
Jens Fussing—

Technical Director, Middle East



Experience Overview—

Jens has over 24 years' experience in the design and documentation of a wide range of structures throughout the Middle East and Europe.

He has particular expertise in high-rise structures and the use of precast building systems.

Jens re-joined BG&E in 2015 as Technical Director, Middle East.

Project Experience

- Masdar N1R, Abu Dhabi
- Sterling Towers – Business Bay, Dubai
- Aloft Hotel – Deira City Centre, Dubai
- Plot 18 Hotel Tower – Business Bay, Dubai
- Al Maryah North Tower, Abu Dhabi
- Al Maryah South Tower, Abu Dhabi
- The OPUS – Dubai Business Bay, Dubai
- Dubai International Finance Centre Plot PA-05, Dubai
- Dubai Waterfront – Madinat Al Arab Plot D-5B, Dubai
- Dubai Motorcity – The Automall, Dubai
- Dubai Marina District 7WX, Dubai
- Burj Dubai Development – The Residences Phase 1, Dubai
- Higher Colleges of Technology for Men, Dubai
- Lusail Development, Doha, Qatar
- The Point (former Point Hyllie) - Tower , Sweden
- Borgmestervangen - Tower , Denmark
- Carlsberg Byen Towers, Denmark
- The Polar Star Tower, Sweden
- Urban Mountain, Norway
- LEGO Brand house, Denmark
- Copenhagen Towers 2 Office – Ørestaden, Denmark
- Copenhagen Arena – Ørestaden, Denmark
- 5 Office Towers - Old Scala in Copenhagen, Denmark
- Bella Sky – Hotel, Denmark
- Residential Tower - Carlsberg Properties, Plot no. 8, Denmark
- Panum Laboratory Tower - Copenhagen University, Denmark
- Charlotte Tower - Hotel apartments, Denmark
- Høje Taastrup Office Tower, Denmark
- Viva Towers – Residential, Tanzania
- FC Gabala – Azerbaijan
- Office Tower - Batumi Business Centre, Georgia Royal Danish Emb

Position—

Technical Director, Middle East, BG&E International Consulting Engineers

Qualifications—

- B.Sc. Structural Engineering
- Danish Society of Engineers (IDA)
- Society of Engineers UAE

Career Milestones—

- 2015 / Re-joined BG&E, Dubai
- 2009 / Joined COWI, Denmark
- 2005 / Joined BG&E, Dubai
- 2001 / Joined United Precast Concrete, Dubai
- 1999 / Joined Birch & Krogboe A/S, Denmark
- 1995 / Joined Peter Lind A/S, Denmark
- 1992 / Joined H.S. Hansens Fabrikker A/S, Denmark

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- Royal Danish Embassy, Paris
- Royal Danish Embassy, Tehran
- Al Owais Shopping Mall in Khawaneej, Dubai
- BMW Car park Sheik Zayed Road, Dubai
- Mall of the Emirates Car Park, Dubai
- Festival City – British and American Boys & Girls School, Dubai
- AX243 Car park extension of Dubai International Airport, Dubai
- Schifters Kvarter, Central Copenhagen, Denmark
- Fire drill building for Copenhagen Fire Department, Denmark
- New headquarters for Statoil in Copenhagen, Denmark
- Lucent Technologies, Copenhagen, Denmark
- Grydemoseskolen (School), Copenhagen, Denmark
- Gate building, Lejre Forsøgcenter (viking museum), South Copenhagen, Denmark
- Viborggade Kindergarten, Copenhagen, Denmark
- Rebæk Søpark Centre – Zoo City, Copenhagen, Denmark
- Fiat Næstved, South Copenhagen, Denmark
- Pyramid-shaped buildings, Science park, Copenhagen, Denmark
- Scaniadam Ford Ballerup, Copenhagen, Denmark
- Shopping Mall in Solrød Strand, Copenhagen, Denmark
- Villas in Denmark
- Lyngby Uddannelsescenter (School), Copenhagen, Denmark
- Kryolitgrunden, Copenhagen, Denmark

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Detailed Project Experience—

Structural Engineering

Project Name : The Address Towers DCH – Dubai Creek Harbor, UAE

Project Size : Hotel and Serviced Apartment tower 3B + G + 49 + R with height total height of 184m
Residential Tower 3B + G + 40 + R with height total height of 152m

Year : 2017 - ongoing

Client : EMAAR

Architect : BSBG

Description

The Address Towers takes part of the Dubai Creek Harbor development and is integrated with retail in the lower levels. The concept development consisted of exploring multiple structural options for the lateral stability, floors and foundations for the entire development on the plot.

The lateral stability of the towers is secured by a hybrid structure of a central core wall with link beams, floors and columns acting as frame element and outrigger structure at the plant floor levels.

