





BESIX GROUP EXCELLING IN CREATING SUSTAINABLE SOLUTIONS FOR A BETTER WORLD

BESIX is a leading Belgian business group, operating on five continents in construction, real estate development and concessions.

Its iconic achievements include Dubai's Burj Khalifa, the world's tallest tower; the Grand Egyptian Museum on the Giza pyramids plateau: the Ferrari World Leisure Center in Abu Dhabi, the Carpe Diem building in Paris's La Défense district; the Al Wakrah Stadium, built for the FIFA World Cup Qatar 2022; and the Jebel Ali water treatment plant, an ongoing project that will treat Dubai's entire wastewater to the highest environmental standards.

BESIX's unique expertise is ensured by it having an in-house Engineering Department, at the forefront of contemporary technologies. This department is based on the exceptional know-how of its experts, many of them academic references in their respective fields. The Engineering Department enables BESIX to realize unique, highly complex projects, particularly in terms of technical and environmental aspects.

BESIX is an international reference in the building, maritime works, environment, sports and leisure facilities, industrial buildings, road, rail, port and airport sectors. The Group is currently working on dozens of projects in around 25 countries on five continents.

Its policy of sector diversification is also bearing fruit. Its Concessions & Assets activities have taken off in recent years. BESIX's expertise allows it to handle projects from financial structuring to design and construction through to maintenance. For its part, the Real Estate Development activity led by BESIX RED offers innovative real estate solutions in the residential, commercial and office sectors in five European countries.

On each of its sites, BESIX pursues excellence in terms of quality and safety and in reducing its environmental footprint. Faithful to its mission: Excelling in creating sustainable solutions for a better world.





WE OPERATE IN 25 COUNTRIES ON 5 CONTINENTS



Dubai, United Arab Emirates See page 06

02 | Address Downtown Dubai

Dubai, United Arab Emirates See page 07

03 | ADNOC

Abu Dhabi, United Arab Emirates See page 08

Doha, Qatar See page 10

05 | Four Season Hotel

Manama, Bahrain See page 11

06 | Carpe Diem

Paris, France See page 12

Rotterdam, The Netherlands See page 15

08 | Mohammed VI Tower

Rabat, Morocco See page 16

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Cairo, Egypt See page 17







THE ADDRESS DOWNTOWN DUBAI

DUBAI, UNITED ARAB EMIRATES

Client

Period

196 upscale rooms, 626 residences, as well as eight



EMIRATES TOWER HOTEL

DUBAI, UNITED ARAB EMIRATES

Client **Period**







BAYNUNAH ABU DHABI, UNITED ARAB EMIRATES

Client

Period Height



ADMA OPCO & ADGAS ABU DHABI, UNITED ARAB EMIRATES

Client **Period**

Company. Fitted with state-of-the-art technology, the include an exterior glazed wall, an internal moucharableh wall inspired by traditional Arabic architecture and an







TORNADO TOWER (QIPCO)

Client

Period

the Khalifa Stadium.



