

Schaare, Sabina (ISA)

From: Barrie Harrop
Sent: Thursday, 1 August 2019 10:27 AM
To: Infrastructure SA
Cc: Schaare, Sabina (ISA)
Subject: thank you-- Submissions to the 20-Year State Infrastructure Strategy
Attachments: Gulfpointcasestudy2.pdf; CraighburnSA.pdf; MelbCentralBuiltform.pdf; MelbCentralcasestudy.pdf; Melbourne_Central_Coops_Shot_Tower .jpg; AsiaResortStoryBoards.pdf

Dear Sabina,

Just a brief overview, I would like the opportunity to address your Board in detail of our plan with leading Chinese State Corporations to invest up to \$6bn+ in South Australian infrastructure over the next 5-10 years ,added some PDF's of my past major Urban projects and current Greenfields project in Central Asia -with our Chinese Private Equity Partners.

A planned new eco-city up to 400,000 people in stages over 10 years, 1st stage a destination Resort/Casino up to 1m sqm=\$7bn (plus accommodation for 12,000 permanent staff \$2bn), and an International Airport out to 50m passengers per year, 1st stage up to 12m passengers per year, A380 capable in this stage \$2bn.

Zoning for future growth.

The greatest potential for the future of Adelaide / inner city regions is about a single policy decision by State, Local Governments to allocate up to 50% of all surplus land sold off for residential to be deemed for affordable housing (just like the Mayor of London has implemented)

Observation Adelaide and inner city/fringe suburbs around one couldn't help but notice even on outer City fringe the lack of medium density development around tram stops and railway stations.

Adelaide if one extended medium density zoning say in 400m radius around every Tram/Railway station to medium density say up to 8 levels -we could accommodate the future generations on current growth for the next 30 years without carving up valuable Rural landscapes and productive farming land, and better utilizing public infrastructure in many cases paid for over 100 years ago.

City underground railway link time to think big.

Missing link in South Australia's City Public Transport system is no Railway Link North/South in each major growth corridor – one new electric railway system South will not link with North electric under planning, nothing to link East to West and City of Adelaide underground railway loop would solve this issue, and add to City of Adelaide growth engine.

Adelaide Central Railway Station terminating of the edge of the City was fine in 1890 –today different requirements.

O-Bahn is fine but make electric buses now and cut dirty diesel pollution on our City of Adelaide, many Cities in the World half the size of Adelaide has major underground railway loops -we are well overdue to take Adelaide into the 21st Century.

Affordable Student accommodation lack of infrastructure strategy.

This year South Australia can expect about 35,000 International students this year whilst Victoria about 200,000+ International Students this year and growing almost twice the South Australian annual growth with a Victorian Govt plan to increase those International Students to over 300,000 per year.

Currently it creates over 60,000 jobs in Victoria.

Regional Tourism.

South Australia –Gateway for Chinese tourism outback experience 2.5hrs from Adelaide CBD.

How does South Australian State Govt create up to 20,000 new jobs in 3-4 years' easy put in place the necessary International Tourism Infrastructure to get its fair share of the massive Chinese tourism growth to Australia—in China today they are completing a new airport every 21 day with over 90 in construction.

Best Regards,

Barrie Harrop.

MELBOURNE CENTRAL

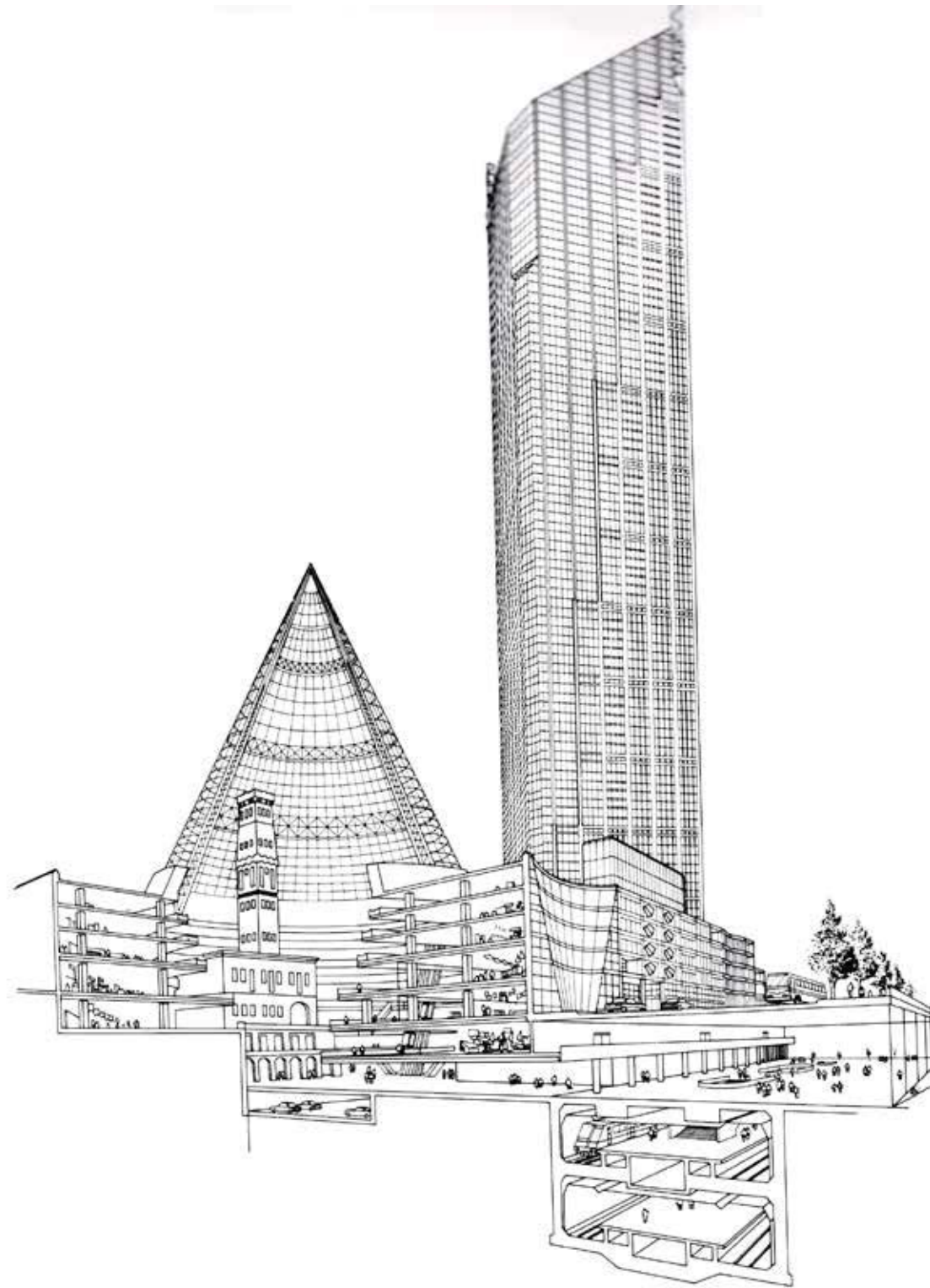
THE CONCEPT, MELBOURNE

BRIEF EXTRACTS FROM OUR SUBMISSION TO GOVT OF VICTORIA.

“THE SPIRIT AND REALITY”.

The design of Melbourne Central is inspired by ideas resulting from consideration of great architectural achievements, such as the Crystal Palace of London, the Eiffel Tower of Paris and the Empire State building in New York.

Our concept will be in keeping with the spirit of the State Government of Victoria to revitalise the central city and to enhance its role as the Capital of Victoria and a create a project of national/international standing. The effect of Melbourne Central on the city was to change the image of Melbourne in a way that is perceived physically and in a way in which it is used and valued by its people. Melbourne Central will rekindle the fire of growth in the central business district of Melbourne. Our project responds to the needs of Victorian's. Melbourne Central value the cosmopolitan and attributes of Melbourne. The scale amenity and architectural brilliance of our proposal will entice many of the 30 million visitors per annum to the project. It is predicted that in view of these considerations in excess of 600,000 visitors per week will experience the unique form and composition of the centre.



THE ECONOMIC RATIONALE.

"In the decade prior to the completion of Melbourne Central the state economy was suffering from poor performance with an alarming rise in unemployment. The overall stagnation in the economy at the time had been strongly felt in the centre of Melbourne and the escape of retail expenditure and employment to outer metropolitan regions. Our proposals have been conceived in direct response to the planning and design objectives and policies set by the government for the site.

Melbourne Central will be an elegant addition to the Melbourne skyline and will be integrated sympathetically with adjacent buildings of historic and architectural significance. Melbourne Central will create the traditional focus of Melbourne Central area as the retailing and commercial hub of the metropolitan region."

Barrie Harrop role, retaining the Architects / Engineers, briefing them on planning/design requirements, assisting preparation of bid to Govt, exited successfully on the decision of partners to limit equity and take on a high debt ratio.

Project total floor area 263,435 sqm. Cost \$1.5bn , completed 1991.

TODAY.

Moving forward two decades the economic outcome is that our project changed the direction of one of Australia's largest cities with some current annual visitation in excess of 30m per year and became the catalyst for over \$5bn of new development including the recent adjoining Myer Centre redevelopment of \$1.5bn. Melbourne Central has established itself as one of Melbourne's most significant tourist attractions and continues to create a revitalising factor in a previously run down section of the city.

Melbourne Central linked successfully all of Melbourne's transport infrastructure including light rail and underground rail systems. It also completed the retail spine through the city linking to Flinders Street Station.

FUTURE.

Melbourne Central will continue to grow in traffic numbers as a further \$3bn of development is planned in the immediate area.





CRAIGBURN DEVELOPMENTS BLACKWOOD

FOUNDING DIRECTOR/MAJOR SHAREHOLDER,
CRAIGBURN DEVELOPMENTS PTY LTD.

Won national tender, of surplus land in Craighburn Farm, current developed value over \$2.5bn, recognised for innovative planning, now a community for some 7,000+ people, put together equity partners/bankers, prepared bid, created financial models, Instructed planners, master planned estate, down to detail of house locations for each lot, saving of all major estate tree's, fitting dwelling's, into the environment, pathways/bikeways linking each stage throughout project.

Created non-risk profit share for previous institutional owner, Minda Inc. which is responsible for care/housing over 1,000 mentality handicapped children in South Australia, Craighburn today is recognized as one the world's leading housing estates, a 12 year planned project.



GULFPOINT MARINA NORTH HAVEN

FOUNDING DIRECTOR/MAJOR SHAREHOLDER,
GULFPOINT MARINA PTY LTD.

Won International tender sponsored by the South Australian Government, formed investment team which included the late Kerry Packer, Wentworth Investments, prepared financial models, briefed planners, prepared marketing strategy, briefed design studio for project corporate ID, co-developed first major housing projects in estate, its Australia's largest man made marina, with scope for 1,500 marina docks for deep keelers, some 500 waterfront and non-waterfront dwellings.

Current developed value over \$3bn+, enjoyed substantial capital growth over last 15yrs, 2006-2014 many waterfront dwellings enjoyed annual capital growth up 20%+.

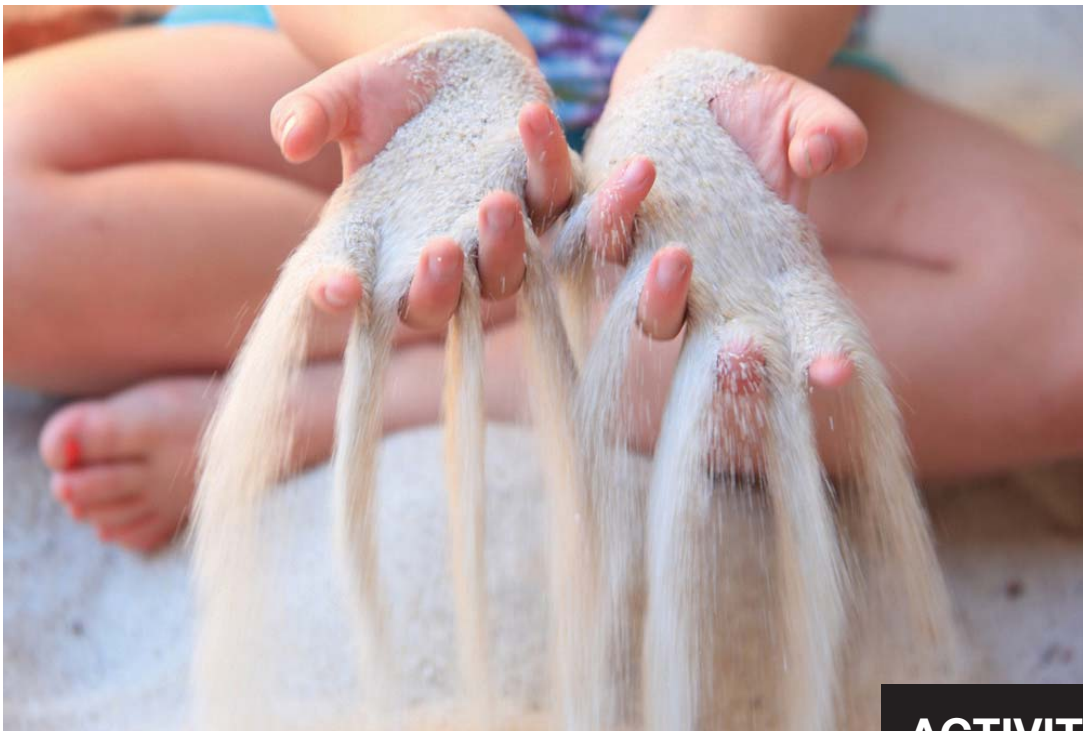
Innovations included over water housing, freehold title to marina docks, complete master planning, and good public access, a 10 year planned project.





