

# Environmental Product Declaration for aggregates from Uddevalla quarry – Glimmingen



According to EN 15804:2012+A1:2013, ISO 14025, ISO 14040 and ISO 14044  
 Program operator: International EPD® System  
 EPD owner: NCC Industry Nordic AB  
 Address: Glimmingen 430, 451 92 Uddevalla

First publication date 2019-12-19      Last revision date: 2022-03-08      Valid until 2024-12-18      Version 2019-12-19  
 ECO Platform ref.no. 00001075      Reg. no. S-P-01640      UN CPC 15320

*The verifier and the program operator do not make any claim nor have any responsibility of the legality of the product, its production process or its supply chain.*

This is a “cradle-to-gate” EPD based on an LCA model described in the background report and in the corresponding annex (see list of references). The products declared are aggregates manufactured by NCC Industry, Division Stone Materials. The declared site is Glimmingen in Uddevalla, a medium-sized stationary crushing plant of NCC Industry in Sweden.

In 2018, the products declared are intended to be used as, e.g. , filling material in civil engineering and construction projects, railway macadam and as bulk material in concrete and asphalt.

---

## EPD INFORMATION

---

Declared unit:	1000 kg product, at the construction site
RSL:	Not specified
PCR:	Product Category Rules PCR 2012:01. Construction products and construction services. Version 2.3 of 2018-11-15.
Program operator:	The International EPD® System operated by EPD International AB Box 210 60 SE-100 31 Stockholm Sweden info@environdec.com

---

DESCRIPTION OF THE PRODUCT

---

Aggregates are produced in various varieties; from blasted rock to finely crushed 0/2 mm material (grains between 0 and 2 mm in diameter). There are 21 types of aggregates declared in this EPD, representing the

products manufactured at the declared site, see Table 1. The technical standards which the aggregates are compliant with are also presented in the table below. The aggregates consist of granite.

**Table 1: Products manufactured at the declared site, classified into product groups.**

Product group	Product names (English)	Product names (Swedish)	EN-12620 1)	EN-13242 2)	EN-13043 3)	EN-13450 4)
1	Blasted rock	Råberg				
2	Sub base 0/150	Förstärkningslager 0/150				
	Macadam 100/250	Makadam 100/250				
	Macadam 150/300	Gabionsten 150/300				
3	Crushed Rock 0/16	Bergkross 0/16		X		
	Base Course 0/32	Bärlager 0/32		X		
	Sub base 0/90	Förstärkningslager 0/90		X		
	Macadam 16/90	Makadam 16/90		X		
	Macadam 32/63	Makadam 32/63		X		
	Railway macadam 32/63	Makadam 32/63 klass 1				X
4	Rock fines 0/2	Stenmjöl 0/2	X	X	X	
	Rock fines 0/5	Stenmjöl 0/5	X	X		
	Crushed rock 0/8	Bergkross 0/8	X	X		
	Macadam 2/5	Makadam 2/5		X	X	
	Macadam 4/8	Makadam 4/8		X	X	
	Macadam 8/11	Makadam 8/11	X	X	X	
	Macadam 8/16	Makadam 8/16	X	X		
	Macadam 11/16	Makadam 11/16	X	X	X	
Macadam 16/22	Makadam 16/22		X	X		
5	Macadam 2/5 salt mixed	Isgrus 2/5 med salt		X		
	Macadam 4/8 salt mixed	Makadam 4/8 salt		X		

