Eko Atlantic, adjacent to Victoria Island in Lagos, will eventually cover 10 million square metres and is already visible from space. The groundwork has restored coastline eroded by the sea and is providing vital real estate for people to live and work in Lagos, the world’s fastest-growing megacity with a population soaring towards 25 million. However, coastal conservation and city expansion are just the beginning. Eko Atlantic’s state-of-the-art infrastructure and world-class design are also paving the way for Nigeria to become a top 20 global economic power within the next decade. The country has already overtaken South Africa as the continent’s largest economy and Eko Atlantic will establish itself as the new financial headquarters.

Entirely privately funded, this 21st-century metropolis is creating a surge in local prosperity and will be a place where global business gets done. Top-tier companies, investors and property seekers from around the world are being attracted to stunning new developments across Eko Atlantic’s ten distinct districts. The great vision for this new city is fast becoming a reality.

Eko Atlantic is an emerging city unlike any other. Rising on land reclaimed from the Atlantic Ocean, it is a symbol of Nigeria’s proud and ambitious spirit: a new global landmark setting a new standard.

The grand vision is fast becoming a reality on the coast of Lagos.

EKO ATLANTIC
NIGERIA’S NEW GLOBAL CITY
I am highly delighted to be here today on my maiden visit to the construction site of Eko Atlantic City. This landmark event is continuing the good news narrative that Nigeria must now embrace permanently.

I want to congratulate South Energyx Nigeria Limited, the good government of Lagos State and the good people of Lagos state, Messrs. Dredging International Limited, and all the financial institutions, especially the First Bank of Nigeria PLC, First City Monument Bank, Guaranty Trust Bank, BNP Paribas Fortis, and KBC Bank for this most outstanding initiative.

I've received briefings about the fact that the construction of Eko Atlantic is benefiting from cutting-edge technology with special attention paid to climate conditions, including the perennial rush of ocean surge that has posed serious challenges to human life and property on the coast of Victoria Island that has been articulated by the Governor of Lagos State. So we are quite pleased with this project.

When completed, this Atlantic city will not only benefit the promoters of the project but it will also be an important addition to our nation’s aim to promote tourism and good living. The project is a great example of partnership which brings together private individuals and companies who have the knowledge and requisite expertise to transform land lost to erosion into a delightful ocean city.

International interest in Eko Atlantic has risen steadily, fuelled by overwhelming praise from notable figures, especially His Excellency Goodluck Ebele Jonathan, the President of the Republic of Nigeria.

We hope you share the sense of achievement at just how far we have progressed in developing a global landmark, highlighting Nigeria’s rise to become the new financial capital of Africa.
“Whilst many may see only a civil works and engineering project and the signs of an emerging new city in the Eko Atlantic project, I see much more than that.

I see the symbol of man’s undying spirit in Lagos to conquer nature.

This is because the ability of the human civilisation to survive and prosper on this planet has been a story of a constant battle with nature.

Many times over, the human spirit has triumphed.

Although it is not finished, Eko Atlantic is already a success story. The road that was lost to the sea is back and motorable. The buildings that were deserted are occupied, property values have been restored and multiplied, and more buildings are springing up in anticipation of the opportunities that lie ahead. Thousands of people are earning a living on this historic shoreline. The properties that used to flood as a result of rising waves now enjoy a significant and most welcome respite because of the protection now afforded by the Great Wall of Lagos, which is still not completed. The human spirit has prevailed and yet the battle is only halfway fought. Yes, only halfway, because we will not lie at ease until the work is finished. When all is done, a new city will emerge here from what was once a devastated area as a result of nature’s onslaught. But that devastation is now history.”
EKO BOULEVARD

Gateway to the city and heart of the Business District, the city’s iconic centrepiece is now rising.
OVERVIEW

Eko Boulevard is an 8-lane arterial city road over 1,500 metres long with a distinctive roundabout feature at its northern end connecting to the existing Victoria Island road, Ahmadu Bello Way. It will be the grandest thoroughfare in Lagos when complete, wider than any road in the country other than its highways.