ACTIVITIES 活动



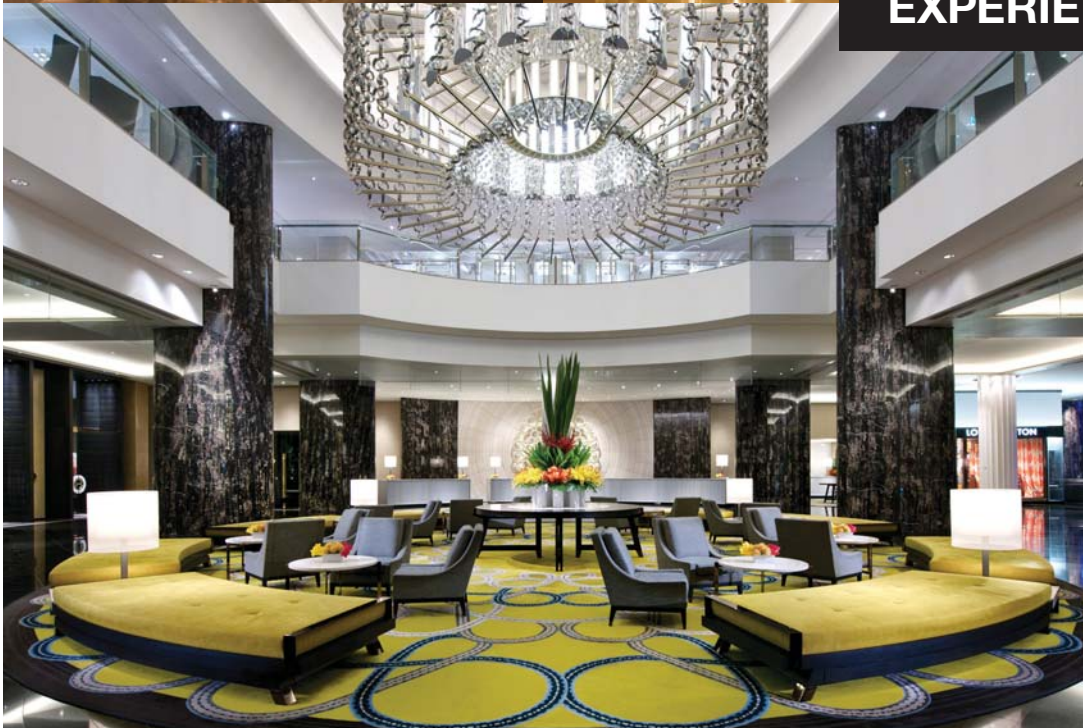


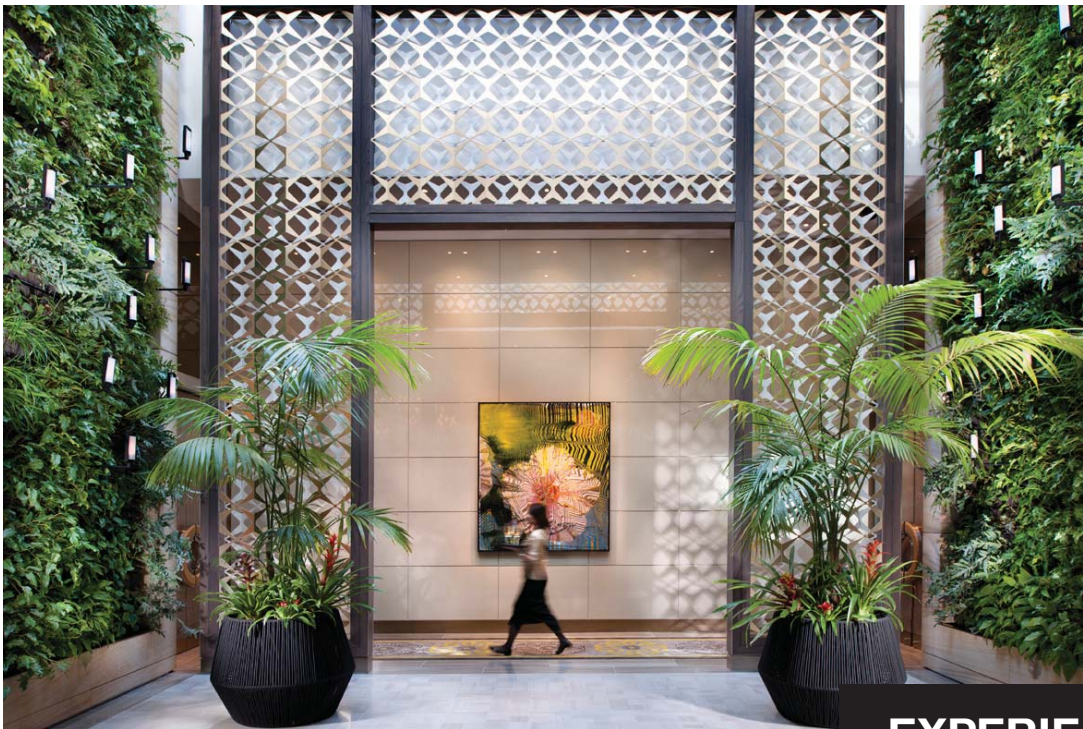
ACTIVITIES 活动





EXPERIENCE 氣氛





EXPERIENCE 氣氛

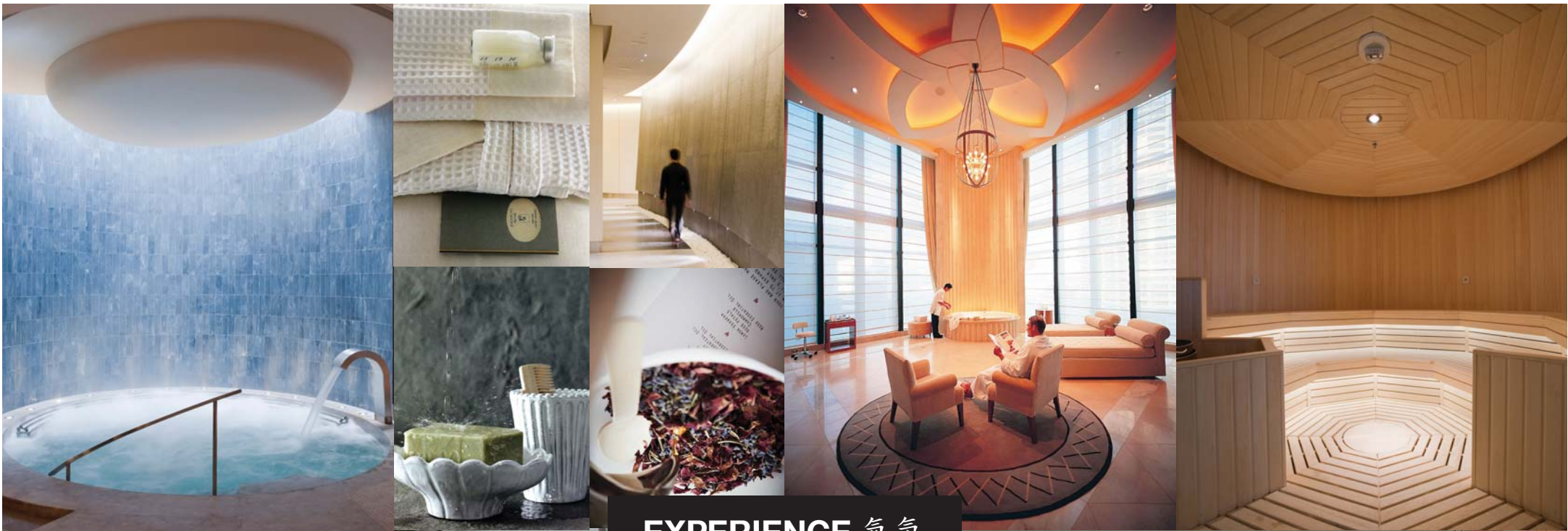






EXPERIENCE 氣氛

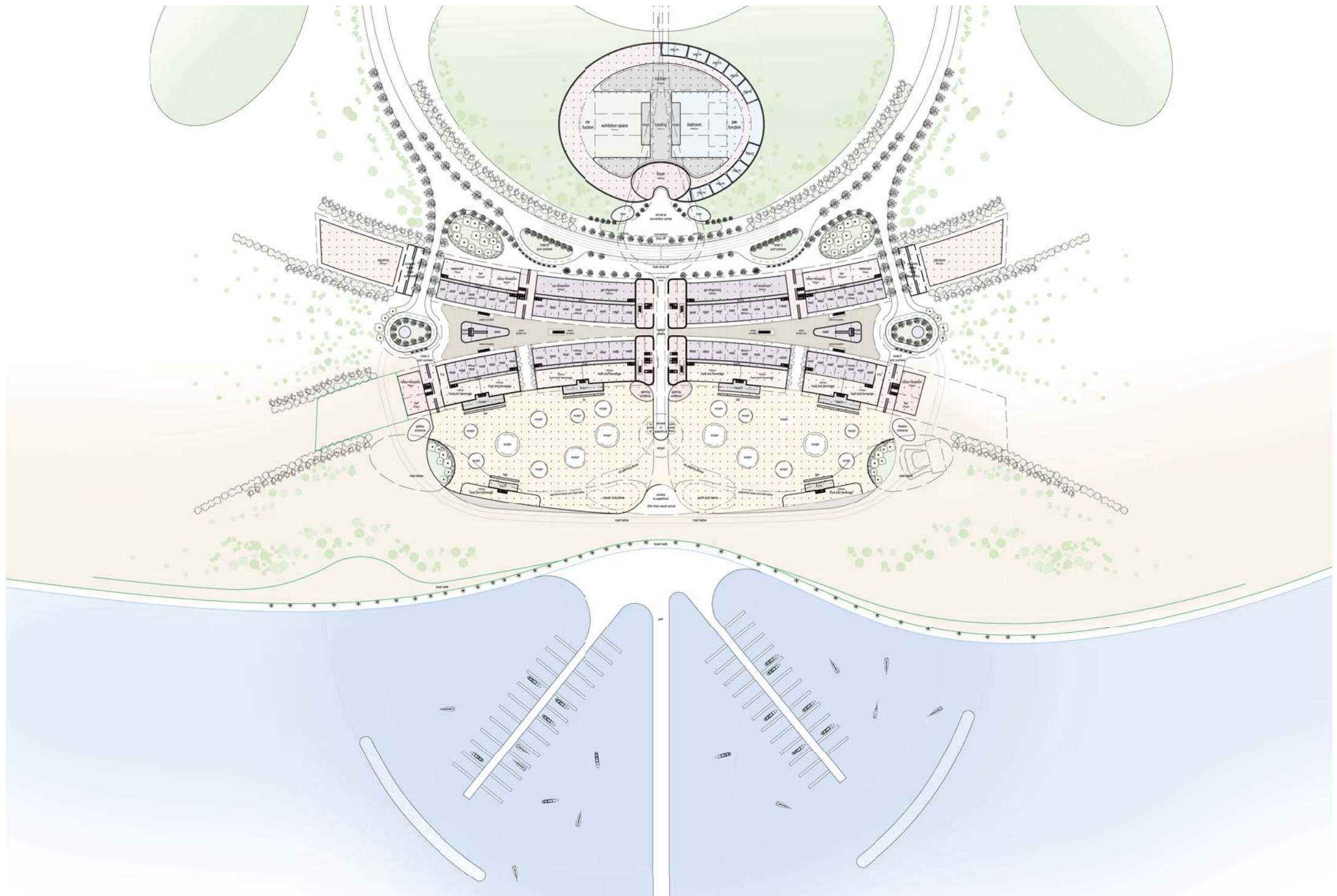


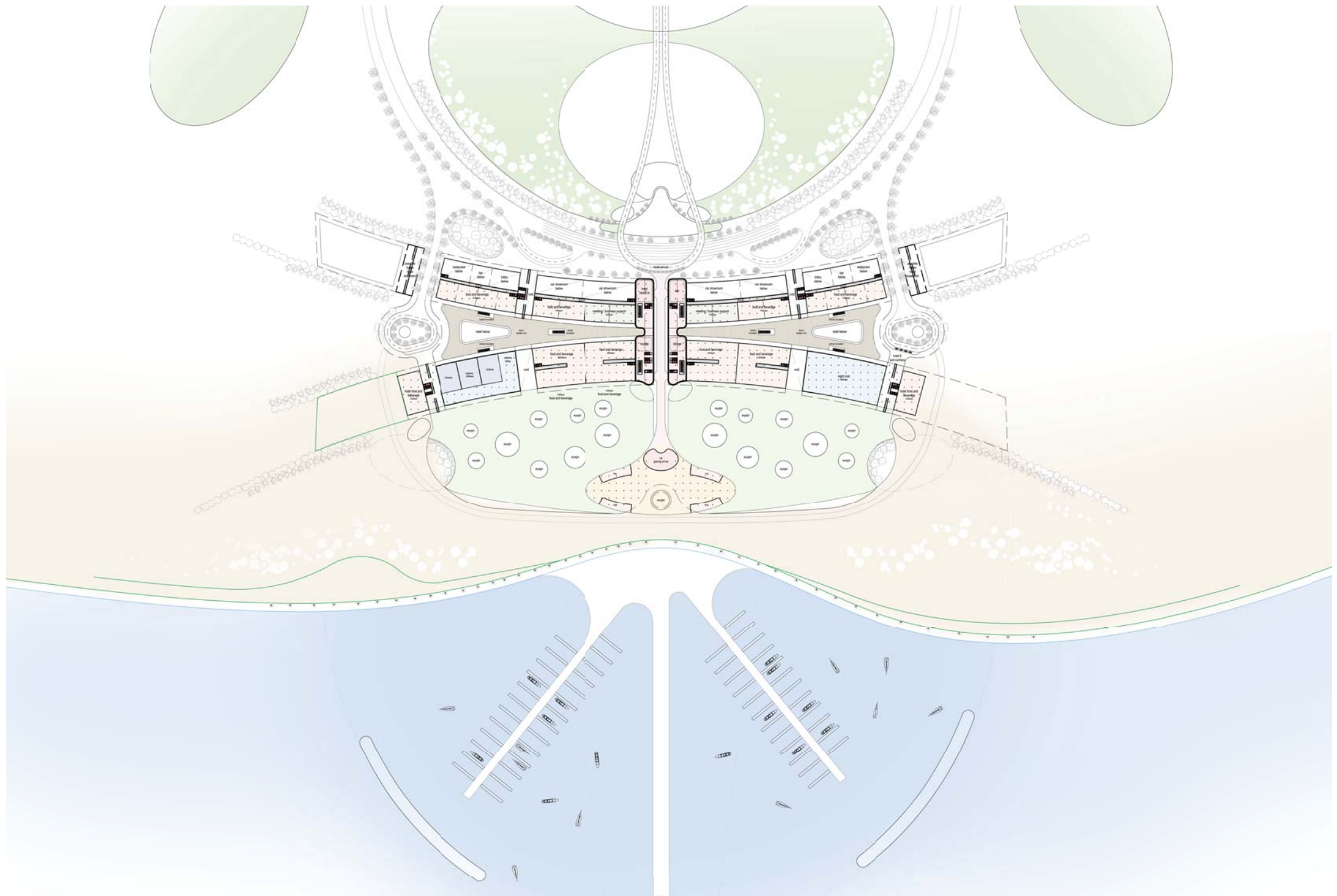


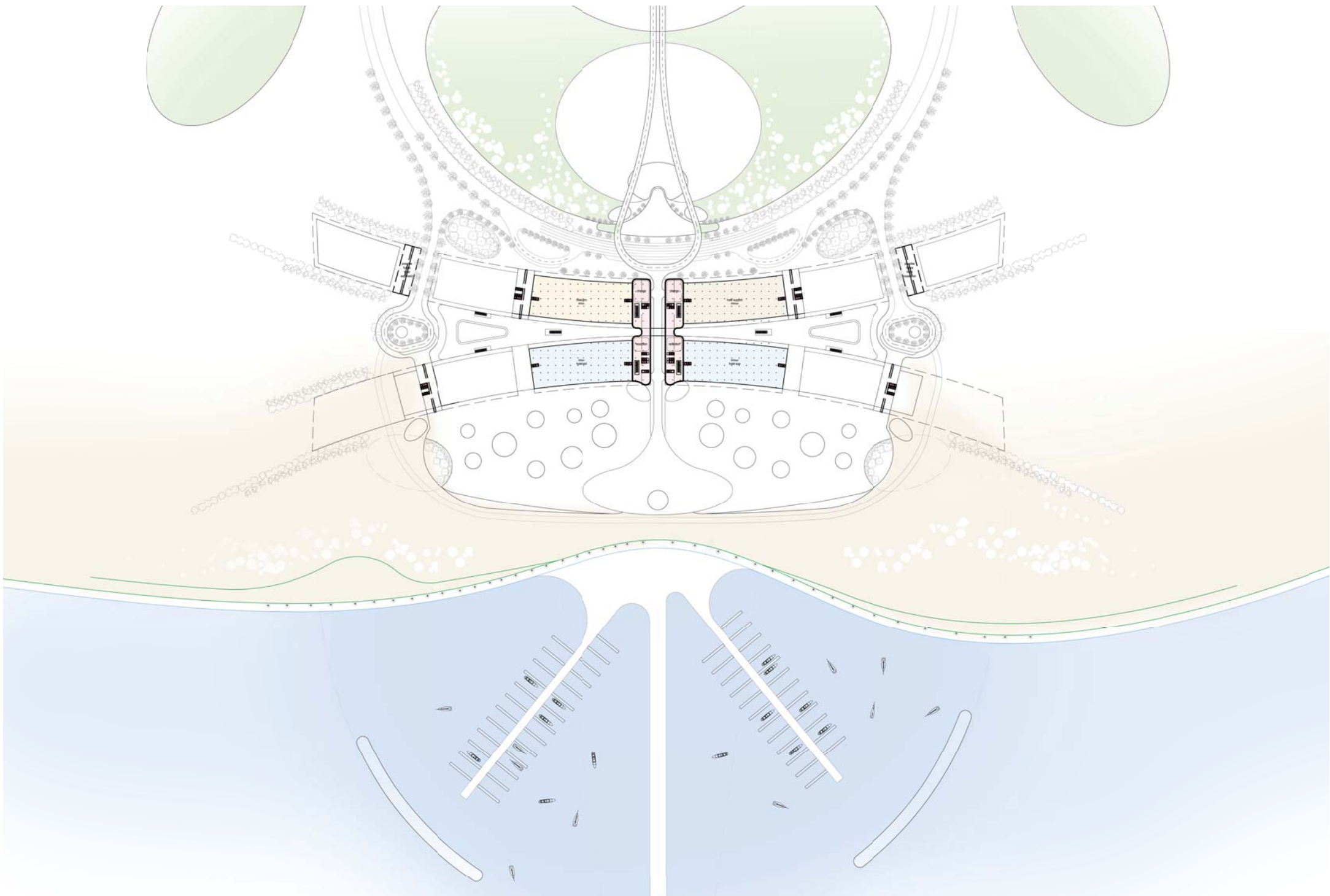
EXPERIENCE 氣氛

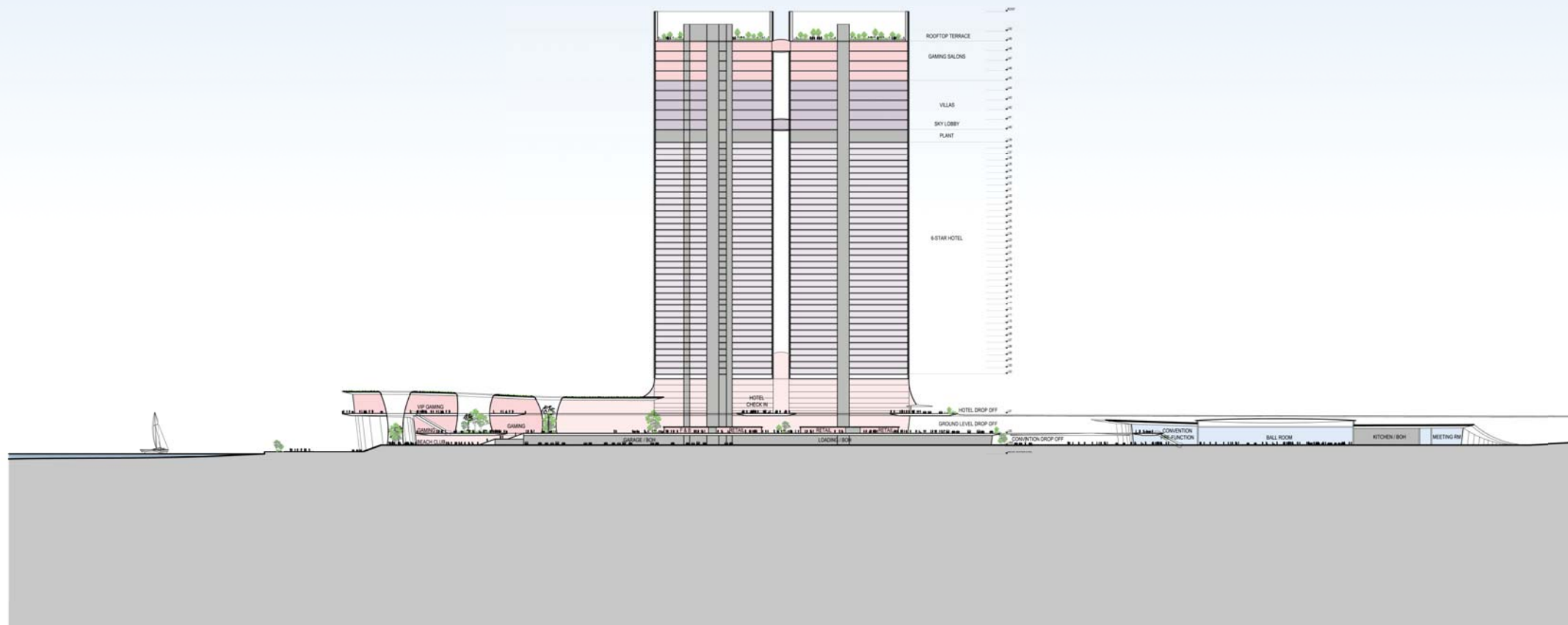


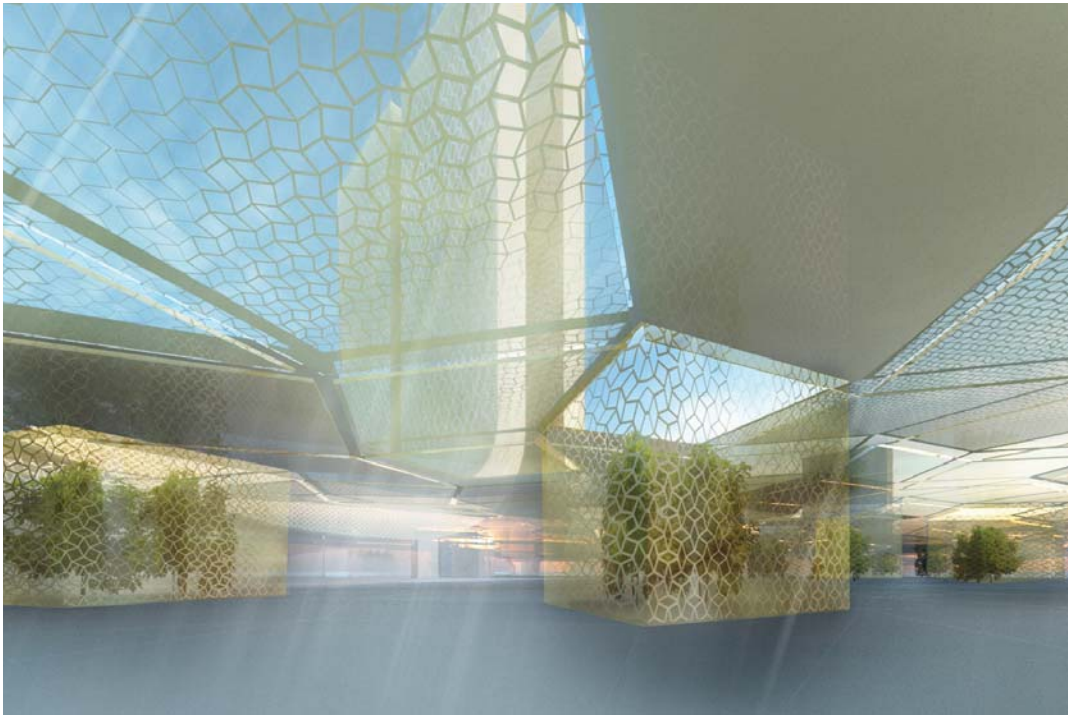
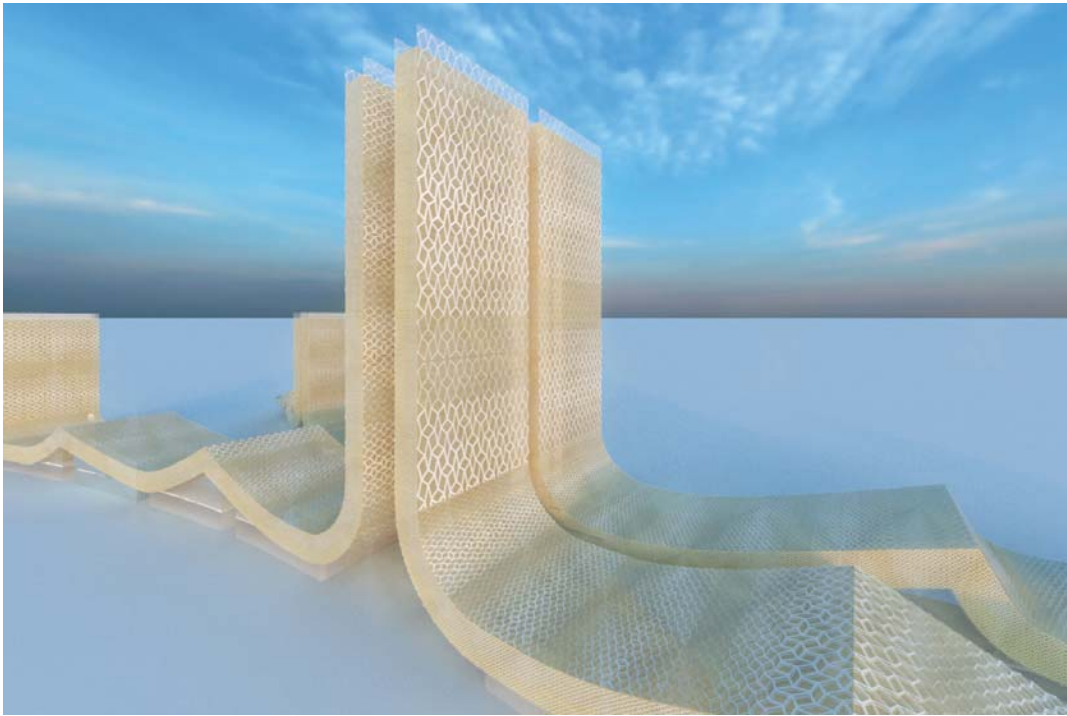
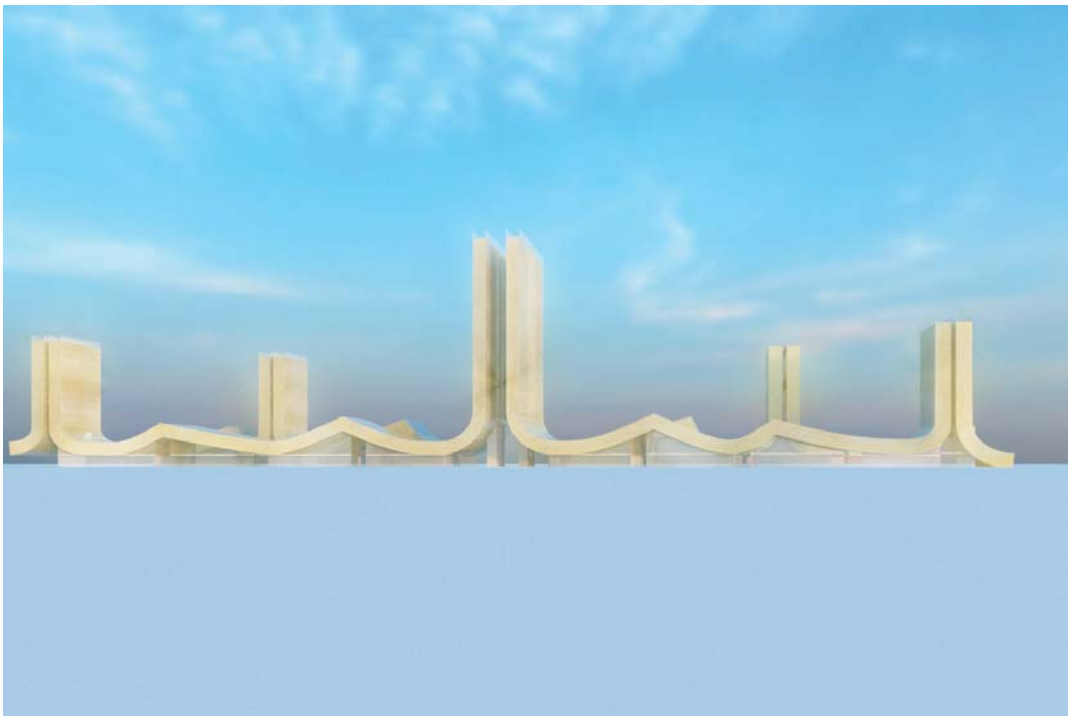
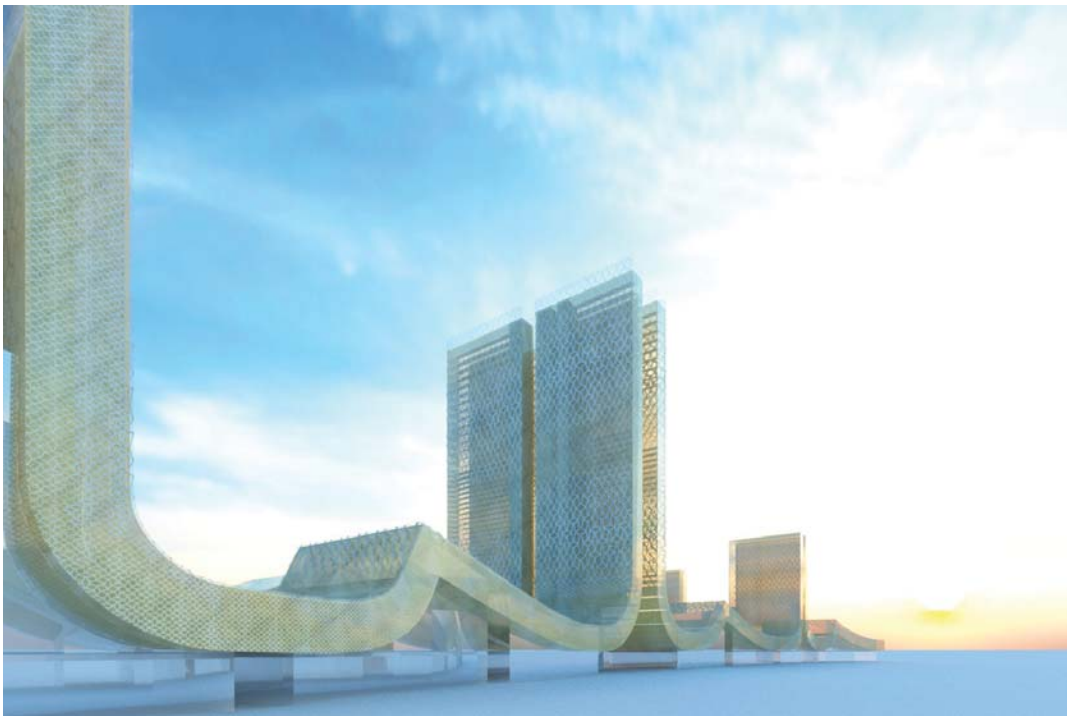
















Need for social and affordable homes by state

State	Social housing shortfall 2019	Affordable housing shortfall 2019	Projected extra social housing needed by 2036	Projected affordable housing needed by 2036	Total needed by 2036
ACT	3,100	2,400	5,200	1,100	11,700
NSW	137,000	79,400	76,100	24,100	316,766
NT	7,500	1,500	7,900	500	17,300
QLD	102,700	54,700	73,000	23,900	254,300
SA	33,100	10,200	16,200	2,300	61,900
TAS	11,100	3,400	3,000	500	17,900
VIC	103,800	42,700	62,300	16,800	225,600
WA	39,200	19,300	47,200	12,600	118,400
Total	437,600	213,700	291,100	81,600	1,023,888

Source: UNSW City Future Research Centre, Chia NSW

改善人民生活 促进社会发展

IMPROVING PEOPLE'S LIVELIHOOD AND PROMOTING SOCIAL DEVELOPMENT

关于我们 About Us

中国葛洲坝集团股份有限公司 (CGGC) 成立于1970年，是中国特大型中央企业——中国能源建设集团有限公司核心成员企业，主要从事水利、水电、火电、核电、风电、输变电、公路、铁路、桥梁、市政、机场、港口、航道、工业与民用建筑等工程项目的的设计、施工、投资与运营，形成了集投资、建筑、环保、房地产、水泥、民爆、装备制造、金融等八大板块紧密相连、协调发展、多元化发展的跨国集团，成为中国服务海外的领军企业。

CGGC拥有强大的融资能力，是中国最具竞争力的上市公司之一。CGGC是中国成长最快的跨国经营企业，目前业务涉及世界142个国家，设立了99个分支机构，为全球客户奉献了190个工程项目，合同总额500多亿美元，国际从业人员3万多人，连续24年入选全球最大250家国际承包商前50强。

CGGC一直致力于通过建设和投资，改善人民生活，促进社会发展。40余年来，CGGC为世界奉献了包括三峡工程在内的5000余项各类工程杰作，为人类带来了强劲的电力、恒久的光明、清洁的水源、高品质的生活和超乎想象的便利。

