

A hand holding a crystal ball containing a modern building, symbolizing sustainable development.

BOUYGUES CONSTRUCTION

SUSTAINABLE DEVELOPMENT



BUILDING SOLUTIONS FOR A DEMANDING WORLD

"Building a sustainable world"



For Bouygues Construction, sustainable development offers us a tremendous opportunity to move forward. It challenges us to innovate in order to deliver high-performance energy-efficient and environmentally friendly solutions for our clients. By understanding the combination of impacts created during the life cycle of our constructions, it leads us to rethink our offers and our production methods. So, from now on, "sustainable construction" is our number one area of research and development.

Today, people are becoming more sensitive to sustainable development issues and it is important for our staff that we are able to demonstrate that we are addressing these issues in a responsible manner. Our sustainable development approach helps to underpin our activities in the communities where we are established by working together with local government in order to recruit locally, offer employment opportunities to the unskilled and long term unemployed and help those in difficulty.

Our chosen way forward is ambitious but also strategic since it is essential for the future competitiveness of the Group. It is built on the involvement of everyone concerned: not only our staff, but also our clients, our suppliers and our subcontractors. I am convinced that we all have everything to gain by meeting this challenge together!

Yves Gabriel
CEO, Bouygues Construction

The stakes involved

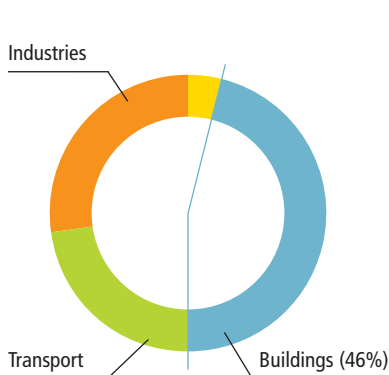
> Construction is a labour-intensive industry with significant social issues relating to integration and health and safety at work.

> Construction activities have a major impact on the environment, worldwide, they account for:

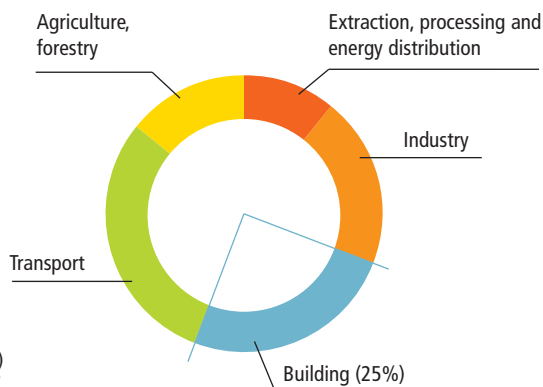
- 40% of natural resources,
- 40% of the world's energy resources,
- 40% of all waste, and,
- 40% of all CO₂ emissions.

Buildings in France (2006 figures):

> The top consumers of energy



> Buildings – the second biggest source of CO₂ emissions.



In France, the Grenelle de l'Environnement (*) is driving radical and sweeping changes:

- By 2012, all new buildings must be low energy (using less than 50KWh/m²/year), and by 2020, they must all be energy-plus.
- Energy consumption of existing buildings to be reduced by 38% by 2020.
- Development of eco-neighbourhoods.

(* The forum on the environment organized by the current French government).



A structured approach

Bouygues Construction has founded its sustainable development policy, "Actitudes", on seven areas of progress with 42 core actions for improvement which are common to all the Group's businesses.

A score sheet details the goals for each of the 42 actions, with targets for four levels of performance, from 1 (low) to 4 (excellent). Each subsidiary can assess its progress and set its own annual targets. Year on year, this process enables subsidiaries to prioritise their goals and achievement timeframes within the common core of actions.

The Sustainable Development department is responsible for communicating and rolling out the Actitudes policy, supported by a network of 90 managers who have been specifically appointed to lead its implementation in their respective subsidiaries.



7 areas



of progress towards sustainable development



Theme 1

Foster a trusting relationship with our clients, based on consideration, transparency and innovation.



Theme 5

Establish balanced, long-term relationships with our partners, suppliers and subcontractors.