PAVING

To date, pre-cast concrete paving blocks have been laid on Eko Boulevard stretching over 420 metres in length. Currently, an unpaved section of the road has been opened to provide access for bridge construction to commence. This bridge will allow the waterway system in Eko Atlantic to run under Eko Boulevard.

ROADS AND KERBS

The Boulevard’s road design and construction is best practice. However, to achieve its impressive scale and visual impact the highest level of precision is required, particularly in the setting out by the surveyors and more especially the laying of kerb stones. Construction begins with the substructure (sub-base) of the road, comprising sharp sand built up in layers, watered and compacted to achieve a solid foundation. A graded crushed stone layer (base course) is then placed on the sand sub-base and then rolled and compacted to design levels. On this stone base course, kerb stones are laid to the edges of the road according to precise alignments dictated by the engineer’s design. Between these kerbs, the pre-cast concrete blocks are laid on a thin sand bed.

MATERIALS

The materials being used in the construction of Eko Boulevard are interlocking pre-cast concrete paving blocks made in an on-site factory, as are the kerbs and paving stones which line the road.

These are all compliant with the highest international standards. At eight centimetres thick, the interlocking blocks are designed to carry a heavy load of traffic.

It will be the grandest thoroughfare in Lagos, wider than any road in the country.
Jewel by name, jewel by nature. Each of these five luxury residential towers is named after the colours of some of the world’s finest pearls: Eko Aqua Pearl, Eko Indigo Pearl, Eko Champagne Pearl, Eko White Pearl and Eko Black Pearl. And for good reason.

Eko Pearl offers you a choice of sumptuous two- and three-bedroomed or penthouse apartments with an uninterrupted view of the bustling marina and sweeping Atlantic Ocean, supported by some of the finest amenities in the city such as a superb swimming pool and world-class tennis courts.

The towers will stand on the harbour front in a self-contained area with safe and secure parking, less than 500 metres from the new highly desirable financial centre of Lagos. Construction of these sought-after towers is well under way, with a delivery date of July 2016.

The potential for investment is huge, but the opportunities are narrowing. The first tower is sold out and sales on the second tower are exceeding expectations.

Don’t miss the opportunity to own a part of these rare pearls.

For more information please contact sales on:
Tel: +234 803 334 4242
sales@ekopearl.org; www.ekopearl.org
Infrastructure and building construction news

WORK IN PROGRESS

WATER-BASED UTILITIES

The water, sewage and storm drains for Eko Atlantic are a groundbreaking undertaking for Lagos. Currently, there are no existing centralised mains services for water and sewage in the city. All major developments therefore have to provide for their own services as they cannot draw on a central service. Eko Atlantic’s centralised services are being built to world-class standards. Over the next few months, the laying of storm water and sewer drains will continue with an emphasis on the Marina District, Downtown and Avenue 3. Laying of mains for water supply piping will continue in Eko Boulevard and Avenue 1.
EKO ATLANTIC WATERWAY

The sheet piles for the first section of Eko Atlantic's waterway have arrived. The specialist rig required to drive the piles has also arrived and is currently being commissioned by the manufacturers. Driving of the first section of piles has now started.
**Bridges**

*Bridge 7* on Avenue 1, directly west of Eko Boulevard, is the city’s most advanced. All superstructure works are now nearing completion with the exception of the bridge deck, construction of which will commence soon.

*Bridge 13* on the Marina District boulevard is the next most advanced, located at the northern gateway to the Marina District. All piling works for this are complete and works on the bridge abutment (end walls) and piers are under way.

*Bridges 8, 9 and 11* are located at the main junction of the East-West and North-South canals. All piling works for these are complete and the pile caps (capping beams) are currently under construction.

*Bridge 5* crosses Eko Boulevard. Access to the canal level is under way and piling is about to commence.