China Gezhouba Group Company Limited (CGGC), founded in 1970, is a core member firm of China Energy Engineering Corporation Limited (CEEC), a super large central SOE in China. CGGC focuses on design, construction, investment and operation of projects in fields of water conservancy, hydropower, thermal power, nuclear power, wind energy, power transmission and transformation, highways, railways, bridges, municipal works, airports, ports, waterways and industrial and civil architectures. Business scopes 8 diversified sectors, including investment, construction, environmental protection, real estate, cement production, civil explosive and blasting, equipment manufacture and finance, which are interconnected and developed in harmony. Hence, CGGC has grown to be a leading company among the "Go global" chinese companies.

CGGC has strong financing capacity and is one of the most competitive listed companies in China. CGGC, as a fastest growing transnational entity, networks 142 countries and establishes 99 overseas branches. It has devoted to its global clients 190 projects with total contract value over 50 billion US dollars through the effort of its 30,000 worldwide employees, hence ranks top 50 out of the ENR Top 250 International Contractors.

CGGC has been dedicated to promoting people's livelihood and social development via its construction and investment activities. In the past 4 decades, CGGC has contributed over 5,000 masterworks to the world in various fields, including the Three Gorges Project which benefits human beings with robust power, constant light, clean water, high-quality life and unconceivable convenience.

我们的诞生 Founding of CGGC



二十世纪七十年代初，中国最大的基础设施工程——举世瞩目的葛洲坝水利枢纽工程开工建设，中央政府从全国精心挑选的数以万计的技术专家和管理精英如百川归海，汇集到这一划时代的伟大工程建设中。

我们就是由这些全国精英组成的团队，我们因独家整体建设葛洲坝工程而得名。