Theme 2

Incorporate risk assessment into the day-to-day management of the company.



Theme 6

Ensure that our businesses respect the environment.



Theme 3

Lead our business sectors in terms of occupational health and safety.



Theme 7

Participate in the economic and social life of the regions where we operate.



Theme 4

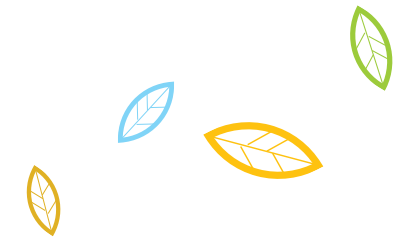
Develop our employees' skills and promote equal opportunity.



Bouygues Construction subscribes to the United Nations Global Compact and has undertaken to promote its ten sustainable development principles.



Areas of progress



Areas of progress

Key figures for 2007

Main actions taken

Balanced development to serve our clients better



Establishing a relationship of trust with our clients, based on consideration, transparency and innovation.

- Satisfaction surveys conducted on 34% of completed projects.
- 57% of turnover from projects with triple certification.

Incorporating risk management in the day-to-day running of the company.

- 61% of turnover from projects where a formal analysis of environmental risks was carried out.

Creating long-term balanced relations with our partners, suppliers and subcontractors.

- 38% of turnover from operational units that have incorporated the sustainable development charter in their contracts with subcontractors and suppliers.

- General use of client satisfaction surveys, with greater call on specialist external organisations.
- Implementation of Quality, Safety & Environment certification policies.
- Heightening managers' awareness of business ethics: a code of ethics for all members of the workforce, training managers in the rules of competition and the fight against corruption.

- Extending the analysis of the environmental, social and image risks involved in in-house procedures.
- Charting of risks by subsidiary (identification and weighting of the risks).

- Partnerships for progress with subcontractors (working groups, conventions, satisfaction surveys).
- Responsible purchasing policy (assessment of the environmental performance of products, promotion of ecologically-friendly equipment, working clothes in cotton from fair trade sources).
- Sustainable development charter attached with contracts, in order to involve suppliers and subcontractors.

Commitment to Corporate Social Responsibility at work and in society



Leading safety and health protection in our lines of work.

- 75% of turnover from OHSAS 18 001 certified projects.
- Accidents at work rate : 14.76.

Developing the skills of our workforce and promoting equal opportunity.

- 40% of the workforce has received training during the year.
- 17% of executives are female.
- 449 disabled employees in France.

- 100% of operational units have measurable safety objectives.
- European Safety Day (9,000 participants), followed by an awareness campaign on "Safety, my fight for life".
- Safety training for site workers validated by a "Building Permit" and recruitment of Safety & Accident Prevention managers.
- Road safety awareness campaign with the Automobile Club and the national police.

Developing expertise

- Foundation of a Bouygues Construction University, setting up the Pro Academy in Europe, and a QSE Academy for site workers.
- Inclusion of workforce satisfaction surveys in the company's management cycle (8,000 employees surveyed in 2007).
- Implementation of a cycle of training courses in sustainable development.

Promoting diversity

- "Equal Opportunities" training for recruitment managers and for line managers to combat discrimination in employment.
- "Enterprise and Handicap" Charter with the Ministry of Labour, Social Cohesion and Housing.
- "Handicap Plus" programme to improve the comfort and accessibility of disabled people in completed buildings, above and beyond regulatory requirements.

Participating in the economic and social life of the areas where we operate.

- 175 partnerships supporting education and health.

- Actions to promote the integration of people in difficulty "Passerelle pour l'emploi" (Outreach for Jobs) programme in the Greater Paris area, supporting sports associations for young people from inner-city districts ("Sport in the City", "Soccer Trophy").
- Agreement with EPIDE (a Defence ministry corporation for social integration) for the social and employment integration of young people with educational and social difficulties.
- Construction of schools near construction sites abroad (Thailand, Cameroon, etc.).
- Patronage of the Louvre museum for development of a new Antiquities section of the museum.

Innovation to protect the environment



Protecting the environment in carrying out our activities.