1) EN-12620+A1:2008 - Aggregates for Concrete

2) EN-13242+A1:2007 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction

3) EN-13043/AC:2006 - Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas

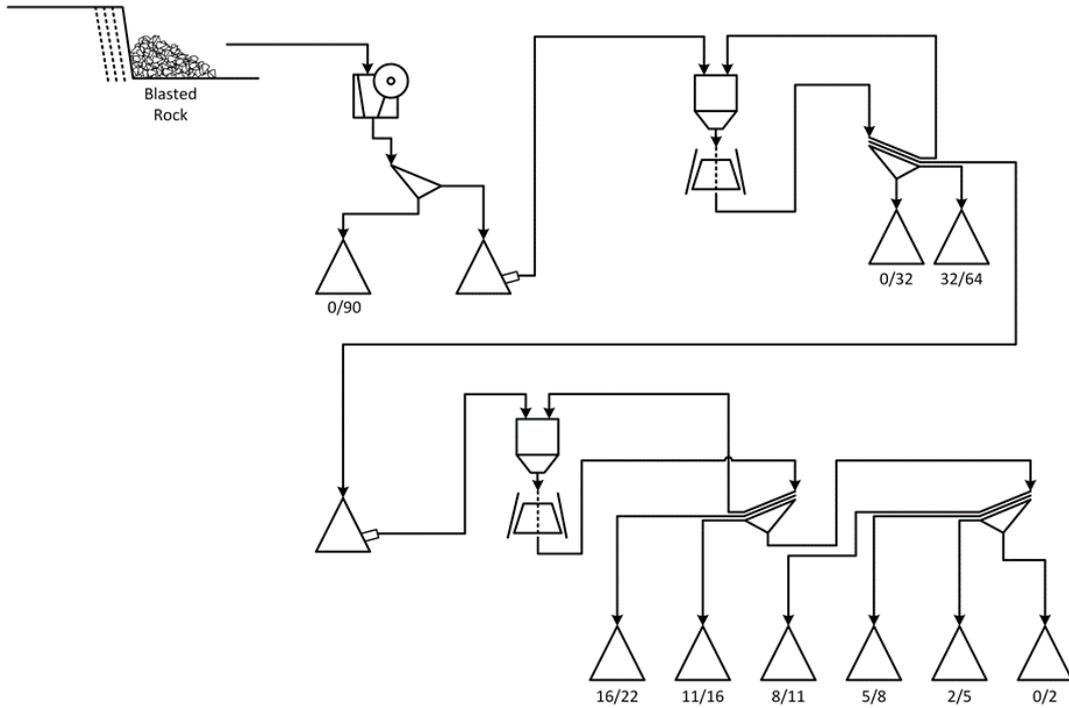
4) EN-13450/AC:2012 - Aggregates for railway ballast

The products are classified into product groups based on the number of crushing steps they pass and if they are mixed with salt. Product group 1 has not been crushed, group 2 products pass one crushing step, group 3 pass two crushing steps and group 4 pass three crushing steps. Group 5 pass three crushing steps and is mixed with salt.

When extracting virgin rock at the site, the first step is to remove the overburden, like soil, moraine and trees, with an excavator to uncover the hard rock. Consideration is taken to animals inhabiting the site by avoiding felling trees during the breeding season. The overburden is normally stored within the quarry to be used in rehabilitation of the quarry at the end of life. After removal of the overburden, holes are drilled,

filled with explosives and detonated. The number of holes drilled depends on the amount of rock to extract at each blast. The explosives are normally taken to the site by tanker trucks. The explosive is in most cases a two-component product that is mixed and activated when pumped down into the holes. Hence, no explosives are stored at site. After the blast, the raw material is fed into the production process using a combination of excavators, wheel loaders and/or dumper trucks.

The continued production process is a combination of material feeders, conveyor belts, crushers and screens that transports, breaks and sorts the material into different products. The production process set-up is illustrated in Figure 1.



**Figure 1: Process set-up for the production of aggregates at the declared site.**

The products declared are classified according to the United Nations Central Product Classification (UN CPC) 15320. All materials are produced according to the Construction Products Regulation (CPR) within the EU regulation 305/2011. The products declared do not contain any substances of very high concern (SVHC) according to REACH.

The geographical location of the declared site is shown in Figure 2.



**Figure 2: Map and aerial view showing the geographical location of the declared site.**

## ENVIRONMENTAL GENERAL INFORMATION

### 1. Declared unit and reference flow

The declared unit is 1 tonne (1000 kg) of aggregates. The reference flow is calculated at the production gate.