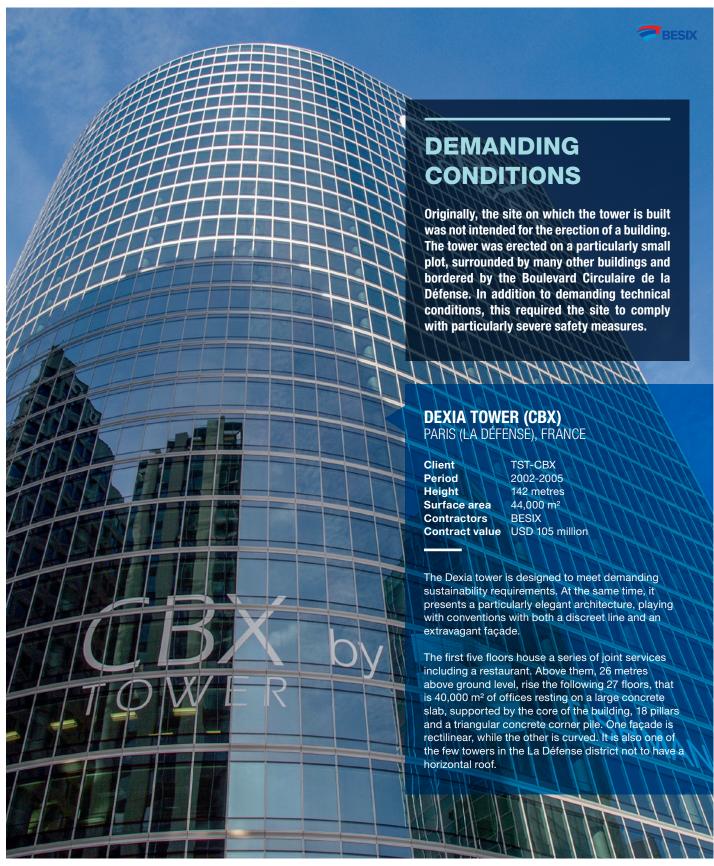
FOUR SEASONS HOTEL

Client

Period

200 luxury bedrooms and 30 suites. Special to the practice Skidmore, Owings and Merrill.







TERRACED TOWER ROTTERDAM, NETHERLANDS

Client Provast
Period 2018-2020
Height 100 metres

The Terraced Tower takes its name from the terraces that will occupy the entire width of the housing units, offering a spectacular view of the city of Rotterdam and the River Maas. A specific feature of the building is the way it is partly integrated into the dike. The tower is exclusively residential.



MAAS TOWERS ROTTERDAM NETHERI ANDS

Client OVG Projectontwikkelin

Period 2006-2009 Height 165 metres

The Maas Towers consist of two adjacent towers, one 108 metres and the other 165 metres tall. The façade of the tallest tower has a gradated colour finish, from anthracite at its base to white at its summit.

The construction presented a series of technical challenges, including the fact that part of the building's foundations are submerged in the river.





NEW ORLEANS

Client

Period



MONTEVIDEO

Client

Period







NILE CITY

Period



SOFAZ TOWER

BAKU, AZERBAIJAN

Period

CLIENT CENTRIC ENGINEERING CREATES MAXIMUM VALUE

ENGINEERING

At all times our clients and site teams can rely on the expertise and creativity of our in-house engineering department, with offices in Brussels and Dubai. Experiencing a steady growth since more than 4 decades today we are over 150 dedicated people having the right attitude, competences and experience to maximize the value of our projects for and with our clients. We honor the following principles:

- Supertise at the service of our clients objectives. When developing the design of a project we spend as much time as possible in understanding and clarifying the clients brief. We can use our experience from projects and partner network around the globe to propose alternatives which increase the value for our clients. Having all necessary engineering knowledge 'under one roof' allows an efficient and integrated approach
- First time right. Preparation and collaboration are key in achieving our first time right principle. To this end, we insure intense collaboration between on and off site teams.
- Nesult oriented. Because we are embedded within a contractor we work on our 'own' projects. What distinguishes us from external engineering offices is that we always need to go till the last details.
- Agile. In a fast changing world we see flexibility and agility as a core competence to create value. We are continuously analyzing which competences we should add to our engineering capabilities in order to address our client needs.
- Y Focus what we do best, and link to the rest. While we are proud of who we are we also believe in the strength of partnering. We are constantly exploring and looking for new and sustainable partnerships in our efforts to create value.

BESIX has built up a broad experience in megaprojects. By aligning our expertise with our client demands, the BESIX Engineering teams have developed centers of excellence focused on tall buildings (high rise, stadiums, offices, industrial), marine works (jetties, quay walls, breakwaters) and civil works (tunnels, bridges, infrastructure).

In order to ensure an entire supply chain approach our teams consist of architects, MEP engineers, structural and geotechnical engineers, façade and sustainability experts, concrete specialist, BIM managers and BIM experts. Besides our strong commitment to constructability and safety BESIX Engineering department can build on the expertise of an integrated methods and planning department.

By uniting the knowhow of our experts, many of which are also academic authorities in their field, we can offer full-fledged solutions addressing all of clients expectations and beyond.