Launched in early 1970s, the Gezhouba Water Conservancy Project, after which CGGC was named, was at that time the largest infrastructure project in China.

Over the years, the project brought together tens of thousands of technical experts and management elites selected by the Central Government from around the country and made CGGC an excellent team.

我们从一诞生就代表了中国水电建设最高水平，我们因在工程建设中取得的巨大成就而成为中国水利水电第一品牌。

Since its inception, CGGC has represented the highest standards in hydropower construction in the Chinese mainland. The company stands tall as the country's No. 1 water conservancy and hydropower brand, and is today renowned both at home and abroad for its outstanding achievements in large-scale project construction.

我们的发展 Development of CGGC

四十年来，我们为全世界奉献了包括全球最大水利枢纽工程——三峡工程在内的各类工程杰作5000多项，为人类带来了清洁的电力、恒久的光明和超乎想象的便利。

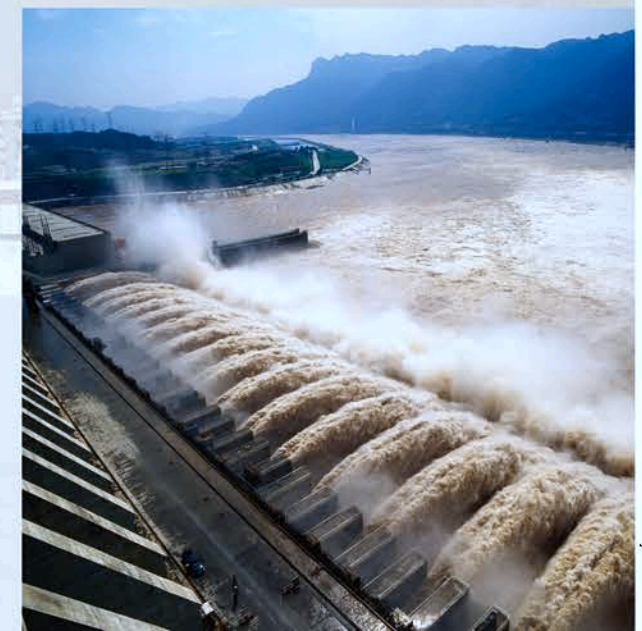
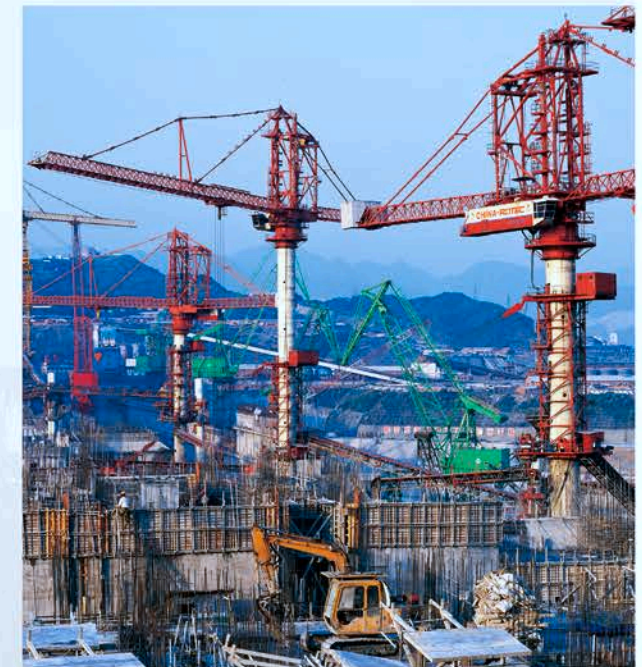
如今，除了水利水电工程以外，我们的工程承包业务已经扩展到了市政、公路、铁路、港口、桥梁、机场、火电、核电、风电、工业与民用建筑等各个工程领域。

我们拥有多种优良的融资平台和融资能力，我们一直致力于通过建设和投资，改善人民生活，促进社会发展。

In the past 40 years, CGGC has completed over 5,000 pieces of outstanding engineering works including the Three Gorges Project, so far the largest of its kind in the world, providing the world with clean power and light and convenience beyond imagination.

Today, in addition to water conservancy and hydropower projects, we have extended our scope of business to cover various other engineering fields, including municipal works such as highways, railways, ports, bridges, airports, thermal power, nuclear power, wind power, and industrial and civil buildings.

With outstanding financing platforms and strong capacity, we have been dedicated to improving people's livelihood and promoting social development via construction and investment.