### 2. System boundary

The system boundaries cover several aspects such as temporal, geographical and which unit processes to include in the system model. The setting of system boundaries follows two principles according to EN 15804: (1) The “modularity principle” entails that the environmental impacts are declared in the life cycle stage where they appear, (2) the “polluter pays principle” means that waste processing shall be assigned to the flow diagram that generates the waste until the end-of-waste state is reached (i.e. until a new user pays for it as a raw material).

The EPD is cradle-to-gate with options, declaring the modules A1-A3, see Figure 3.

Data that represent the current situation production process at the plant is used. All input data for the core module and for raw materials that NCC Industry has influence over are site specific data for the production year 2018.

The environmental impact from infrastructure, construction, production equipment and tools that are not directly consumed in the production process are not accounted for in the LCI. Personnel-related impacts, such as transportation to and from work, are neither accounted for in the LCI.

Upstream	Core			Downstream													Other environmental information
	Product stage			Construction process stage		Use stage							End of life stage				
Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Future reuse, recycling or energy recovery potentials	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	

**Figure 3: The system boundaries of the LCA. Modules of the production life cycle included in the EPD (X = declared module; MND = module not declared)**

### 3. Assumptions and approximations

Hydraulic oil is approximated with a dataset for lubricants since no dataset or EPD were found for hydraulic oil and the impact is judged to be similar.

The allocation of the electricity consumption to the crushing steps has been made based on data from 2019. Before 2019, it was not possible to allocate the electricity to the specific crushing steps at the site. However, 2018 year’s electricity consumption figures have been used.

### 4. Allocation

The production does not deliver any co-products.

The products are divided into different product groups (see Table 1) based on the number of crushing steps and if they are mixed with salt. This affects the amount of electricity, fuels and water used in the production.

The consumption of explosives is allocated equally on all products originating from blasted rock, based on mass. Explosives are not allocated to products not originating from blasted rock.

The electricity consumption is known for each process (crushing) step. Since the electricity consumption is known for each process step, the exact electricity consumption for each product is known since it is known which process steps each product goes through.

The fuel consumption is known for the site as a total. Allocation of the fuel consumption is made based on knowledge about which process steps each product goes through. Fuel consumed in machines used for general activities on the site is allocated on all products produced, based on mass.

## **5. Release of dangerous substances during the use phase**

The products have been tested for radioactivity and the tests show that the activity index is 1.10, just above the limit of 1.0 for construction materials (Swedish Radiation Safety Authority 2018).

This means that the use of the products shall be planned so that there is no risk of exceeding the reference level in Chapter 3, 7§ in Strålskydds-förordningen (2018:506). The reference level is 1 millisievert yearly effective dose of gamma radiation to persons staying in a building. In practice, this means that it might not be allowed to use the products in buildings.

## **6. Cut-offs**

The cut-off criteria are 1% of the renewable and non-renewable primary energy usage, 1% of the total mass input of the manufacture process (according to the EN 15804 standard).

In the assessment, all available data from the production process are considered, i.e. all raw materials used, utilised ancillary materials, and energy consumption using the best available LCI GaBi datasets. All raw materials and energy used in the aggregate manufacture are included.

The following cut-offs have been made:

The amount of oil-contaminated soil due to spillage from machines/vehicles is very difficult to estimate. Based on internal expert knowledge, this amount is deemed negligible and very rarely occurring.

The packaging materials used for the raw materials.

The ancillary material foam for dust reduction is omitted since no appropriate dataset could be found. It is also estimated to have a minor contribution to the environmental impact because it is used in a low quantity (about 0,01 litre per tonne product). It consists of citrus oil and esters of aliphatic acids. However, the upstream transport of this material to the production site is included.

## **7. Software and database**

The LCA software GaBi Professional and its integrated database from thinkstep has been used in the LCA modelling. See the list of references.

## **8. Data quality**

The primary data collected by the manufacturer are based on the required materials and energy to manufacture the product to create a general model. The data of the raw materials are collected per declared unit. All necessary life cycle inventories for the basic materials are available in the GaBi database or via EPDs. No generic selected datasets (secondary data) used are older than ten years and no specific data collected is older than five years and represent a period of about one year.

The representativeness, completeness, reliability and consistency are judged as good.