*Engineering note:*

All bridges in Eko Atlantic employ a post-tensioning system for their bridge deck reinforcement. This technique uses cables under stress, rather than reinforcing rods. This is a common approach worldwide.

**Underpass Piling**

The Eko Atlantic underpasses were introduced to improve traffic flow by creating grade separation, in other words, splitting converging traffic at different levels. There are two underpasses that serve traffic exiting the city and originating from the Marina and adjacent districts. The challenge here was to provide storm drainage at the lower level via gravity without the need to install pumps. Although this initially seemed difficult, with careful design modification of a large section of the storm drain network in Phase 1, a solution was implemented.

**Roadworks**

Over the next few months, roadworks will be carried out across the following districts: Harbour Lights, Marina District (inner and outer ring roads), Downtown, Avenue 1 and Avenue 3 (with direct access to Ahmadu Bello Way).

This work predominantly comprises the build-up of the sand sub-base in all the above areas, with laying of the crushed stone base course in the more advanced roads. The laying of kerb and block paving will continue in Avenue 1.

**Akin Adesola Road Opening**

The opening of Akin Adesola Road now introduces a second entrance into Eko Atlantic City from Victoria Island. Crucial for development, this significantly reduces the drive distance for trucks carrying rocks to the sea wall, helping to speed up construction.

Previously, the route from the entrance of Eko Atlantic City to the sea wall was around five kilometres in length. This new access reduces the distance to just two and a half kilometres. Furthermore, it provides unhindered access to the completion of roadworks in Phase 1 and 2.

**Electricity and Telecoms**

Overhead electrical power lines supply electricity to most areas in Lagos, but supply is intermittent. Most estates therefore maintain a full backup supply via diesel generators, a very expensive means of generating electricity and far less efficient than the gas turbine generators proposed for Eko Atlantic.

Across Eko Atlantic, all electricity and telecoms utility services are being installed below street level. Development continues on schedule with ductwork for telecoms services currently being laid in Eko Boulevard.
ORLEAN INVEST — EKO ENERGY ESTATE

Orlean Invest’s latest development covers approximately 450,000 sqm of prime real estate in Eko Atlantic, and is designed to provide a unique gated community for the whole family. Building on a flexible modular construction system, it offers tailor-made apartments and facilities of varying sizes.

Situated between the channel entrance of Lagos harbour and the ocean waterfront in Victoria Island, Eko Energy Estate will be easily accessible by road, waterway or even helipad, and will provide easy access to the main areas of Lagos.

With impressive views of the Lagos oceanfront harbour, residents of Eko Energy Estate are promised a high standard of living with a wide range of amenities designed to enhance work and relaxation.

Some of the facilities being planned include swimming pools, spas, tennis courts, squash courts, multipurpose sport areas and a fitness centre.

Working in conjunction with Eko Atlantic’s developers, Orlean Invest is also building a state-of-the-art International Hospital, an International School and shopping malls.

The first phase of Eko Energy Estate project has already started and will be completed in 2016.

AFREN PLC TOWER

One of the first buildings to rise in Eko Atlantic has been reserved by Afren PLC as the company’s headquarters in Lagos.

The international energy company, which has been listed on the London Stock Exchange since 2005, operates in 11 countries and is producing over 22,000 barrels of oil per day with the bulk of activities in Nigeria.

Construction of the 15-floor Afren PLC building is well underway with 8 out of 15 levels built by June 2014.

The project is located on the Lagos Commodore Channel side of Eko Atlantic. The project contractors, ITB Nigeria Limited, are confident they will meet the scheduled delivery date.

EKO PEARL TOWERS

This five-tower luxury apartment project is situated on the harbour front and is being developed by Eko Pearl Nigeria Limited in collaboration with ESLA International, one of the largest independent real estate developers in the Middle East.

The names of the towers are derived from the colours of five of the finest pearls in the world.

The foundations and concrete casting for basement parking is now complete, and work is underway on piling foundations for the first tower.