Project Name : Carlsberg Tower CA6, Residential Tower – Copenhagen, Denmark

Project Size : 2B + G + 36 + R with height total height of 124m

Year : 2017 - ongoing

Client : Carlsberg Byen

Architect : Wingårdhs and VLA

Description

The CA6 Tower is part of the Carlsberg Byen development which has a cluster of 9 towers in total. The concept development consisted of exploring multiple structural options for the lateral stability, floors and foundations.

Two different concept are developed, one which is conventional cast in-situ structure where the lateral stability is secured by a hybrid structure with central core wall with link beams, floors and columns acting as frame element, and tube in tube hybrid with a cast in-situ central core structure and having the outer frame and floors as prefabricated elements.

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Project Name : Al Maryah South Tower, Residential and Hotel Tower – Abu Dhabi, UAE

Project Size : 5B + G + 43 + R with a total height of 197.5m

Year : 2016 - ongoing

Client : Gulf Related

Architect : Elkus Manfredi

Description

The Al Maryah South Tower is part of the Al Maryah development and is integrated with Al Maryah Shopping mall in the lower levels. The concept development consisted of exploring multiple structural options for the lateral stability, floors and foundations. The lateral stability of the towers is secured by a hybrid structure of a central core wall with link beams, floors and columns acting as frame element one outrigger structure at mid height at the plant levels and the eccentric core structure for the upper half whereas the lower half of the tower have blade walls between hotel rooms.

Project Name : Plot 18, Hotel and Serviced Apartment Tower – Dubai, UAE

Project Size : 2B + G + 31 + R with a total height of 150 m

Year : 2015 - ongoing

Client : Omniyat

Architect : Fosters & Partners

Description

The Plot 18 development is located in the Business Bay, Dubai and consist of two towers interconnected by a common stair well hinging the two buildings together. Both of the two towers have eccentric cores and have outriggers at the MEP plant levels. Typical floors are post tensioned concrete slabs, remaining floors are conventional reinforced slabs. There are two exceptional structural features in the project, one are the up to 35m tall composite columns and one are 15m tall V-shaped transfer structure picking up load from 25 floors.

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Project Name : *The Sterling Residential Towers – Dubai, UAE*

Project Size : 2B + G + 25 + R with a total height of 100 m

Year : 2015 - ongoing

Client : Omniyat

Architect : FHSI Architects and Arkiplan

Description

The Sterling development is located in the Business Bay, Dubai and consist of two independent towers, each tower are interconnected with a 5 story villa and retails building at podium level. The towers have eccentric cores located apart from one another and the lateral stability is taken care of by the hybrid structure of floor plates and columns interacting with the core. Typical floors are post tensioned concrete slabs, remaining floors are conventional reinforced slabs. There is one exceptional structural feature which is the 7 m tall V-shaped transfer structures.

Project Name : *The Polar Star Residential Tower – Gothenburg, Sweden*

Project Size : 230m Tower

Year : 2014 - ongoing

Client : Serneke

Architect : SOM

Description

Winner of the “GothenBurj” design competition regarding a 230m tall residential tower in Sweden. Structural design.

Project Name : *Urban Mountain Office Tower – Oslo, Norway*

Project Size : 79.000m² height 135m

Year : 2014 - ongoing

Client : Entra

Architect : Schmidt Hammer Lassen Architects

Description

Winner of the Nordic Built Challenge in Norway “Urban Mountain” which include the refurbishment and extension tower be 79.000m² and 135m tall and thereby the tallest tower in Norway.

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Project Name : Copenhagen Tower 2 Office Tower

Project Size : 21.000m² B + 22 +R

Year : 2013 - ongoing

Client : Sjælsø Management

Architect : Fosters & Partners

Description

Re-engineering and converting of the original steel super structures into a reinforced concrete super structure including both precast concrete members and cast in-situ concrete members (cores) causing a 25% saving on the construction cost.

Project Name : Office Tower – Batumi Business Centre, Georgia

Project Size : 21.000m² B + 35 +R height 200m

Year : 2012 - 2013

Client : Batumi Railways

Architect : NA

Description

Third party review

The main core, sway frame and outriggers are used to stabilise the building.

Incorporation of Ferris Wheel and Mast in the tower top including transfer structures.

Reinforced bored piled raft foundations, ground conditions are strengthened due liquefaction in the seismic event.

Project Name : Viva Towers – Dar Es Salam, Tanzania

Project Size : 31.000m² B + 25

Year : 2012 - 2013

Client : NA

Architect : NA

Description

Detailed design

Conventional cast in-situ concrete framed structures with in-fill blockwalls.

Transfer structures.

Reinforced bored piled raft foundations.