## **9. Comparability**

EPDs of construction products may not be comparable if they do not comply with EN 15804. Neither may EPD within the same product category from different programs be comparable.

A comparison of EPDs is only possible if all the data sets to be compared are created according to ISO 14025 and EN 15804, and the building context, particularly the product-specific characteristics of performance, is taken into account.

---

**ENVIRONMENTAL PERFORMANCE-RELATED INFORMATION**


---

The results of the life cycle assessment, based on the declared unit, can be found in Table 2 (potential environmental impact), Table 3 (resource use) and Table 4 (output flows and waste categories). The products are grouped into product groups depending on the number of crushing steps and if they are mixed with salt, affecting the environmental impact. Products within the same product group carry the same impact. The deviation within each product group is less than 10% for any potential environmental impact, resource use and waste category.

**Table 2: Results of the LCA - Potential environmental impact for 1 tonne (1000 kg) of aggregates.**

Potential environmental impact		Product group 1	Product group 2	Product group 3	Product group 4	Product group 5	
		Blasted rock	Sub base 0/150, Macadam 100/250, Macadam 150/300	Crushed Rock 0/16, Base Course 0/32, Sub base 0/90, Macadam 16/90, Macadam 32/63, Railway macadam 32/63	Rock fines 0/2, Rock fines 0/4, Crushed rock 0/8, Macadam 2/5, Macadam 4/8, Macadam 8/11, Macadam 8/16, Macadam 11/16, Macadam 16/22	Macadam 2/5 salt mixed, Macadam 4/8 salt mixed	
Parameter	Unit	A1-A3	A1-A3	A1-A3	A1-A3	A1-A3	
Global warming potential (GWP100)	Fossil*	kg CO <sub>2</sub> eq	2.2	2.3	2.6	2.6	3.7
	Biogenic*	kg CO <sub>2</sub> eq	0	0	0	0	0
	Land use / land transformation*	kg CO <sub>2</sub> eq	6.9E-04	8.6E-03	8.6E-04	8.6E-04	0.02
	TOTAL**	kg CO <sub>2</sub> eq	2.2	2.3	2.6	2.6	3.7
Ozone depletion potential (ODP)	kg CFC 11 eq	7.0E-08	4.6E-08	7.1E-08	7.2E-08	7.2E-08	
Acidification potential of land and water (AP)	kg SO <sub>2</sub> eq	0.02	0.01	0.02	0.02	0.03	
Eutrophication potential (EP)	kg PO <sub>4</sub> <sup>3-</sup> eq	0.04	0.02	0.04	0.04	0.04	
Photochemical ozone creation potential (POCP)	kg C <sub>2</sub> H <sub>2</sub> eq	1.3E-03	1.2E-03	1.7E-03	1.7E-03	2.5E-03	
Depletion of abiotic resources (elements) (ADPE)	kg Sb eq	2.8E-06	2.0E-06	2.9E-06	3.0E-06	3.1E-06	
Depletion of abiotic resources (fossil) (ADPF)	MJ, net calorific value	25	29	31	31	46	

\*This is additional information that is not required in the standard. Only the total GWP100 is compulsory to report.

\*\* The default value in the Swedish Transport Administration's tool Klimatkalkyl is 3.76 kg per tonne of aggregates (Trafikverket, Klimatkalkyl version 6.1, 2019).

