxide separated from flue gases from the nearby biofuel-based plant Hörneborgsverket.
Where	Örnsköldsvik
Timeline	Planning for first production 2024
Status	Planning
Budget	
Link	https://www.liquidwind.se/emethanol



Norway



Infrastructure

Statens Vegvesen (Norwegian road administration)

Description

- PPS Hålogalandsvegen. Skanska main contractor together with Hære. Requirements for climate and environment. Approx. NOK 20 billion
- E10 Fiskebøl - the pacifier trauma. Approx. NOK 4.5 billion
- E6 New road; Sørfold – Sommerseth. Approx. NOK 5 billion

Where

Nordland County

Timeline

Status

Production: Hålogalandsvegen
Planning phase: Fiskebøl and Sørfold

Budget

Link

<https://www.vegvesen.no/vegprosjekter/finn-vegprosjekt/>
<https://nrrf.no/sites/n/nrrf.no/files/vegvesen.pdf>



Infrastructure

Vardø Municipality

Description New floating jetties in Vardø harbor and Kiberg harbour

Where Vardø

Timeline Offer deadline: 2023-09-30

Status

Budget

Link [Doffin](#)
[Reguleringsplaner - VARDØ KOMMUNE](#)
vardo.kommune.no



VARDØ KOMMUNE

Buildings

Narvik Municipality

Description

- Construction of block, 24 housing units in Ballangen
- Kjøpsvik, upbringing centre + four garages
- Frydenlund primary school, new building 3000 m², renovation of the yellow school, renovation of the red school plus health center
- Development of playgrounds

Where

Narvik

Timeline

Status

Ask suppliers to get in touch: Few suppliers

Budget

Approx. NOK 1 billion

Link

<https://www.narvik.kommune.no/kunngjoringer-og-horinger/>
<https://nrf.no/sites/n/nrf.no/files/narvikkommune.pdf>



Buildings

Nordland County

Description	New high school Build 8-9000 m2 building
Where	Narvik
Timeline	2028 – 2032
Status	
Budget	Approx. NOK 1,4 billion
Link	https://nrf.no/sites/n/nrf.no/files/nfk.pdf.pdf

Narvik videregående skole

- Frydenlund: 7400 m2, byggeår 1960/1998
- Solhaugen: 7500 m2, byggeår 1978/2009
- Oscarsborg: 13499 m2, byggeår 1931/1954/1978/1982

- Totalt 28400 m2
- Ca 920 elever
+ over 200 ansatte



Buildings

Finnsnes Municipality

Description	Finnsnes primary school and multi-purpose hall with climbing hall
Where	Finnsnes
Status	Total contract
Budget	
Link	anskaffelser@senja.kommune.no



Buildings

Oppeid Municipality

Description	Nursing homes. The project consists of a main building with 16 care homes, common areas and areas for employees and home care.
Where	Oppeid
Status	Total contract
Budget	
Link	https://www.hamaroy.kommune.no/hoeringer.510880.no.html



**Hábmera suohkan
Hamarøy kommune**

Buildings

Narvikgården, Building manager of Narvik municipality's buildings

Description

- Rehabilitation of Sentrumsgården + Torvhallen + Parkeringshall
- Sykehusveien 3 (parts of the former nursing home) will be converted into refugee accommodation
- Bjerkvik, housing
- Nordkraft Arena, new lighting
- Taraldsvikjordet, shop premises
- New inner harbor and district facing the sea

Where

Narvik

Status

Budget

Link

<https://nrf.no/sites/n/nrf.no/files/ngas.pdf>



Buildings

Description	Planned housing project in Tromsø
Where	Tromsø
Status	
Budget	
Link	https://byggeprosjekt.byggfakta.no/planlagte/bostedsprosjekt/alle/alle/troms-og-finnmark-fylke/troms%C3%B8



Industry investments

Grataglaks

Description Ocean raft with 8 salmon concessions in concrete.
Area efficient and made for exposed areas.

Where

Status Built by Aker, and subject to decision

Budget Approx NOK 1,3 billion

Link https://nrrf.no/sites/n/nrrf.no/files/_ymerd_-_byggeb_rs_narvik_20.09.23.pdf



Industry investments

Nova Sea

Description	New production facility for processing salmon
Where	Lovund
Status	Starting in April 2024
Budget	Approx NOK 2 billion
Link	https://novasea.no/vi-gjenopptar-byggingen-av-nytt-slakteri-pa-lovund/



Industry investments

Aker Horizon

Description	Ammonia factory
Where	Narvik
Status	Investment decision primo 2025
Budget	
Link	