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Project Name : Carlsberg City Residential towers – Copenhagen Denmark

Project Size : Tower ranging from 50 – 120m

Year : 2009 - ongoing

Client : Carlsberg City

Architect : Wingårdhs Architects

Description

Concept development of 9 residential towers on the Carlsberg plot in Copenhagen. Client advisor for Carlsberg City and third party reviewer.

Project Name : The Opus mixed use tower – Business Bay, Dubai

Project Size : 148.000m² 6B + G + 21 + R height 93m

Year : 2008 - 2016

Client : Omniyat

Architect : Zaha Hadid

Description

The impressive landmark project The OPUS is developed by star architect Zaha Hadid and is located in Business Bay near the new creek. The project is a high-end office building which consists of two tower structures interconnected at roof level by a sky bridge and at the ground floors and basement levels by a common floor plate.

The building itself has a spectacular appearance dominated by a highly complex geometry of the façade. Inside the building, a theme of leaning columns has been adopted as well. The project is carried out as design and build project.

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Project Name : Dubai Waterfront –Madinat Al Arab Plot D-5B – Dubai, UAE

Project Size : 3 Residential Tower ranging from 22 – 47 levels

Year : 2007 - 2008

Client : Sunland

Architect : BSBG

Description

The Project Plot D-5B is developed by Emirates Sunland and is located in Madinat Al Arab which is part of the new major Nakheel Dubai Waterfront Development. The Madinat Al Arab is a new city for 1.7 million inhabitants.

The project consists of three multipurpose towers of between 22 and 47 floors, a seven-floor multifunctional podium structure for villas, retail businesses, services functions and offices. Drop-off zones are carried by elevated bridges and car parks are located above the podium.

Project Name : Dubai International Finance Centre Plot PA-05 – Dubai, UAE

Project Size : 230.000m² 5B+GF+M+88 floors height 370m

Year : 2007 – 2009

Client : Roya

Architect : Broadway Malyan

Description

The project consists of a 370-meter high tower which conceptual designed. The tower is a multipurpose tower with offices, a six-star hotel, hotel apartments, apartments and a helipad. At podium level there are villas, retail businesses, drop-off zones and a car park.

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Project Name : Dubai Motorcity – The Automall, UAE

Project Size : 500.000m² 39 level office tower and 31 level hotel tower

Year : 2006 – 2009

Client : Union Properties

Architect : Burt Hill

Description

The Automall, which is located next to the race track, is part of the Motorcity development is located in Dubai Land.

The project consists of one 39-floor office tower, one 31-floor hotel tower (The Renaissance Hotel), a 500-meter long mall and two six-floor podium structures. The project is being delivered under a design and build contract.

Project Name : Marina Promenade District 7WX – Dubai UAE

Project Size : 189.000m²

Year : 2005 – 2008

Client : EMAAR

Architect : Arif & Bintoak

Description

The 7WX project comprises six residential towers varying from 30 to 50 floors with a seven-level podium interconnecting the towers. The project is being delivered under a design and build contract.

The podium serves a multifunctional purpose with car parking, restaurants, shops, villas, swimming pools, tennis and squash courts, water features and technical rooms.

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Project Name : Burj Dubai Residences – Dubai UAE

Project Size : 175.000m² 6 tower ranging 25 to 40 levels

Year : 2004 – 2007

Client : EMAAR

Architect : Arif & Bintoak

Description

The Residences is the first stage of a major development by EMAAR on land previously occupied by the Department of Defence, UAE.

Phase 1 comprises five residential towers and one serviced apartment building of between 25 and 40 floors and complimentary podium structures. The project is being delivered under a design and build contract.

Project Name : Masdar N1R – Abu Dhabi, UAE

Project Size : 71.000m² Residential low rise building

Year : 2015 – 2017

Client : Masdar

Architect : Arif & Bintoak

Description

The proposed project Neighbourhood One Residences (N1R) is part of the Masdar City Development located in Abu Dhabi, U.A.E. adjacent to the Abu Dhabi International Airport. The 5 story apartment buildings are interconnected by footbridges and sit on top of the 3 story car park structure. Both the car park structure as well as the apartments structures are carried in a moment framed precast building system. The project itself does include a significant amount of prefabricated components such as the structures, facades, MEP risers and horizontal ducts as well pods. The was delivered under a design and build contract.

Project Name : Royal Arena Copenhagen – Denmark

Project Size : Multi Arena 15.000 seats

Year : 2012 – 2016

Client : Real Dania

Architect : 3XN

Description

Client advisor for the structures including alternative proposals for foundation, bowl and roof.

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Project Name : ***LEGO Brand House – Billund, Denmark***

Project Size : 13.000m² Experience Venue Building

Year : 2013 – 2016

Client : LEGO

Architect : BIG

Description

Concept development of the new LEGO Brand house with a 40x40m large open plaza with a mega transfer structure on top.