**Table 3: Results of the LCA - Resource use for 1 tonne (1000 kg) of aggregates.**

Use of resources		Product group 1	Product group 2	Product group 3	Product group 4	Product group 5
		Blasted rock	Sub base 0/150, Macadam 100/250, Macadam 150/300	Crushed Rock 0/16, Base Course 0/32, Sub base 0/90, Macadam 16/90, Macadam 32/63, Railway macadam 32/63	Rock fines 0/2, Rock fines 0/4, Crushed rock 0/8, Macadam 2/5, Macadam 4/8, Macadam 8/11, Macadam 8/16, Macadam 11/16, Macadam 16/22	Macadam 2/5 salt mixed, Macadam 4/8 salt mixed
Parameter	Unit	A1-A3	A1-A3	A1-A3	A1-A3	A1-A3
Use of renewable primary energy (PERE)	MJ, net calorific value	0.64	13	23	58	60
Use of renewable primary resources used as raw materials (PERM)	MJ, net calorific value	0	0	0	0	0
Total use of renewable primary energy resources (PERT)	MJ, net calorific value	0.64	13	23	58	60
Use of non-renewable primary energy (PENRE)	MJ, net calorific value	25	29	31	31	47
Use of non-renewable primary energy resources used as raw materials (PENRM)	MJ, net calorific value	0	0	0	0	0
Total use of non-renewable primary energy resources (PENRT)	MJ, net calorific value	25	29	31	31	47
Use of secondary material (SM)	kg	0	360	0	0	0
Use of renewable secondary fuels (RSF)	MJ, net calorific value	0	0	0	0	0
Use of non-renewable secondary fuels (NRSF)	MJ, net calorific value	0	0	0	0	0
Use of net fresh water (FW)	m <sup>3</sup>	5.5E-03	5.8E-03	5.6E-03	6.9E-03	9.3E-03

**Table 4: Results of the LCA - Waste categories for 1 tonne (1000 kg) of aggregates.**

Waste		Product group 1	Product group 2	Product group 3	Product group 4	Product group 5
		Blasted rock	Sub base 0/150, Macadam 100/250, Macadam 150/300	Crushed Rock 0/16, Base Course 0/32, Sub base 0/90, Macadam 16/90, Macadam 32/63, Railway macadam 32/63	Rock fines 0/2, Rock fines 0/4, Crushed rock 0/8, Macadam 2/5, Macadam 4/8, Macadam 8/11, Macadam 8/16, Macadam 11/16, Macadam 16/22	Macadam 2/5 salt mixed, Macadam 4/8 salt mixed
Parameter	Unit	A1-A3	A1-A3	A1-A3	A1-A3	A1-A3
Hazardous waste disposed (HWD)	kg	3.5E-03	3.6E-03	5.1E-03	7.1E-03	7.1E-03
Non-hazardous waste disposed (NHWD)	kg	0.06	0.08	0.12	0.20	0.21
Radioactive waste disposed (RWD)	kg	3.5E-05	2.3E-05	3.5E-05	3.5E-05	3.5E-05

---

ADDITIONAL ENVIRONMENTAL INFORMATION

---

Virgin aggregates, especially glaciofluvial sand and gravel, is a finite resource. To extract rock from bedrock or sand and gravel from natural deposits will affect the environment through use of land which means changed conditions in existing habitats.

The extraction may have a negative impact on surrounding freshwaters and underlying groundwaters and the operations themselves requires equipment and vehicles running on fossil and renewable energy. The operations, including transports, cause emissions to air, water and soil and disturbances such as noise, vibrations and dust.

Therefore, quarries, gravel pits and terminals need to be environmentally assessed in accordance with current legislation. During the application procedure consultations are held with interested parties. Decisions and permits can be appealed.

All sites in NCC Industry, Division Stone Materials, are operated according to a given permit/decision from actual authority which include different conditions. Those conditions might regulate e.g. distance to groundwater level, noise, vibrations, dust, emissions to water and air, and rehabilitation of the finalized operation area.

The sites in Denmark, Finland and Sweden are certified according to ISO 14001. The Business Management System in NCC Industry, including Norway, contains routines corresponding to this standard.

However, aggregates are important when building the future society since aggregates is a core building material in residential buildings, offices, public

buildings and infrastructure. Building a normal sized single-family house requires about 100 tonnes of aggregates (SGU, 2018).

The average yearly European demand of aggregates is about 5 tonnes per capita (UEPG, 2018). In the Nordic countries the demand is higher; 8-13 tonnes per capita and year, mainly due to a lower population density.

If aggregates are not contaminated, they may be reused many times through recycling which is key in resource efficiency. At many of our sites NCC recycle smaller amounts of aggregates, concrete, asphalt, bricks and different soils. Recycled materials can then be used again. In the end of life, aggregates are usually reused as filling material in construction projects.

