

EPD and green public procurement

- A Swedish contractors' perspective

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NCC's markets

- The Nordic region
- 5% of the market share
- Our largest market is in Sweden



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NCC 2015



Sales SEK **53 billion**

Employees **16,500**

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One NCC – three businesses

Industrial	Construction and civil engineering	Development
		
NCC Industry	NCC Building and NCC Infrastructure	NCC Property Development

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Vision
to *renew* our industry and provide
superior sustainable solutions.


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Our main public clients

- The Swedish Transport Administration, The Norwegian Public Roads Administration, Nye Veier
 - Large infrastructure projects
- Airports (Swedavia, Finnavia etc.)
- Municipalities in Sweden, Norway and Denmark
 - Maintenance of roads etc.
 - Smaller construction projects from Technical departments
 - Land development projects and public buildings
- Finland: University properties of Finland, Keiva
 - Public buildings

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Demands from our clients - today

- The Swedish Transport Administration
 - Provides a bonus to contractors if reducing the climate impact of large infrastructure projects more than required.
 - EPDs for construction materials is the only way to verify the reduction of an emission factor for a material
 - The bid can be lowered in accordance with the anticipated bonus, increasing the chance of winning the contract
 - In some cases, the climate impact reduction must be fulfilled to gain other bonuses
- Norwegian Public Roads Administration, Nye Veier
 - "Environmentally labelled products shall be prioritized" – EPDs for the main building materials (concrete, steel) are submitted to show this

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Demands from our clients - today

- Swedish municipalities
 - Uppsala: a paving project will receive a bonus if using asphalt with 10% lower climate impact
 - Gothenburg: Mapping of asphalt plants in western Sweden – "do you have EPD or plan to publish EPD"
 - BREEAM certifications of public buildings/communities: EPDs gives a higher score
 - Pre-qualifying contractors on "soft" parameters
- Swedish public landowners require us to show how we work with sustainable solutions/systems in general to allow us to acquire land

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Demands from our clients - today

- Oslo municipality
 - New arena: "5-10 of the most used materials shall have an EPD or equal"
 - All new hospitals and care centres shall be BREEAM certified
- Danish municipalities/regions
 - A few municipalities and one region require DGNB certification, in which one EPD gives 10 points
- University properties of Finland
 - Require BREEAM certification of all new buildings



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Demands from our clients – tomorrow

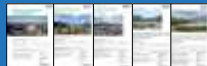
- The Swedish Transport Administration
 - Demands will increase: vision of a climate neutral infrastructure by 2050
- The Norwegian Public Roads Administration/Nye Veier
 - Requirement that products have an EPD will probably come
- More public clients requiring BREEAM certification and the Swedish Miljöbyggnad certification
 - We will need EPDs from our suppliers
- Municipalities
 - Requirements on EPDs are on the rise



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NCCs work with EPDs

- Started our work in 2014 and we now have five EPDs:
 - NCC Composite bridge
 - A bicycle and pedestrian bridge
 - Crushed aggregates from a stationary crushing plant
 - Crushed aggregates from a mobile crushing plant
 - NCC Green Asphalt[®] (in verification)



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Experiences from our work with EPDs

- Helped us identify materials and production processes with large environmental impact, "hot spots"
- Increased awareness on the potential of EPDs as a way to demonstrate and market our environmental work
- Having EPDs for our products gives us a competitive advantage and helps us win bids
- EPD is a good way to demonstrate our vision "provide superior sustainable solutions"
- We are an active part in the development of EPD requirements
- Difficult to compare EPDs published under different schemes



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Our future plans with EPDs and LCA

- Implement an EPD process for our industrial business area
 - Crushing plants
 - Asphalt plants
- Publish EPDs for large infrastructure projects
 - Tunnels
 - Highways
- Increasingly require EPDs from suppliers for the main construction materials
- Put pressure on our clients to demand EPDs



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