VALUE ENGINEERING

BESIX is experienced in providing 'value engineering', a creative and organised process of thorough study and analysis that combines the insights of multidisciplinary teams, benefiting the entire life cycle of a project. The goal is to limit building costs, maximally reduce risks and prolong a project's life span without compromising the functional objectives. This holistic, integrated design approach is crucial in completing demanding DBM or PPP projects.

Visit the webpage www.besix.com/en/about/in-house-engineering-and-bim





BIG IN BIM

"BIM" is the acronym for "Building Information Modeling". This is a set of methods and technologies that optimize the design, execution and management of a construction project. With BIM, the construction work is represented by means of a digital model, which collects all relevant information of the project. Much more than 3D, BIM makes it possible to share centralized and synthesized information. BIM has become a 'must-have' in today's construction world, where the amount of information produced has never been so high.

For BESIX, BIM is the cornerstone for interfacing between the physical and digital aspects of the construction business. Since 2010, we have built a strong team of experts that has participated in a large number of tenders and projects around the world.

At the end of 2017, BESIX passed a major milestone by becoming the first Belgian construction company to obtain BIM Level 2 certification by meeting the standards of the PAS 1192-2 standard (information management during the design and construction phases of BIM projects). This certification sets BESIX apart from the competition and offers significant competitive advantages, including an acceleration of tendering processes and positive effects in terms of risk control, safety and productivity.

In its vision for the future of BIM, BESIX is looking to articulate its ambitions around four strategic axes:

- understanding the market, client needs and expectations (both internal and external) and industry trends;
- searching for reliable solutions, by enriching and sharing our knowledge, and using BIM as a catalyst for implementing new technologies;
- consolidating our experience by creating synergies between BIM managers across the Group and centralizing our knowledge in this field;
- developing the reputation and visibility in the field of BIM that BESIX has enjoyed for several years.



OUR EXPERTS



DESIGN MANAGER

Ensures development of an integrated design



GEOTECHNICAL EXPERT

Specifies site investigations, analyzes results and establishes a geotechnical design



METHOD & PLANNING ENGINEER

Ensures constructability of our designs in terms of safety and productivity



STRUCTURAL ENGINEER

Is responsible for all engineering aspects



BIM MANAGER

Transforms the project's needs into clear guidelines



PRODUCTION CENTER

Takes care of producing the necessary drawings and models



SUSTAINABILITY EXPERT

Develops concepts and solutions to improve the performance of our projects regarding environmental impact and energy consumption



CONCRETE EXPERT

Specifies the requirements of the concrete mix in accordance with the design

INNOVATION

SMART BUILDINGS

In 2018, BESIX Group and Proximus, the Belgian leading telecommunication and ICT company, announced a strategic partnership. BESIX Group and Proximus will partner to co-create innovative solutions and deliver a superior end-user experience in the area of Smart Buildings.

In the construction business, applying the concept of Smart Buildings translates into applying a layer of innovative solutions on top of existing or new infrastructure or buildings. In this context, Proximus and BESIX want to propose Smart Building solutions in four areas - Hospitality, Working Environment, Building Efficiency & Insights and Safety & Security – while putting the end-user experience at the center of their ambitions.

- BESIX Group has the capabilities to manage and oversee complex projects in Buildings & Infrastructure, and has a large and recognized portfolio of clients. Building upon its solid position at the cradle of the construction life cycle, BESIX will enlarge its offer with integrated smart solutions, hence creating true one-stop-shop value.
- Proximus developed a remarkable experience in innovative technologies and proposes valuable expertise and applications for Smart Buildings such as Internet of Things (IoT) solutions to improve the comfort of the occupants, visual analytics capabilities and advanced digital workplace services. Proximus is also at the center of a growing ecosystem composed of start-ups, established companies and R&D centers and wants to position itself at the beginning of the construction life cycle and integrate the Smart Buildings layer at the earliest possible stage.





At BESIX we learn from the past, take up a pioneer role in the present and at the same time have our eyes set on the future. The BESIX Group will remain competitive by offering new unique services that cater to the evolving needs of the market. To that end, BESIX launched its own Innovation Program "Unleash".