我们的使命 Our Mission

我们的使命是为社会提供卓越的工程和产品，满足社会进步和人们生活品质提升的需求。我们将在现有或新拓展的领域里不断提升我们在全球范围内的领先地位，成为所有追求成功和卓越者的最佳选择。我们正努力在全球员工中孕育一个充满信任、尊重和共同价值的文化环境，并成为与社会、自然和谐发展的典范。

CGGC's mission is to provide the society with outstanding projects and products to promote social progress and people's living standard. We will leverage CGGC's world-leading role in existing and new business fields to become the best partners for those who pursue excellence. We are making efforts to create a cultural environment of trust, respect and shared value for our employees around the world, and establish CGGC as a model of harmonious development that benefits the nature and the society.



成名之作 Masterpieces



中国葛洲坝集团公司因在上世纪独家整体建成中国当时最大的基础设施工程——举世瞩目的葛洲坝水利枢纽工程而得名。

CGGC was named after the world-renowned Gezhouba Water Conservancy Project, the largest infrastructure project of China at that time for which CGGC was the sole constructor.

葛洲坝水利枢纽工程（1970年－1988年，位于中国湖北宜昌）是在中国最大河流、世界第三大河——长江上修建的第一座水利枢纽工程。由船闸、发电厂、泄水闸、冲砂闸及挡水建筑物组成。大坝属典型闸坝，全长2606.5米，最大坝高47米，总库容量15.8亿立方米。发电厂分为二江电厂和大江电厂，共装发电机21台，总装机容量达271.5万千瓦。施工中，中国葛洲坝集团有限公司创造了100多项当时中国水电施工的最高记录。

The Gezhouba project built in Yichang, Hubei Province from 1970 to 1988 was the first water conservancy project constructed on the Yangtze River, the longest in China and third longest in the world. It consists of ship locks, power plants, spillway, sluices and retaining structures. The dam is a typical gate dam 2606.5m long and 47m high at the maximum with a total storage capacity of 1.58 billion m³. The project covers a total of 21 sets of turbo-generator units installed in the two power plants on the main channel and the second channel, respectively, making a total installed capacity of 2,715MW. CGGC created over 100 national records during the construction.

三峡水利枢纽工程

Three Gorges Water Conservancy Project

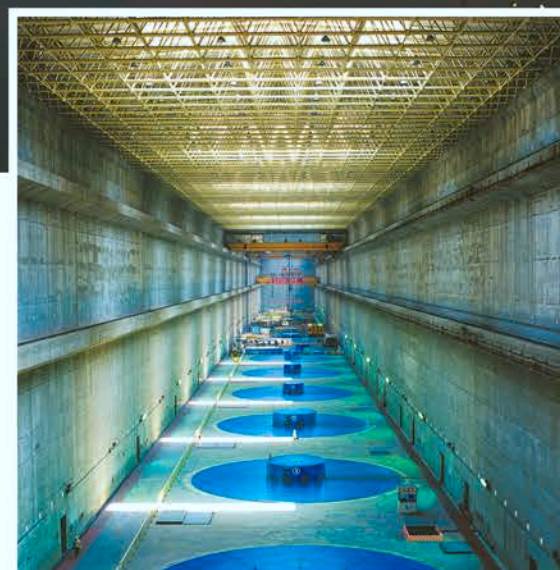
三峡水利枢纽工程（1993年－2009年，位于中国湖北宜昌）由大坝、水电站、通航建筑物等3大部分组成。三峡大坝为混凝土重力坝，坝长2309.47米，坝顶高程185米，最大坝高181米；共安装32台水轮发电机组，机组单机额定容量70万千瓦，总装机容量2240万千瓦；通航建筑物包括五级永久船闸和升船机。是目前世界上最大的水电站。

The Three Gorges Water Conservancy Project built in Yichang, Hubei Province from 1993 to 2009 consists of the dam, hydropower plant and navigation structures. The dam is a gravity dam 2309.4m long and 181m high at the maximum with a crest elevation of 185m. The hydropower plant has a total of 32 sets of 700MW-generator units, making a total installed capacity of 22,400MW. The navigation structures include a five-step double-way permanent ship lock and a ship-lift. Three Gorges is by far the largest hydropower station in the world.



三峡工程是当今世界最大的水利枢纽工程，我们是三峡工程的主承包商，完成了三峡工程近70%的施工内容。

The Yangtze River Three Gorges Dam Project stands as the world's largest water conservancy project. Gezhouba served as the major contractor on the project, providing nearly 70% of its overall construction.



世界之最 World Leader

我们正在领跑世界筑坝技术发展，我们已经建成和正在建设代表世界筑坝科技最高水平的一系列工程。

CGGC, as a pioneer in the development of dam building technologies in the world, has completed and is carrying out dam construction projects with dam building technologies of the highest standards.



世界顶尖筑坝技术
World Leading Dam Building Technologies

世界最高碾压混凝土大坝——龙滩水电站大坝（坝高216.5米）

Longtan Hydropower Station Dam (216.5m in height), world's highest roller-compacted concrete dam

世界顶尖筑坝技术 World Leading Dam Building Technologies



世界最高面板堆石坝——清江水布垭水电站大坝（坝高233米）

Shuibuya Hydropower Station Dam, Qingjiang (233m in height), world's highest concrete-face rockfill dam.

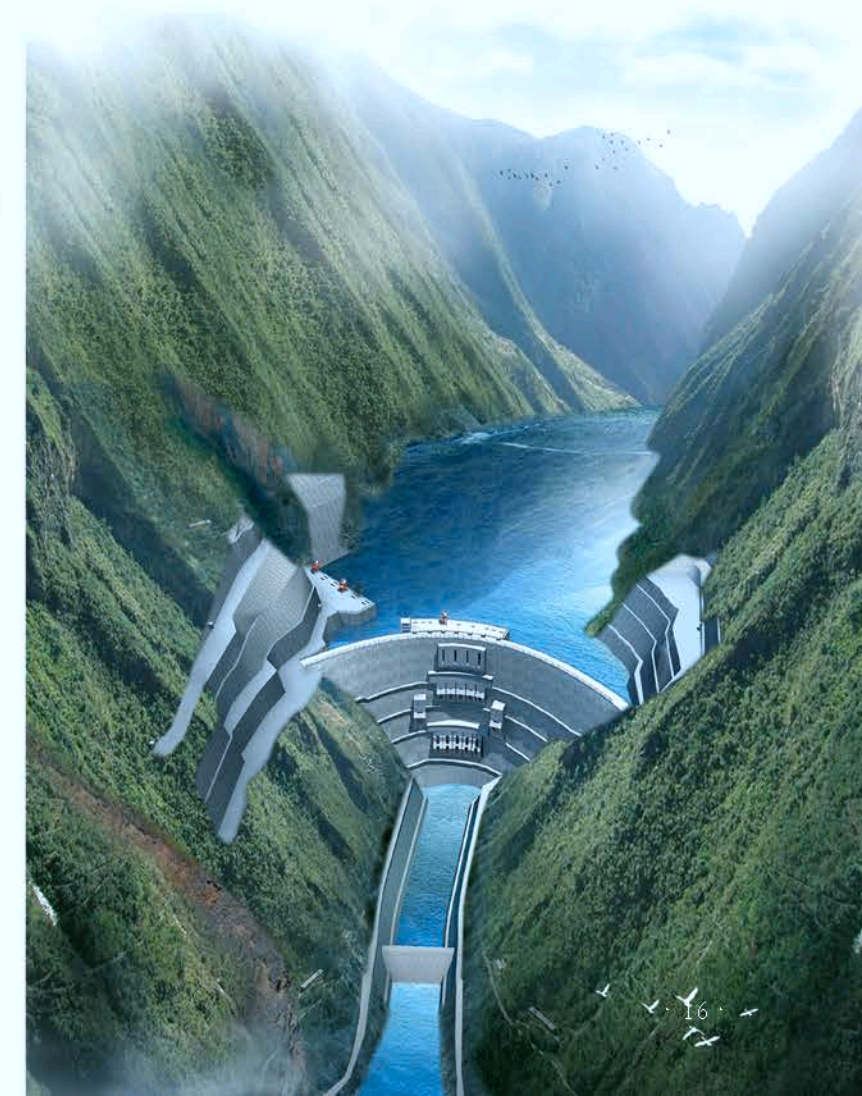


世界最高双曲拱坝——锦屏一级水电站大坝(坝高305米)

Jinping I Hydropower Station Dam (305m in height), world's highest double-curve arch dam.

世界海拔最高沥青混凝土心墙堆石坝——冶勒水电站大坝（平均海拔2700米）

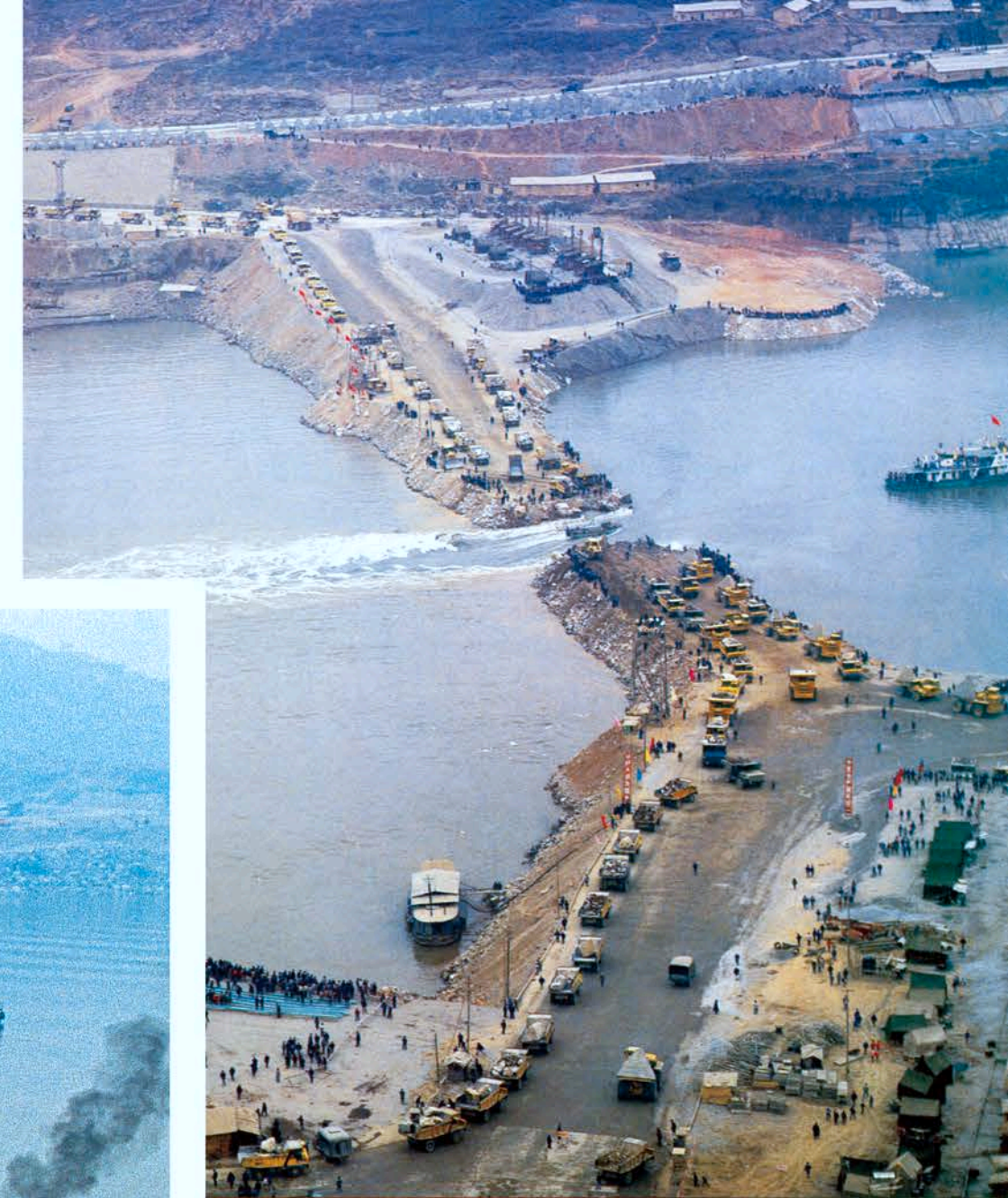
Yele Hydropower Station Dam (2,700m in average altitude), rockfill dam with asphalt concrete core with the highest altitude in the world.



独一无二的江河截流技术
The Best River Closure Technology

唯有我们能够在万里长江上成功实施截流工程。

CGGC is the only company able to conduct river closure on the great Yangtze River.



水电机组安装王者 Established Leader in Hydropower Unit Installation



近几年来，我们安装水电机组的总容量逾中国水电装机总容量的50%。

CGGC has installed over 50% of China's hydropower capacity in recent years.



我们具有同时承担四座百万千瓦级水电站水轮发电机组、电气及辅助设备安装的生产和施工能力，能承担混流式、轴流式、抽水蓄能、贯流式、冲击式等多种水轮发电机机型安装。

在葛洲坝水电站机组安装中，我们创造了水电站年装机容量、年装机台数和装机进度三个全国第一的纪录，荣获“国家科学技术进步奖”。在三峡水电站机组安装中，我们创造了一年内安装投产4台70万千瓦级的大型机组的世界纪录。

CGGC is capable of installing turbo-generator units, electrical and auxiliary equipment of four 1,000MW hydropower projects simultaneously and its business covers various types of turbines such as Francis, axial-flow, pumped storage, tubular, and Pelton. In the installation of Gezhouba Water Conservancy Project, CGGC created three national records: annual installed capacity, annual installed numbers of units and installation progress and was thus awarded the National Science & Technology Progress Prize. In the Three Gorges Project, CGGC created a world record of installing and putting into operation four units (700MW each) within one year.





