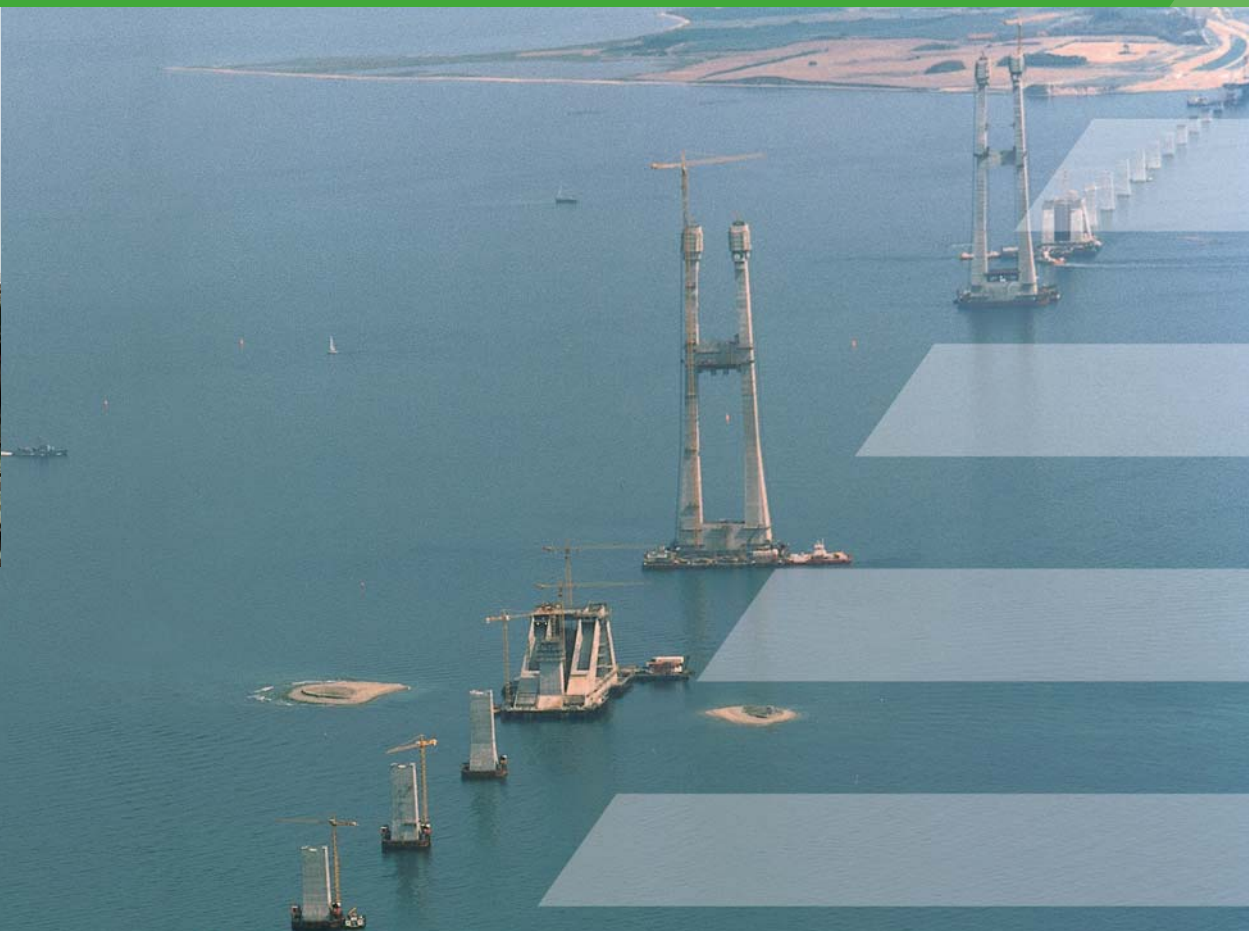


East Bridge over the Great Belt, Denmark

Client: A/S Storebaeltsforbindelsen
Engineering: COWI Consult
Realisation: BAM Civiel (in joint venture)
Sum: € 360.000.000
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BAM Civiel

The East Bridge over the Great Belt is an important part of the permanent link between Denmark and Sweden. The bridge has an overall length of 6.8 kilometres and is designed for road traffic only. The main span of the East Bridge consists of a suspension bridge with a central span of 1,624 metres and 65 metres of headroom for ships. The suspension bridge's side spans are 535 metres in length and the side bridges each span 193 metres. The substructure was built entirely of concrete, including the 254-metre-high pylons for the suspension bridge. The main and side span car decks are all steel. The project was divided into a number of stages. Firstly, the caissons for the pylons and anchor blocks were prefabricated in a

temporary (excavated) construction dock, while several caissons and the side-span pillar shafts were prefabricated on a quay. When finished, the caissons were towed into position, sunk and finished off. The two abutments and one of the pillars were constructed in situ. Several pontoons were moored alongside the caissons as work platforms. Around 150,000 cubic metres of concrete of the total of 250,000 cubic metres were poured during this stage. Pouring the concrete for the pylons involved pumping it up to a height of 254 metres with no intermediate booster station. In total, around 150 staff and 800 construction workers in shifts were involved in building this immense bridge.