- Orders taken for 101 high performance energy-efficient buildings in 2007.

- 61% of turnover with ISO 14 001 certification.
- 184 "Blue Sites" in Europe.

- 15 employees accredited for conducting carbon audits in the company.

Design of structures

- Setting up a sustainable construction competence centre to lead a network of twenty experts and an R&D programme (concerning energy performance of buildings, total cost, use of renewable energy, etc.).
- "Projection", a tool for assessing the sustainability of housing projects, encouraging clients to adopt the most environmentally sound and economical solutions (150 sales/commercial staff trained).
- Construction of new head offices of subsidiaries in low-energy consumption buildings (BBC certification).
- Training of sales/commercial staff and technicians in sustainable construction (1,500 in 2008).

Reducing the environmental impacts of our construction sites

- Definition of environmental standards applicable to construction sites to limit their impact (Bâtiment France).
- Implementation in Europe of the in-house "Blue Site" certification awarded to construction sites that are exemplary regarding the environment, safety and quality.
- Campaigns to educate the workforce in "environmentally-friendly" measures.
- Preservation of biodiversity, particularly in infrastructure projects (such as the A41 and A28 motorways).

Reducing CO₂ emissions related to our activities

- Design of a tool for calculating the carbon footprint adapted to the Group's different lines of work and definition of action plans to reduce CO₂ emissions (by vehicles, computer equipment, etc.).
- Members of staff from each subsidiary trained by ADEME (the energy control agency) and authorised to conduct carbon audits.
- Assessment of the carbon footprint of forty building and public works projects.



Balanced development to serve our clients better

FORGING A RELATIONSHIP OF TRUST WITH OUR CLIENTS

> Attentiveness/Consideration and transparency

To improve our attentiveness to our clients, we have to know their honest and freely expressed opinion. That's why we have prioritized the use of external organizations to conduct our client satisfaction surveys.

Our ethics committee continues to raise awareness amongst our staff, through the Code of Ethics, distributed to all members of staff, and through training courses for managers on the rules of competition and the fight against corruption.

The confidence of our clients also rests on our guarantees of the quality of our products and of our production methods, backed up by a management system incorporating the Quality, Safety and Environment standards (57% of our turnover comes from projects with triple certification)

1,320

managers trained in ethical matters in the last three years.

> Assisting clients in their sustainable development approach

Where Bouygues Construction designs projects, as in property development and PPP (public-private partnership), we work with clients to devise innovative, sustainable solutions for the construction. For example, the "Projection" software package was designed in-house and is used for assessing the sustainability of housing projects. Through a series of 120 questions, it determines the project's profile, measures its capacity for obtaining the "Housing and Environment" label, and proposes solutions.



projection

The Bouygues Construction sustainable construction index

INCREASING THE CONTROL OF ENVIRONMENTAL AND SOCIAL RISKS

The Group has intensified its vigilance regarding social, environmental and corporate image issues by improving its procedures and employee skills in this area. For example, Bouygues Entreprises France-Europe has developed a method for assessing environmental risks and opportunities, from the commercial phase, and it circulates environmental standards to construction sites, with targets that go beyond the requirements of current regulations (for example, reduction of the volume of waste, measurement of noise, reduction of water consumption, etc.).





● INVOLVING OUR SUPPLIERS AND SUBCONTRACTORS

Bouygues Construction has devised a “sustainable development charter” to involve suppliers and subcontractors in its sustainable development policy. This is written into contracts, and includes undertakings regarding standards for work, health and safety, fair practice, and preservation of the environment. In addition, most subsidiaries have developed partnerships (meetings, working groups and training courses) with their suppliers and subcontractors to mobilise them in our Quality Safety & Environment policies.

> Responsible purchasing

The Bouygues Construction purchasing policy includes environmental sourcing requirements, with a database of products and materials assessed according to their environmental performance and a catalogue of the most environmentally-friendly equipment. An analysis of environmental and health risks has been performed for the vast majority of purchased products, divided into 55 categories (prefabricated products, vehicles, external doors and windows, curtain walls, etc.).