The design for Eko Pearl Towers was modified to incorporate some smaller, attractively priced, apartments. This is to attract the rapidly emerging middle class in Lagos and is proving to be a successful approach.
THE GREAT WALL OF LAGOS EXCEEDS 5 km
Protecting the coastline

MARINE WORKS

Extension of the sea wall continues, together with the placing of the rock core and armour rock protection. The seaward face of the wall will also be contoured. To achieve this, more of the sculpted five-ton pre-cast concrete accropodes (cast in a dedicated on-site factory) will be placed carefully on the seaward side using long-armed excavators. The first section of the wall (at the western end) will also be prepared for the next stage of construction.

Additionally, the shoreline protection will be removed along the southern boundary on Ahmadu Bello Way. This is no longer required as Victoria Island is now fully protected by the site and boundary wall of Eko Atlantic. The removal of this structure will enable the northern boundary of Eko Atlantic City to be established as well as the interface with the existing Victoria Island roads.
The Great Wall of Lagos” is a massive sea revetment protecting Eko Atlantic and Victoria Island from severe coastal erosion and the perpetual threat of flooding. It has recently exceeded four and a half kilometres in length, an immense achievement in a relatively short space of time. The origins of this crucial sea barrier began back in October 2005 following severe storm damage to Bar Beach, Victoria Island. By December of that year, the Lagos State Government had awarded a contract to Hitech Construction Limited, a subsidiary of the Chagoury Group, to carry out shoreline protection. Just one year later, in December 2006, the Bar Beach shoreline protection project was completed. A two-kilometre-long sea wall was in place.

Having proven the success of this first wall, plans grew in 2007 for a greater structure that would protect the entire expanse of land reclaimed for Eko Atlantic. Contracts were signed in February 2008. Before the first of the giant concrete armoured blocks for the Great Wall of Lagos was lowered into position, its ability to withstand the worst of the Atlantic tidal surges was put to the test by engineers at DHI, the world-renowned Danish hydraulic research centre. They carried out extensive scale model trials in March 2009, analysing the data by computer to show that the Great Wall could withstand the worst expected storms over 1,000 years. Construction began in June 2009.

The final stage of the wall structure is now being prepared, commencing with the first 1,000 metres at the western boundary. This will raise the structure to its final level of eight and a half metres above sea level, and also include a concrete Wave Deflector Wall and a Pedestrian Promenade.

"Its ability to withstand the worst of the Atlantic tidal surges was put to the test by hydro engineers”
The Great Wall of Lagos is being constructed to the highest standard of marine engineering available in the world today. An international team of highly skilled coastal and marine engineers applied physical scale model tests and computer simulations in Denmark to assess its stability under the pressure of extreme wave conditions. The design proved itself beyond doubt.

The design splits into 12 different layers of rock and concrete which form this massive structure. Most of the Great Wall lies on the seabed between 7 and 11 metres under water. This is where its real strength lies. The base of the Great Wall is around 45 metres wide, and its average depth is around 18 metres.

Construction begins with a thin spread of gravel onto the ocean bed. This first layer is a filter that prevents sand on the seabed from moving through the structure.

The essential rock core component is quarried locally. Boulders ranging from fist size to one ton provide a stable body for the main structure at a depth of 10 metres. On top of the core, yet more rocks weighing from half a ton to two tons are put into place.

Large two-ton rocks are positioned on top of the toe-berm to further stabilise the wall against attack by both wave action and current. It also provides a secure locking system for the first row of accropodes that slope above it. The most visible part of the Great Wall of Lagos is known as the primary armour section. In simple terms, it's like a giant jigsaw puzzle of interlocking, x-shaped concrete blocks that are called accropodes. Each accropode is made on site and weighs 5 tons, and Eko Atlantic needs 100,000 of them in all. They are placed in a predefined XYZ grid, using a GPS system for pin-point accuracy.