领跑世界的输变电技术
World-leading Power Transmission
and Transformation Technologies

世界上最大规模的可控串补工程——伊冯可控串补工程
Yvonne, world's largest TCSC project



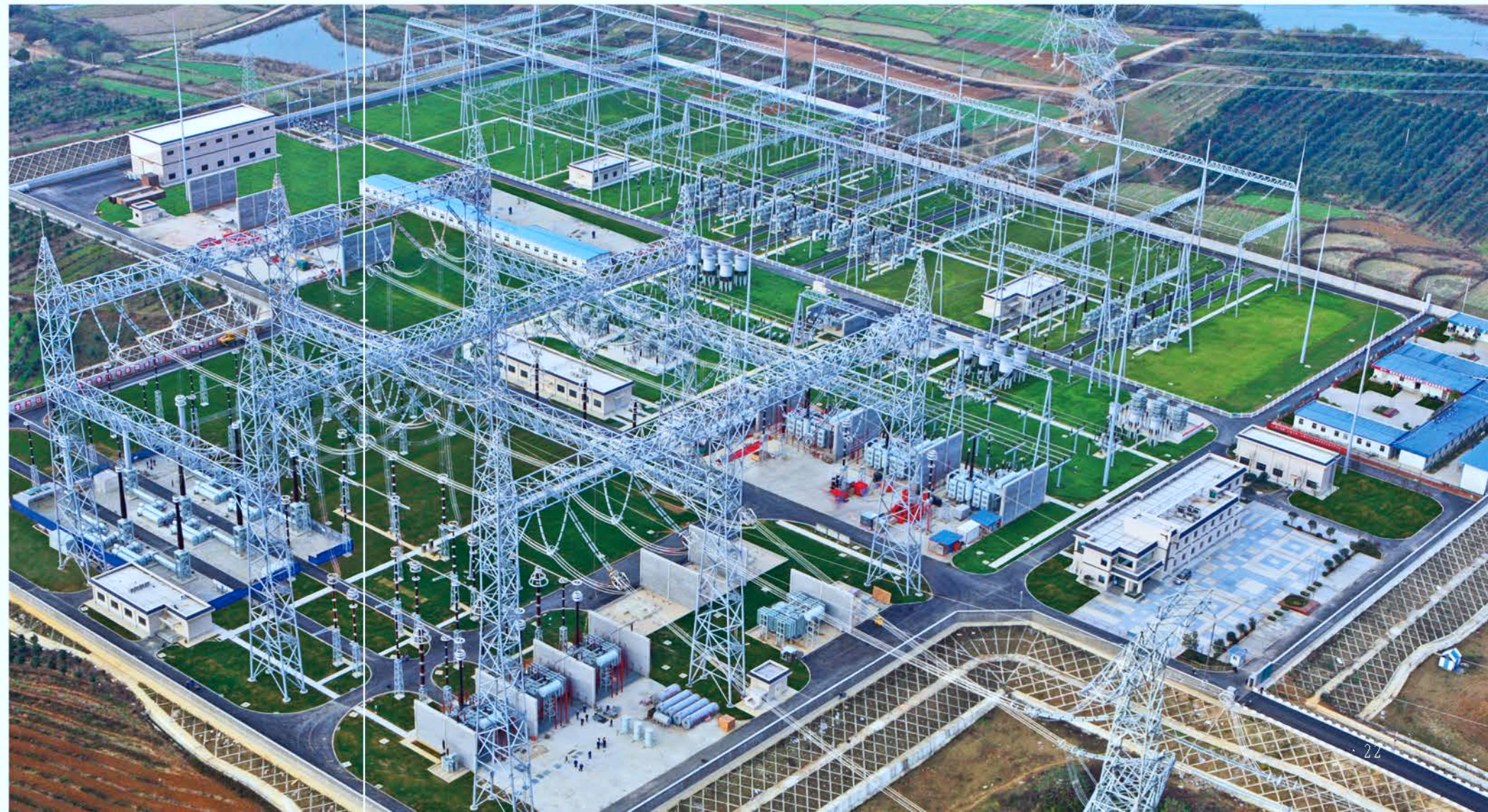
世界上电压等级最高、输送容量最大、距离最远的特高压直流输电线路工程——
±800千伏向家坝—上海特高压直流输电示范工程
±800KV Xiangjiaba-Shanghai Extra-high Voltage DC Transmission Demonstration
Project, a project with the highest voltage, largest capacity and longest transmission
distance in the world



世界海拔最高、线路最长、设计施工难度最大的输变电工程——青藏交直流联网
工程
Qinghai-Tibet DC/AC Networking Project, the world's highest, longest and most
difficult power transmission project

规划和建设的世界最高电压等级特高压交流试验示范工程——荆门1000kV
变电站

Jingmen 1,000kV Substation, An extra-high voltage AC demonstration project,
a project with the highest voltage level in the world, designed, planned and
constructed all by CGGC.



世界最大的调水工程 Largest Water Transfer Project of the World



南水北调工程是迄今为止世界上规模最大的调水工程，工程横穿中国的长江、淮河、黄河、海河四大流域，涉及十余个省（自治区、直辖市），输水线路长，穿越河流多，工程涉及面广，效益巨大，是一个十分复杂的巨型水利工程，其规模及难度国内外均无先例。

The South-to-north Water Transfer Project, so far the largest water transfer project in the world, covers the four river basins of the Yangtze River, the Huaihe River, the Yellow River, and the Haihe River of China, involving over ten provinces, municipalities and autonomous regions. It transfers water over a very long distance between various rivers, covers a vast area and creates tremendous benefits. All these make the project the largest and the most difficult one in history at home and abroad.

1. 我们承建的漕河渡槽是南水北调中线重点工程,是目前中国最大的输水渡槽工程。

The Cao River Flume contracted by CGGC is a key part of the South-to-north Water Transfer Project and the largest water transfer fume in China.

2. 我们在承建的南水北调中线干线的关键工程穿黄工程中,在中国首次采用大直径盾构机长距离穿越中国的第二大河流——黄河。

CGGC became the first to tunnel across the Yellow River over a long distance with large-diameter shield machines in the central line construction of the project.

3. 我们承建的丹江口水电站大坝加高工程是南水北调中线的源头、龙头工程,也是目前中国最大的水利枢纽改扩建工程。Danjiangkou Dam Enhancement Project contracted by CGGC is the starting point and a leading section of the central line of the project and by far the largest renovation and enhancement project of water conservancy facilities in China.



电力建设 Power Construction

我们在水电、火电、核电、风电、生物质发电、垃圾发电和燃机、循环流化床等电力能源工程建设领域具有超强的综合实力。

We have super comprehensive strength in power construction fields of hydropower, thermal power, nuclear power, wind power, biomass power, garbage power, gas turbines and circulating fluidized bed.

1. 我们设计施工的山东邹县发电厂是中国最大、国内综合节能和环保水平最高的燃煤电厂之一。

Zouxian County Power Plant designed and constructed by CGGC in Shandong Province is the largest, most energy-efficient and environment-friendly coal-fired power plant in China.

2. 全国首台百万千瓦超超临界火电机组工程——华能玉环电厂 Huaneng Yuhuan Power Plant with the first 1000kv extra supercritical thermal power unit in China.

3. 中国规模最大、自动化水平最高的垃圾焚烧电厂——天津泰达环保电站

Tianjin Teda Environment-friendly Power Plant, China's largest and most automated garbage power plant.

4. 世界首台百万千瓦空冷机组——华电宁夏灵武发电有限公司二期（ $2 \times 1000\text{MW}$ ）工程

Phase II Project ($2 \times 1,000\text{MW}$) of Huadian Ningxia Lingwu Power Generation Co., Ltd., world's first 1,000MW air-cooling power units

5. 我们设计建设的土耳其EREN电站两台60万千瓦超临界燃煤机组，是土耳其国内目前单机容量最大的发电机组。

The two 600MW supercritical coal-fired units CGGC designed and constructed for EREN Power Station in Turkey are so far of the largest single-unit capacity in Turkey.





我们设计施工的宁海电厂二期 $2 \times 1000\text{MW}$ 扩建工程入选2010-2011年度中国建设工程鲁班奖。
Ninghai power plant phase II $2 \times 1000\text{ MW}$ extension project, designed and built by CGGC, won the luban prize of construction projects 2010-2011 of China.



我们设计施工的浙江半山电厂天然气发电（ $3 \times 390\text{MW}$ ）工程。
Zhejiang Banshan Natural Gas Power Plant($3 \times 390\text{MW}$)project
designed and built by CGGC.





耶涯水电站是缅甸目前装机容量最大的水电站，我们在该项目上的卓越建树获得缅甸举国盛赞。

Yeywa Hydropower Station is currently Myanmar's largest hydropower station in terms of installed capacity and CGGC was widely recognized throughout the country for this project.

我们承担了埃塞俄比亚特克泽水电站施工难度最大、技术含量最高的双曲薄壁混凝土大坝的施工。
In the construction of Tekeze Hydropower Station in Ethiopia, CGGC undertook the most difficult part with the highest technology content, that is, the double-curve thin-walled concrete dam.





我们正在建设的巴基斯坦尼鲁姆·杰卢姆水电站是中国公司在国
外承建的水电工程。(图TBM施工)

CGGC is currently carrying out the construction of the Neelum-
Jhelum Hydropower Station in Pakistan, the largest hydropower
project undertaken by a Chinese company.
(Picture: the TBM is working)



大亚湾核电站
Daya Bay Nuclear Power Plant

江苏田湾核电站是“九五”时期国家重点建设的核电工程
Jiangsu Tianwan Nuclear Power Plant, a key project during the Ninth Five-year Plan period.



中国大陆第一座核电站——秦山核电站
The first nuclear power plant in the Chinese mainland—Qinshan Nuclear Power Plant

中国目前自主化程度最高的百万千瓦级核电站——岭澳核电
1000MW Ling'ao Nuclear Power Plant—the most localized in China



山西省右玉1×10MW光伏电站
Shanxi Youyu 1×10MW PV Power Plant



我们在中国建立了多个现代化塔筒生产基地，建设了多个风力发电场项目。
CGGC has established many modernized tower tube production bases and constructed a number of wind power projects in China.



750kV兰州东~平凉~乾县输电线路工程
750kV Lanzhou East-Pingliang-Qianxian power transmission line





我们在房地产行业进行了大量的投资。
CGGC has made significant investment in the real estates.

我们拥有经中国央行批准的非银行金融机构，与国家政策性银行和国家大型商业银行均建立了战略合作伙伴关系，具有极强的融资能力，形成了产业链相互依托的投资业务。

CGGC has a non-bank financial institution approved by the People's Bank of China, the central bank of China and has established strategic partnerships with many policy-oriented banks and large commercial banks; therefore, it has strong financing capability and develops investment business with mutually dependent industrial chain.



我们采用多种形式投资水电站、高速公路和高速铁路。

CGGC has invested in hydropower, highway and high-speed railway projects in various forms.



我们在中国拥有生产能力居全国第二的大型民爆专业公司。

CGGC has a large civil blasting company ranking second in terms of production capacity in China.



沪汉蓉高速铁路
Shanghai-Wuhan-Chengdu High-Speed Railway



湖北襄荆高速公路
Hubei Xiangfan-Jingzhou Highway



我们拥有中国最大的特种水泥生产基地——葛洲坝水泥厂，特种水泥生产能力居世界首位，其低耗、高能、零污染的新型干法水泥生产项目，年生产能力达到2000万吨。

Gezhouba Cement Plant, a subsidiary of CGGC, is the largest special cement production base in China. It ranks first in the world with a special cement production capability of 20 million by dry cement production method featuring low consumption, high efficiency and zero pollution.



我们承建的耶涯水电站是缅甸目前装机容量最大的水电站，该电站的建设得到了中国的银行优惠贷款支持。

The CGGC-undertaken Yeywa Hydro power Station has the largest installed capacity among hydropower stations in Myanmar, and its construction benefited from China's concessional loans.

我们在加纳承建的凯蓬供水扩建工程 95%的资金来自中国的银行优惠买方信贷。

Ghana Kpong Water Supply Expansion Project undertaken by CGGC was a China-aided project, and 95% of funds of this project were from preferential buyer's credit of China.