When a quarry/gravel pit is opened the existing habitats changes and the area looks sterile. The soil is normally poor in nutrients and different parts of the area are often exceptionally sunlit or shady, conditions that are appreciated by many species. Within a relatively small operational area that is disrupted continuously, like the quarry/gravel pit, the natural environments are often more varied than in the pristine neighboring area. This makes many of our sites unique and creates opportunities to benefit biodiversity both during operation and when rehabilitating.

Explanatory material is given in the background report to this EPD.

To read more about NCCs general sustainability work, please refer to our webpage; <https://www.ncc.group/sustainability/>

---

VERIFICATION DETAILS

---

**Table 5: Verification details.**

CEN standard EN 15804 served as the core PCR	
PCR:	Product Category Rules PCR 2012:01. Construction products and construction services. Version 2.3 of 2018-11-15
PCR review was conducted by:	The Technical Committee of the International EPD® System. Chair: Massimo Marino Contact via <a href="mailto:info@environdec.com">info@environdec.com</a> .
Independent verification of the declaration and data, according to ISO 14025:	<input checked="" type="checkbox"/> EPD process certification (Internal) <input type="checkbox"/> EPD verification (External)
Third party verifier:	Bureau Veritas
Accredited or approved by:	SWEDAC
Procedure for follow-up of data during EPD validity involves third party verifier:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

---

## REFERENCES

---

- Annex to General Background Report, Aggregates, Site specific information for aggregates from the site Uddevalla quarry – Glimmingen 2018. Version 2019-11-20.
- EN 15804: 2012+A1:2013: Sustainability of construction works -Environmental Product Declarations - Core rules for the product category of construction products
- EN ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures
- EN ISO 14040:2006 Environmental management - Life cycle assessment - Principles and framework
- EN ISO 14044:2006/A1:2018 Environmental management - Life cycle assessment - Requirements and guidelines – Amendment 1 (ISO 14044:2006/Amd 1: 2018)
- EPD International (2017) General Programme Instructions for the International EPD® System, version 3.01, dated 2019-09-18. [www.environdec.com](http://www.environdec.com)
- EPD process – general description (2019) NCC Industry, Division Stone Materials
- GaBi Professional: Documentation of GaBi 8: Software-System and Database for Life Cycle Engineering. Copyright, TM. Stuttgart, Leinfelden-Echterdingen, 1992-2019.
- General background report, Environmental Product Declarations for Aggregates. Version 2019-11-20.
- Geological Survey of Sweden (2017) Grus, sand och krossberg. 2018:2.
- Kreißig, J. und J. Kümmel (1999). Baustoff-Ökobilanzen. Wirkungsabschätzung und Auswertung in der Steine-Erden-Industrie. Hrsg. Bundesverband Baustoffe Steine + Erden e.V.
- MinBaS II (2011). Undersökning av eventuella effekter på vegetation av damning från täktverksamhet – Slutrapport. MinBaS II område nr 3, Delområde nr 3.1a, Delprojekt nr 3.1a-4. Rapport nr 3.1a-4.
- Orica Norway AS (2018). Civec Control/Centra Gold 100S/Fortis Advantage 100S and Subtek Velcro (2018), published at The Norwegian EPD Foundation
- Product Category Rules PCR 2012:01. Construction products and construction services, version 2.3 of 2018-11-15
- Regulation (EU) no. 305/2011 – Construction Products Regulation (CPR), <https://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:088:0005:0043:EN:PDF>
- Swedish Radiation Safety Authority (2018). SSMFS 2018:4 - Strålsäkerhetsmyndighetens föreskrifter om naturligt förekommande radioaktivt material och byggnadsmaterial. ISSN: 2000-0987.
- EN-12620+A1:2008 - Aggregates for Concrete
- EN-13043/AC:2006 - Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas
- EN-13242+A1:2007 - Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction
- EN -13450/AC:2012 – Aggregates for railway ballast
- The International EPD® System, EPD International AB, Stockholm, Sweden, <http://www.environdec.com/>
- Trafikverket (2019). Klimatkalkyl – emissionsfaktorer. <http://webapp.trafikverket.se/Klimatkalkyl/Modell>.
- United Nations Statistics Division (2015). Central Product Classification, version 2.1. <https://unstats.un.org/unsd/classifications/unsdclassifications/cpcv21.pdf>.
- UEPG (European Aggregates Association) (2018). Annual Review 2017-2018, A Sustainable Industry for a Sustainable Europe. <http://www.uepg.eu/uploads/Modules/Publications/uepg-annual-review-2017-2018.pdf>
- Vattenfall (2018). EPD of Electricity from Vattenfall's Nordic Hydropower, published at EPD International.
- Vattenfall (2019). Certified Environmental Product Declaration EPD of Electricity from Vattenfall's Wind Farms, published at EPD International.