On top of the sand, the geotextile is rolled horizontally to accommodate another foundation layer of rock which supports the concrete crest element that finally completes the revetment. To further reduce the extent of spray and overtopping onto Eko Atlantic's oceanfront promenade in extreme conditions, the crest element or "wave wall" rises to eight metres above sea level.

Once the wave wall is complete, this formidable sea defence barrier is again reinforced by a wide sloping layer of rocks ranging from half a ton to two tons.

As sections of the wall are completed, a vast sand layer upon which the actual city of Eko Atlantic will rise is laid to a height of around eight metres above sea level, protected by the revetment.

When finished, the Great Wall of Lagos will ensure that everyone living and working in the ten square kilometres of reclaimed land for Eko Atlantic and the population of Victoria Island are protected from the sea.
AN ARCHITECT’S DREAM

In the heart of Eko Atlantic rises a residence like no other. Welcome to Nigeria’s very first 40-storey building for luxury living, hailed as a masterpiece of architectural design.

Le Reve Tower

Located in the city’s desirable Financial District, Le Reve will stand as an icon of style. It comprises 40 grand apartments, one per floor, built to the highest standards and using the finest materials, such as special low-emissivity glass which lets sunlight flood into rooms but repels the heat. It is a truly unique, distinctive design.

Looking out from any of the balconies, residents are treated to spectacular scenery along a waterway or towards the ocean. Surrounding Le Reve are superb recreational areas: landscaped spaces to relax and recharge, outdoor bars, lounge areas and more – spaces for comfort, enjoyment and escape.

When you step into its sumptuous interior, Le Reve defies expectation, delivering the architect’s dream to create “effortless living in an oasis of calm”.

Here, the city’s smartest apartments are yours to control with the tip of a finger using intelligent home technology. Spaces are illuminated with fibre-optic lighting, window shutters open by remote control and 24-hour service is at your call.

Le Reve offers each resident 700 square metres of ultimate luxury for work, or total relaxation, from marbled bathrooms and rainfall showers to exquisite bedrooms and solid wood furnishings. Uncompromising quality is the hallmark of every amenity, and every detail is planned to perfection.

Le Reve is unlike any residence you have seen before. By day and by night, it offers a world of sophistication, security and sanctuary with all the state-of-the-art facilities you could wish for.

Contact Le Reve Tower, and live your dream.

RMCK Construction Limited
1390 Bldg, Tiamiyu Savage Street, Nigeria
THE MARINA DISTRICT

Adjacent to the Harbour Lights district, the Marina District of Eko Atlantic will enjoy sweeping views of the ocean on one side and the bustling entrance to the port of Lagos on the other.

GENSLER ARCHITECTS

Gensler is a global design practice that partners with clients to make cities more liveable, work smarter and leisure more engaging. Their 4,000 professionals networked across 46 locations believe quality design can transform organisations and improve people’s lives. Since April 2013, they have been working with the Chagoury Group and South Energyx Nigeria Limited to help further develop the design ideas at Eko Atlantic, anticipating an ongoing relationship over the coming years.
During that time they have participated in designs for The Retail Centre, Master Plans for the Marina District Blocks 1, 2, 3 and 4, Concept Design for Block 1 at the Marina, Schematic Design for Block 1 at the Marina, and the Master Plan.
Gensler is striving to provide a level of design expertise reflecting the best international and sustainable design practices. They are working closely with their team of engineers to help make Eko Atlantic a model city of the future.

For more information, please contact sales@ekoatlantic.com
The Marina District will cover over 1,150,000 square metres of land not including over 75,000 square metres of water. The planned building plots within the Marina will be 5,500 square metres and the average building height will be 70 metres.

Many of the buildings within this huge development will provide homes for residents but it will also be a centre for leisure and social activities, and is expected to be popular with tourists and visitors.

An 18-metre wide promenade will surround the Marina District, acting as a viewing platform for the whole area and providing plenty of opportunities for pavement restaurants and al fresco dining.