我们在埃塞俄比亚承建的FAN水电站是中国公司在东非的首个EPC项目，该项目建设资金源自中国的银行贷款。

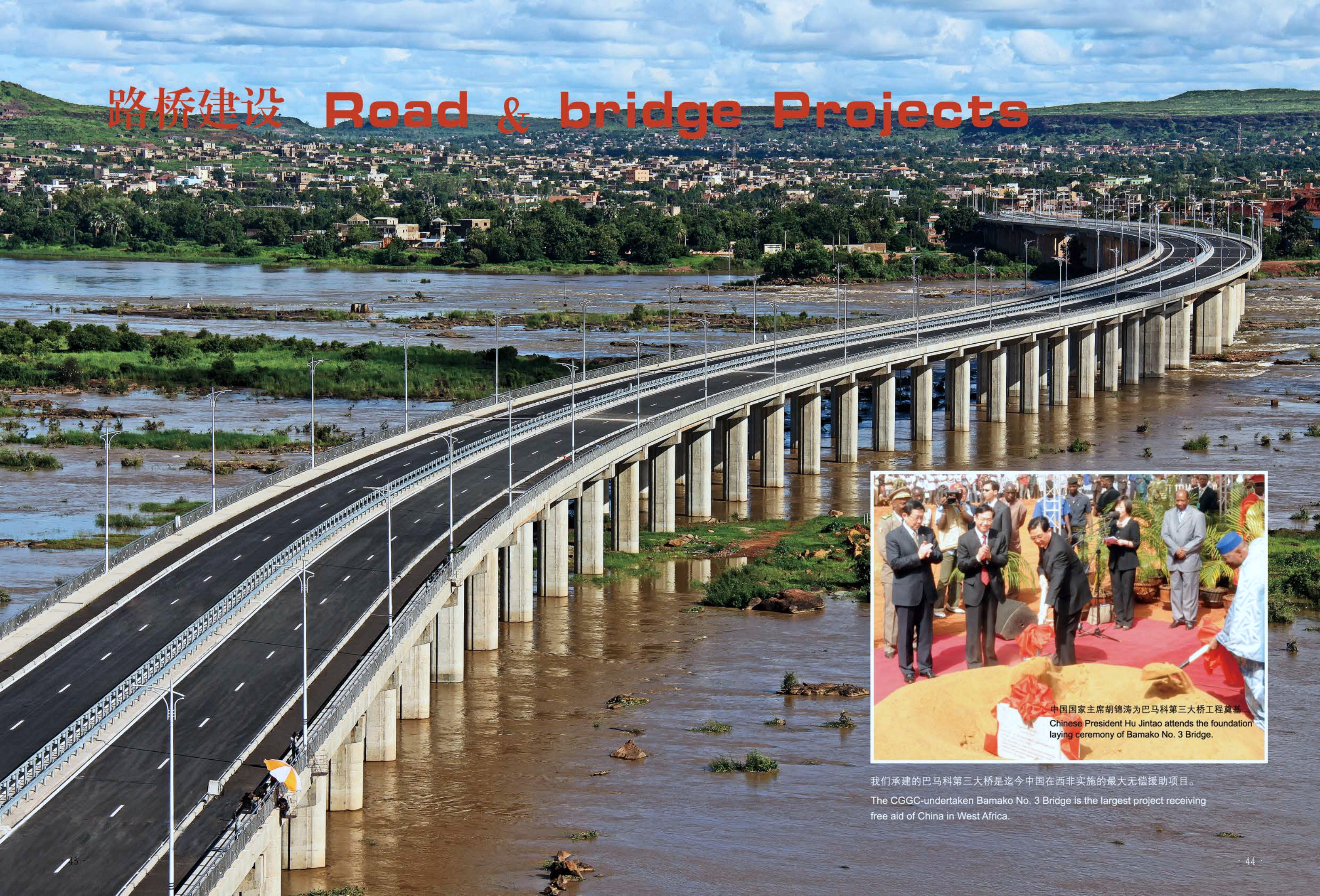
CGGC-undertaken FAN Hydropower Station Project in Ethiopia is the first EPC project undertaken by Chinese companies in East Africa, and its construction was funded with bank loans from China.

我们在伊朗承建的莫拉萨德拉水电站项目由中国的银行和当地基金会联合提供融资。

The CGGC-undertaken Mollasadra Hydropower Station in Iran was co-funded by China's banks and Iran's Foundation for Disabled Veterans.



路桥建设 Road & bridge Projects



中国国家主席胡锦涛为巴马科第三大桥工程奠基
Chinese President Hu Jintao attends the foundation
laying ceremony of Bamako No. 3 Bridge.

我们承建的巴马科第三大桥是迄今中国在西非实施的最大无偿援助项目。
The CGGC-undertaken Bamako No. 3 Bridge is the largest project receiving
free aid of China in West Africa.

我们在中国和亚洲、非洲等十几个国家和地区承建了大量公路、铁路和桥隧工程，是国际交通基础设施建筑市场上的重要的中国力量。

CGGC has undertaken many highway, railway, bridge and tunnel projects in over ten Asian and African countries and regions including China, and is an important force from China in the international market of transport infrastructure construction.



沪蓉西高速公路 Shanghai-Chengdu Expressway



我们建设的印度东西走廊、南北走廊公路工程是印度的国家重点工程。

The North-South and East-West corridors constructed by CGGC are national key projects of India.



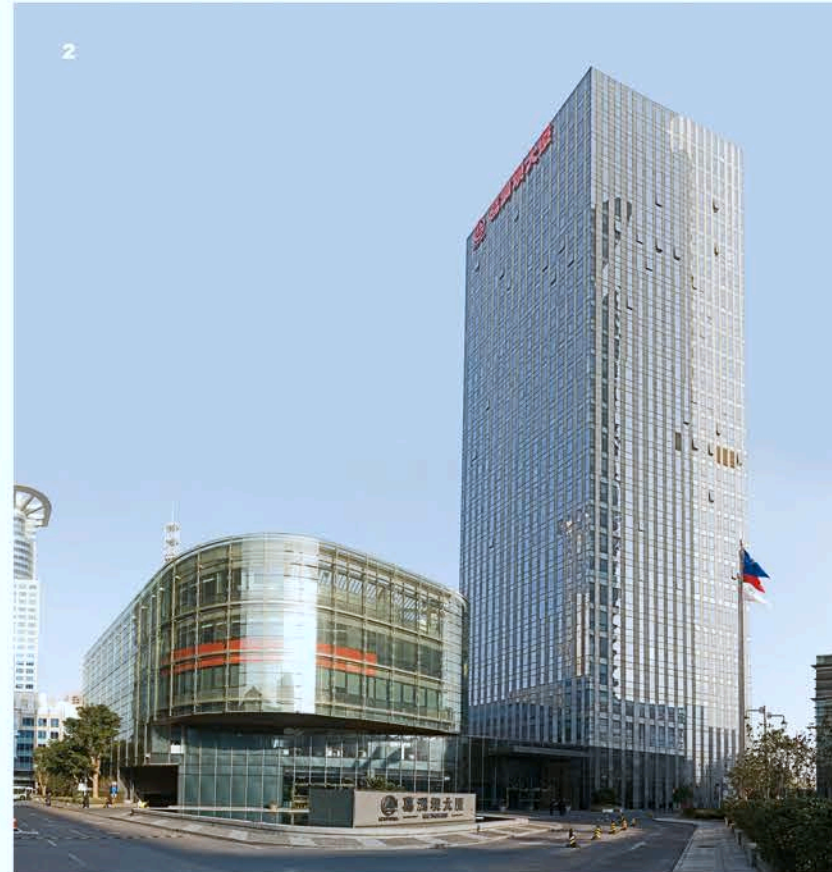
泗阳大桥
Siyang Bridge

沪汉蓉高速铁路湖北段
Hubei Section of Shanghai-Wuhan-Chengdu High-speed Railway



房建工程

Housing Construction Project



1. 我们正在建设的武汉葛洲坝国际广场总建筑面积约为49万平方米，设计集金融、办公、商业、居住、休闲等功能于一体，主楼设计高度355米。

The Wuhan Gezhouba International Square under construction covers an area of about 490,000 square meters and is designed to integrate finance, office, commerce, residence, entertainment and other functions, with a 355m-high main building.

2. 上海葛洲坝大厦是我们上海开发的首个高端商务地产项目，荣获上海市优质结构奖、全国装饰工程奖及2010年度上海市白玉兰工程奖。

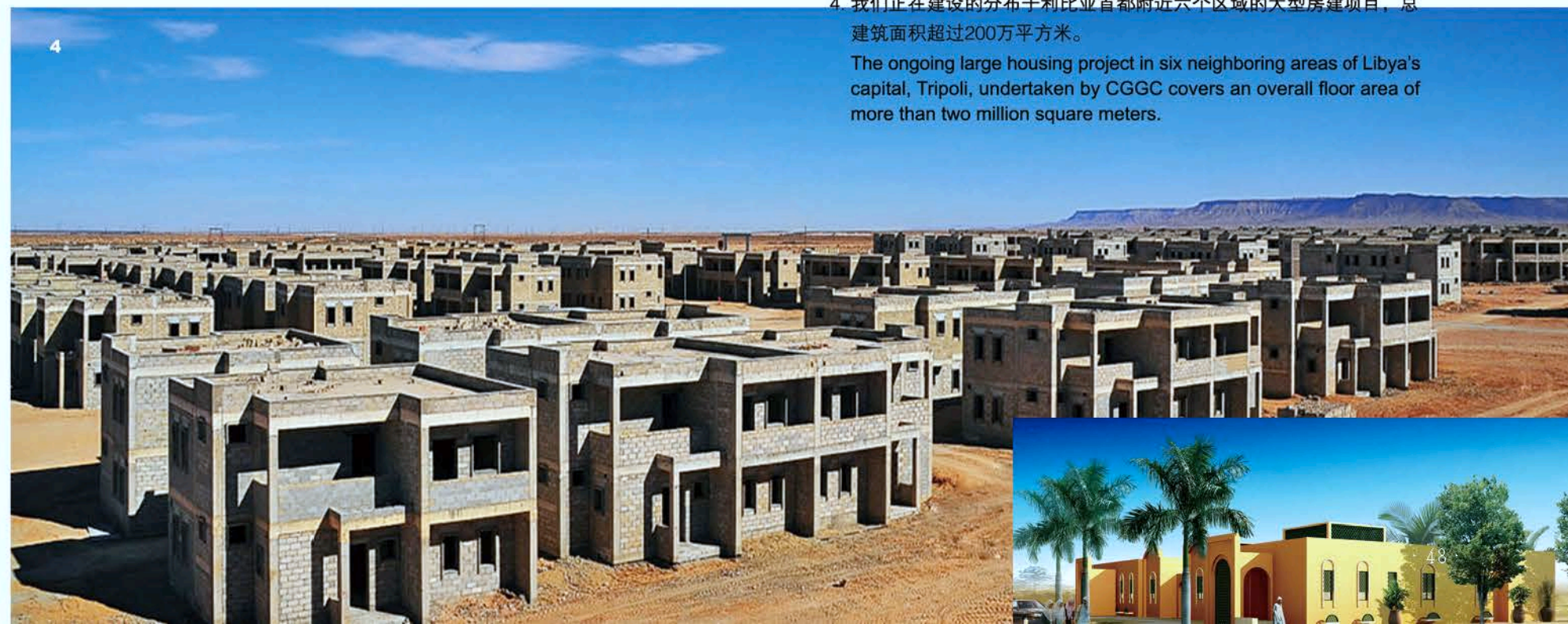
Shanghai Gezhouba Tower is the first high-end commercial property developed by CGGC in Shanghai. It has won the Shanghai Supreme Structure Award, the National Decoration Award and 2010 Shanghai Magnolia Engineering Award.

3. 我们正在建设的蒙古雅玛格新城房建项目为“蒙古国政府建设10万套住宅项目计划”的重要组成部分。

The ongoing New Yarmag Housing Project undertaken by CGGC is an important part of Mongolian Government's Plan of Constructing 100,000 Residences.

4. 我们正在建设的分布于利比亚首都附近六个区域的大型房建项目，总建筑面积超过200万平方米。

The ongoing large housing project in six neighboring areas of Libya's capital, Tripoli, undertaken by CGGC covers an overall floor area of more than two million square meters.



我们充分发挥集团优势，形成了城市综合开发、居住地产、商务地产和保障住房等四大业务线，房屋建筑工程项目遍布中国，并辐射至亚洲、非洲等区域。

By making full use of its advantages as an enterprise group, CGGC has established four major business lines including comprehensive urban development, residential properties, commercial properties and subsidized housing. It has launched housing construction projects across China and even in Asia, Africa and other regions.

葛洲坝绿城-京杭广场为北京通州国际新城的地标性城市综合体

Gezhouba Jinghang Green Town Plaza is a landmark urban complex in Tongzhou international new city, Beijing.