The goal of UNLEASH is to unlock the potential of BESIX's employees by creating a culture that encourages them to formulate their ideas and put them into practice.

Employees are given the opportunity to submit their ideas on the Unleash portal which are then reviewed by a team of Innovation ambassadors. Ideas that pass the review can go into a development phase where Inventor Teams can further develop and enrich them. Others might get selected for implementation straight away, as

they are relatively simple to perform and require less time and energy than the previous ones. In the final stage, the best ideas are pitched to the Innovation Board, who selects and rewards the winning ideas.

In order to manage these ideas efficiently, the Group selected the CogniStreamer platform. This platform encourages innovation through collaboration. It supports us in submitting and generating new ideas, providing rapid feedback, sharing info and releasing current "hidden" innovation at Group level.

☑ Visit the webpage www.besix.com/en/about/innovation





QUALITY, **HEALTH, SAFETY** & ENVIRONMENT

Striving to zero incidents or towards achieving quality excellence is more than 'a journey'. In our continuous efforts to pay 'attention to quality, health & safety and environmental impact' permanent company values, we better call it an 'adventure'. The road to improving a QHSE culture can't be mapped out or programmed...

Our goals:

→ First time right

to guarantee delivering a project with the right quality while respecting agreed timings. This means we put strong focus on preparation, planning, quality assurance and quality control throughout all phases of a project.

☑ Excellent safety

which means never being at at-risk, will first of all prevent our workers from getting injured during the execution of their job.

Minimizing the impact of our operations to the environment

in order to maximize sustainability, which requires BESIX to put in place an environmental management programme that focusses on aspects like energy consumption, waste, hazardous products, soil, etc.



Our integrated management system

The organization as a whole and every individual employee in particular plays an important role in guaranteeing this incident free working environment and preventing any adverse impact of your activities on the environment whilst ensuring the level of quality expected by our Clients.

BESIX' commitment related to Quality, Health & Safety and Environment is set out in the corporate QHSE policy statement which, together with our policies on good governance, form the basis for our Integrated Management system (IMs).

Related to QHSE, this system is a combination of processes and procedures that describe how BESIX implements QHSE in its daily operation, and a number of objectives and targets to ensure continual improvement of our QHSE performance.

The Integrated Management system is certified since several years according to the following standards:

- ISO 9001
- ISO 14001
- SCC/VCA ** 2008/5.1 (only BESIX S.A. Benelux-France region)
- OHSAS18001

In striving for continual improvement, BESIX carries out an in-depth internal and external audit programme according to which all business processes, both on site and in our offices, are audited on a frequent basis.

☑ Visit the webpage www.besix.com/en/about/ghse

CORPORATE RESPONSIBILITY

BESIX Group wants to contribute to a safer and greener planet and build a better place to live in. The goal is to go beyond the legal requirements in the social (People), environmental (Planet) and economic (Growth) areas, and that on a voluntary basis. As a global player the Group takes into account the specificities and the environmental requirements of each country while developing its CR approach.

Our CR priorities are focused on four pillars:

☑ People

BESIX is committed to guaranteeing the well-being and safety of its employees. At the same time, we want to offer enough career development opportunities and social involvement possibilities.

☑ Engineering

Our engineers strive to create sustainable building solutions.

☑ Environment

We aim to minimize our impact by reducing ${\rm CO_2}$ and waste, while attempting to attain certifications (LEED, BREEAM, ...) for our projects.

☑ Business Behaviour

BESIX Group has a commitment to purchase sustainably, to promote circular economy and to follow the codes of conduct.

In striving for these priorities, BESIX Group has to take into account 5 main challenges of its industry: climate change, society's ageing, the growing need for green buildings, the lack of green energy and drinking water and the lack of talent management. The combination of these CR pillars with the industry challenges results in the following commitments for the Group:

- Enabling a low carbon & waste society
- Encouraging green solutions
- Taking care of respectful & sustainable operations
- Being a preferred employer
- Increasing employees' safety and comfort
- Integrating codes of conduct
- Promoting social, local and economic development

Visit the webpage www.besix.com/en/about/csr