RECREATION AND RELAXATION

The Marina District itself will offer multiple berths for boats and other marine craft, making this land very attractive to investors. Taking a boat out offers the chance to enjoy the quiet waters of the internal city waterway or to be more adventurous and set a course for the ocean.

MAXIMISING THE SPACE

The eastern part of the Marina District will offer fabulous views of the harbour, waterway and the ocean. Moving west, the district will take on a more dramatic, urban appearance. Buildings of varied heights will be clustered and spaced to form some narrow streets and some wider, tree-lined boulevards, with shops, restaurants and bars. City squares will be a major feature in the Marina District, ideal for socialising and meeting friends. Keeping the traffic flowing and the streets clear will be a priority here as in the rest of Eko Atlantic. Three levels of multistorey parking will be built with residential and commercial floors above. The first two storeys will be reserved only for restaurants, bars and retail outlets, giving easy access when strolling around.
THE MARINA DISTRICT

THE SHAPE OF THINGS TO COME
MAKING EKO ATLANTIC EVEN SMARTER

While the physical reality of Eko Atlantic City continues apace, developers have been hard at work on its impressive virtual reality. The Eko Atlantic mobile app is ready for launch. Available for all smartphones and tablets, you can download it for free by visiting the iPhone App Store or Android Market, or simply scanning the QR code on this page.

AUGMENTED REALITY (AR)
Without doubt, the smartest feature of this app is Augmented Reality (AR) – a cutting-edge technology that displays a digitally enhanced view of objects or locations. Using the camera and sensors in a smartphone or tablet, AR adds layers of digital information – videos, photos, sounds, graphics or GPS data – directly on top of items in the real world.

HOW TO EXPERIENCE AR NOW:
1. Download and install the Eko Atlantic app for iOS or Android.
2. Start the app and press the Scan button.
3. Simply point your device’s camera at any image in this newsletter showing the AR+ logo.
Eko Atlantic’s story started in 2003 when the Lagos State Government was in search of a permanent solution to protect Bar Beach off Victoria Island from the effects of severe coastal erosion, and to safeguard Victoria Island from the threat of flooding. Between 2003 and 2005, a feasibility study was undertaken with international experts to solve the problem once and for all. Plans for a massive sea revetment enclosing a new city emerged to simultaneously protect the coastline and solve the chronic shortage of quality real estate in Lagos, the world’s fastest-growing megacity.

Background

Eko Atlantic is an innovative urban development concept. Its uniqueness lies in the following features:

- Independent power supply
- Independent water treatment
- Advanced telecommunications
- Low carbon footprint
- No on-street parking
- International School
- International Hospital

Fact File

Lagos population: 21 million*

Lagos housing shortage: 4 million**

Nigeria housing shortage: 17 million†

Eko Atlantic population: 250,000 inhabitants

Who’s Behind The Project?

The project is privately funded by South Energyx Nigeria Limited – the developers and city planners, a subsidiary of the Nigeria-based Chagoury Group of companies – working in strategic partnership with the Lagos State Government and approved by the Nigerian Federal Government.

Published by: South Energyx Nigeria Limited

For more information please contact:
Eko Atlantic Sales Office,
Ahmadu Bello Way, Victoria Island, Lagos, Nigeria
+234 (1) 291 0180
info@ekoatlantic.com, www.ekoatlantic.com

For sales enquiries: sales@ekoatlantic.com

Eko Atlantic recently passed another milestone, this time on Facebook. The official page received its 100,000th “Like”. Since then, the number and frequency of new supporters has continued to accelerate.

Considering that Eko Atlantic’s Facebook page was only set up in September 2012, this growing figure is indicative of the universal and far-reaching appeal of such an inspirational and rapidly expanding project.

The developers and city planners of Eko Atlantic have expressed their gratitude for soaring levels of interest, emphasising how highly they value all support. They have promised to continue posting progress updates on a regular basis.

www.facebook.com/ekoatlantic

Now liked by over 100,000 people on Facebook