机场港航

Airport &

Port Projects



1. 海南美兰机场

Hainan Meilan International Airport

2. 大连新船重工10万吨级船坞及码头新建工程

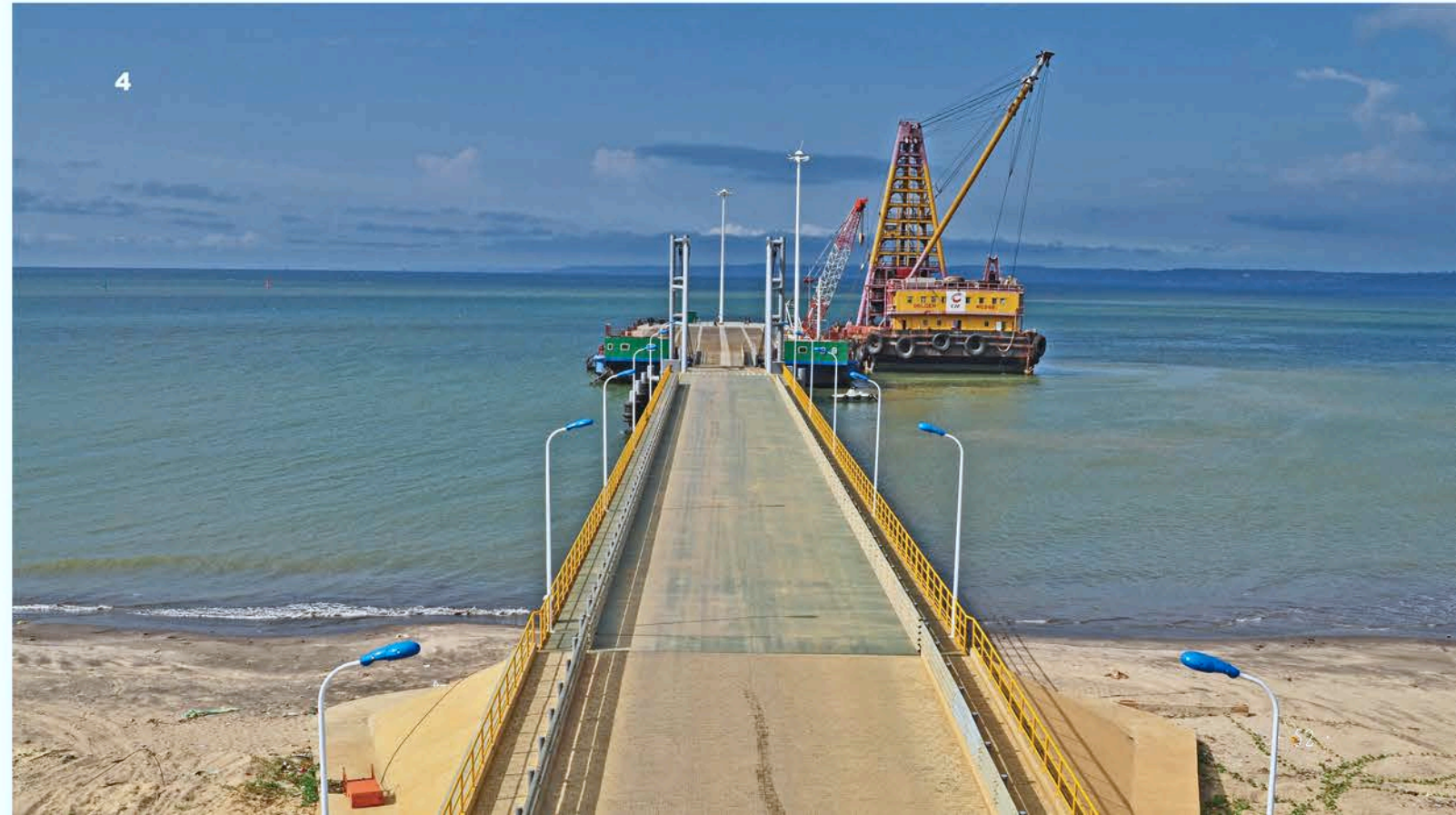
Newly built 100,000-ton dock and wharf project for
Dalian New Shipbuilding Heavy Industry Co., Ltd.

3. 四川康定机场

China: The Kangding Airport in Sichuan

4. 安哥拉·卡宾达应急码头

Angola: Cabinda Emergency Port



市政工程 Municipal



我们承建的科威特苏比亚配水工程是目前科威特最大、最先进的供水工程。

Subyia Water Distribution Project undertaken by CGGC is the largest and most advanced water supply project in Kuwait.



河北宣化水处理厂
China· The Xuanhua Water treatment plant in Hebei

Project



伊拉克·苏维拉污水处理工程
Iraqi ·Siwera Sewage Treatment Project

我们正在建设的埃罗莎-曼特卡尔农业发展项目是委内瑞拉农业基础设施建设的重要项目。

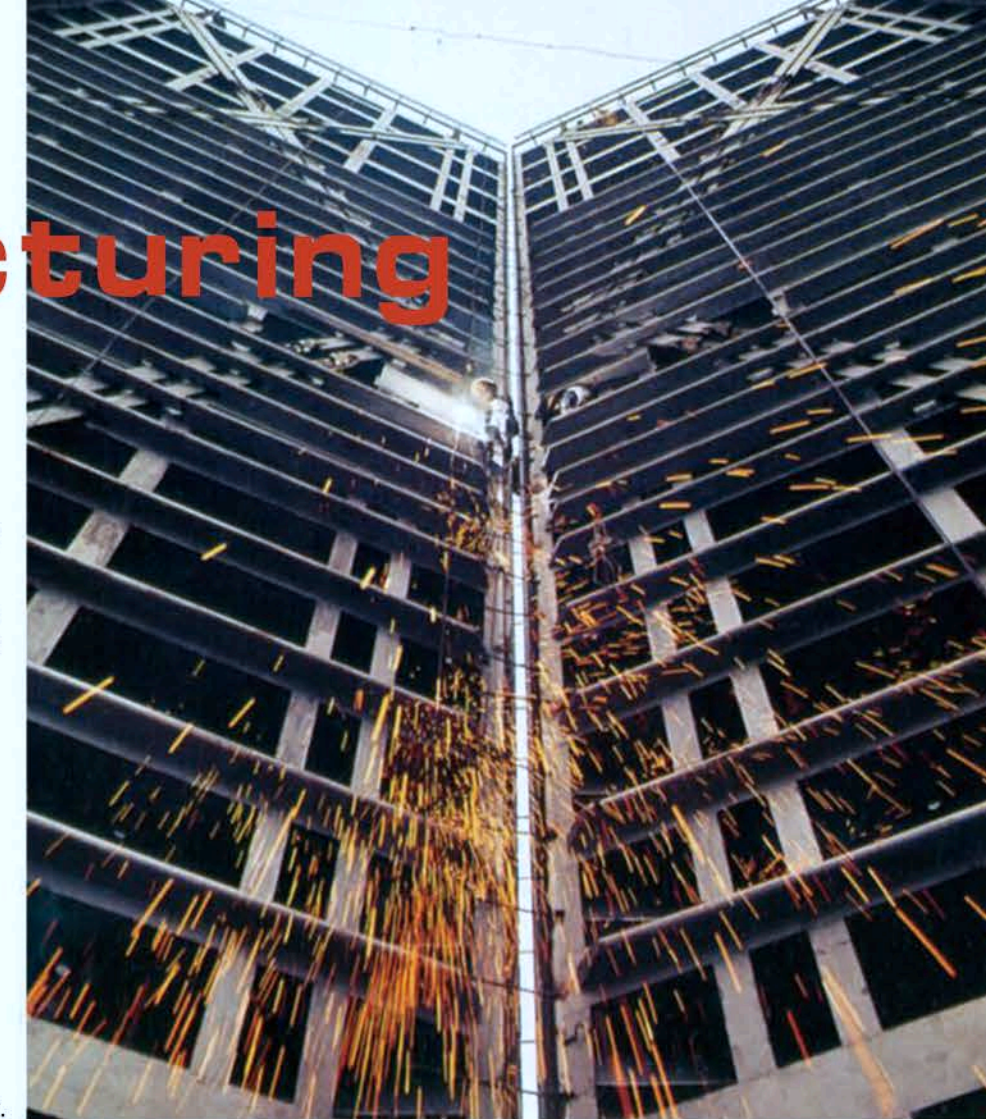
Rosa-Mante Carl Agricultural Development Project under construction is an important part of Venezuela's agricultural infrastructure construction.





赤道几内亚马拉博污水处理工程，是赤道几内亚规模最大、最先进的大型市政工程项目。
Malabo Urban Sewage Treatment Project is the largest and most advanced municipal works in Equatorial Guinea.

装备制造 Equipment Manufacturing



自主研发的 ± 800 千伏特高压平波电抗器，达到国际领先水平。
The independently developed ± 800 KV smoothing reactor reaches the world advanced level.

世界首座鼓形滤网立式安装调试平台
The world's first vertically installed drum filter screen debugging platform.



我们制造并安装了三峡工程永久船闸全部金属结构
We manufactured and installed all metal structures of the permanent ship lock of the Three Gorges Project.

浮式起重机
Barge Derrick

门式启闭机
Gantry crane



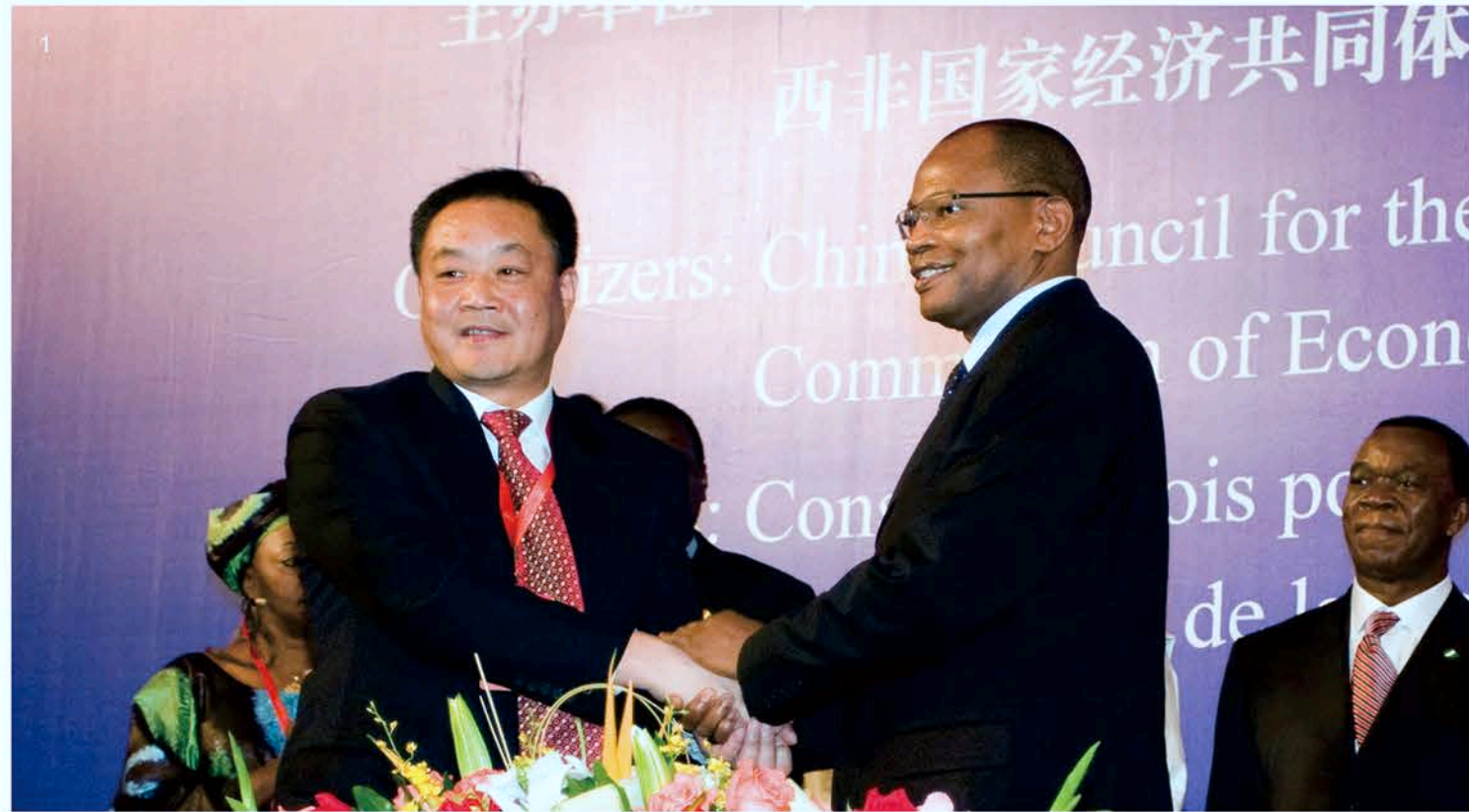
安哥拉26MW集装箱式重油电站
26MW containerized heavy oil power station in Angola

三峡工程泄洪闸巨型弧型闸门制作安装
Manufacturing and Installation of Super Radial Gates of the Spillway of the Three Gorges Project.



社会责任

Social Responsibility



我们在建好优质工程的同时，大力推行属地化和本地化，致力于帮助所在国家发展经济，改善民生，实现了与所在国的和谐相处，促进了共同发展。

While constructing quality projects, CGGC energetically promotes localization and devotes itself to developing local economy and improving local people's livelihood. Thanks to such efforts, it maintains a harmonious relationship with host countries and promotes mutual development.



1. CGGC总裁聂凯代表中国企业家与西非伙伴签署项目合作意向协议

1. CGGC president Nie Kai, on behalf of Chinese entrepreneurs, signs the project cooperation intention agreement with partner from ECOWAS.

2. 在2011年利比亚撤离行动中 CGGC 担当起比利亚西区11家中资公司的前头组织工作 打通了万余同胞 安全撤离的“生命线”

2. In the "Evacuation from Libya" in 2011, CGGC led the organization of 11 Chinese companies to evacuate, and got through a lifeline for over 10,000 Chinese people.

3. 对外承包工程行业AAA级信用企业

3. An international contractor with AAA credit

4. 对外承包工程企业社会责任金奖企业

4. Winner of the CSR Gold Prize for China International Contractors

5. 感动非洲十大中国企业

5. Among the Top Ten Chinese Enterprises in Africa



在中国、非洲、东南亚、拉美等国家和地区，我们倡导并积极参与了教育与培训、医疗服务、震灾救援、环境保护和社区建设等众多领域的公益事业，投入巨额资金，用于回报社会。

CGGC makes contributions to the society by advocating, actively participating in and significantly investing in public welfare undertakings in fields like education and training, medical service, disaster relief and rescue, environmental protection and community construction in china, Africa, Southeast Asia, South Asia, Latin America and other countries and regions.

6. CGGC向赤几马拉博市无偿捐赠五口公益水井

6. CGGC donates five public wells to Malabo, Equatorial Guinea.

7. 优先选用当地劳务 改善当地就业 提高当地劳务技能

7. Priority is given to local labors in the recruitment to improve local employment and skills of local labor.



源自中国 服务全球

ORIGINATE FROM CHINA AND SERVE THE GLOBE

互利共赢 共同发展

MUTUAL BENEFIT AND DEVELOPMENT

CGGC