---

## ABOUT THE EPD

---

This environmental product declaration (EPD) describes, from a lifecycle perspective, the environmental impact of aggregates from Uddevalla quarry – Glimmingen produced by NCC Industry AB.

The EPD is drawn up in accordance with Product Category Rules (PCR) PCR 2012:01. Construction products and construction services. Version 2.3 of 2018-11-15. The program operator is the International EPD® System (see [www.environdec.com](http://www.environdec.com) for more information).

The aim of this EPD is that it should provide objective and reliable information on the environmental impact of the production of the declared product. Produced by NCC Industry AB, Division Stone Materials.

This EPD is developed by NCC. It is a result from an EPD certification process verified by Bureau Veritas. The EPD is valid for five years (after which it can be revised and reissued). NCC Industry AB is the declaration owner.

---

## ABOUT NCC

---

NCC is one of the leading construction and property development companies in the Nordic region, with sales of SEK 57 billion and approximately 16 500 employees in 2018. With the Nordic region as its home market, NCC is active throughout the value chain – developing commercial properties and constructing housing, offices, industrial facilities and public buildings, roads, civil engineering structures and other types of infrastructure. NCC also offers input materials used in construction and accounts for paving and road services.

NCC's vision is to renew our industry and provide superior sustainable solutions. NCC aims to be the leading society builder of sustainable environments and will proactively develop new businesses in line with this.

NCC works to reduce both our own and our customers' environmental impact and continues to further refine our offerings with additional products and solutions for sustainability. In terms of the environment, this entails that NCC, at every step of the supply chain, is to offer resource and energy-efficient products and solutions to help our customers reduce their environmental impact and to operate more sustainably.

NCC's sustainability work is based on a holistic approach with all three dimensions of sustainability – social, environmental and economical. In NCC's sustainability framework, our focus areas with regards to sustainability are defined; Climate and Energy, Materials & Waste, Social Inclusion, Health & Safety, Compliance and Portfolio Performance. Our sustainability strategy includes the aim of being both a leader and a pioneer in these areas.

NCC reports on its sustainability progress each year and the report has been included in NCC's Annual Report since 2010. NCC applies Global Reporting Initiative (GRI) Standards, the voluntary guidelines of the GRI for the reporting of sustainability information. In addition to GRI, NCC also reports the Group's emission of greenhouse gases to the CDP each year. NCC is a member in BSCI (Business Social Compliance Initiative), which is the broadest business-driven platform for the improvement of social compliance in the global supply chain, and has been a member of the UN Global Compact since 2010. The UN Global Compact is a strategic policy initiative for businesses that are committed to aligning their operations and strategies with 10 defined and universally accepted principles in the areas of human rights, labour, environment and anti-corruption.

---

## CONTACT

---

NCC Industry Nordic AB  
Herrjärva torg 4  
170 80 Solna  
Sweden

Marie Berglund  
Mobile: +46 (0)70 579 49 14  
E-Mail: [marie.berglund@ncc.se](mailto:marie.berglund@ncc.se)

NCC Engineering  
Gullbergs Strandgata 2  
411 04 Göteborg  
Sweden

Jacob Lindberg & Kristine Ek  
Mobile +46 79 072 86 06 (Jacob) +46 70 230 11 48 (Kristine)  
[jacob.lindberg@ncc.se](mailto:jacob.lindberg@ncc.se) & [kristine.ek@ncc.se](mailto:kristine.ek@ncc.se)

Also visit: <https://www.ncc.group/sustainability/>