38%

of our activities have applied the “sustainable development and suppliers” charter.

“Bouygues Bâtiment Ile-de-France provides back-up on sustainable development issues and “eco-friendly actions and measures” by sharing its know-how and best practice.”

Patrick Prudent,
CEO, Recma (subcontractor
of Bouygues Bâtiment Ile-de-France)

Energy performance is no longer a question of cost!



“The design & build extension of the ADEME headquarters in Angers featured very ambitious environmental and energy-saving targets, with the aim of obtaining a High Environmental Quality certification. During the construction phase, our positive relationship with GTB Construction, and the depth of involvement of their teams in the environmental issues surrounding this project, led us to aim higher, and should enable us to get the BBC (low energy building) certification. So, for the 14 HQE targets, we have achieved, and frequently gone beyond the “high performance” level; for energy, waste and water management, and for the “low nuisance factor” for sites. On this last point, it is important to highlight the fact that GTB Construction made every effort to minimize nuisance (noise, dust etc.), allowing our teams to work normally during the alterations. Furthermore, this site was the chance to do a full-scale test on several of our own recommendations for sustainable construction, and also to pinpoint technical difficulties, such as the calculation of energy consumption of buildings. Most importantly, through this project, ADEME and GTB Construction have shown that it is possible to build high performance energy-efficient buildings without incurring significant extra costs (approx.10%). And, in the case of new constructions, it is the decisions we take today that will enable us to meet the targets set for the reduction of CO₂ emissions tomorrow”.

Xavier Lefort, General Secretary, ADEME





Commitment to social and civic responsibility

BEING A LEADER IN HEALTH AND SAFETY

The Group's accident prevention policy is delivered through training, events and by encouraging them to take responsibility for their actions. It is part of a system of overall safety management, recognised by OHSAS 18 001 certification which covers 75% of Bouygues Construction's activity.

Major operations are organised to mobilise the workforce, such as: European Safety Day, which brought together 9,000 people on 250 construction sites; training of site workers validated by a test of knowledge to earn a "building permit"; and "warming up" exercises before starting a job, etc. Lastly, the profit-sharing dividend paid to employees takes into account the safety record of subsidiaries. Bouygues Construction is extending its accident prevention measures to temporary staff and to subcontractors' personnel.

14.7

The Bouygues Construction work accident rate is 14.7: four times lower than the average for the sector in France.

DEVELOPING WORKFORCE EXPERTISE

With a workforce of more than 50,000 throughout the world, Bouygues Construction has an extremely dynamic employment policy (with 10,000 new employees in 2007). It gives priority to local employment through innovative measures to highlight its trades, such as the "Jobs Bus" which has gone to meet potential employees in dozens of areas in Normandy and Savoy.

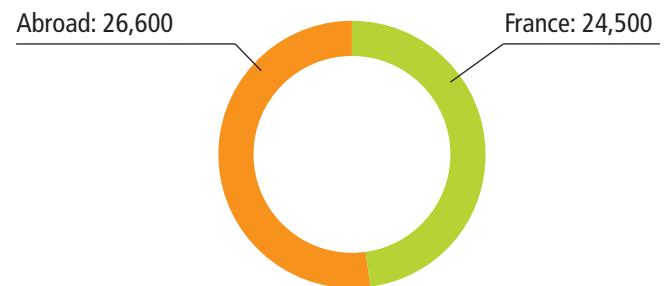
Abroad, the Group has a proactive policy for the employment of local site workers and executive staff, contributing to the development of the countries in question. For example, in Cuba, Bouygues Bâtiment International has put in place a highly-structured policy for transferring know-how to Cuban personnel.

Substantial sums are committed to developing employees' skills throughout their careers. Bouygues Construction devotes nearly 5% of its wage bill to training in France (37 million euros in 2007). These various courses are now organised around the Bouygues Construction University.

Lastly, profit-sharing agreements and the opening of capital to employees involve the latter in the company's success.

51,100

employees



Hiring of 10,000 new recruits planned for 2008.

14%

of the Group's capital is held by the employees, who are collectively Bouygues's second biggest shareholder.



> Encouraging diversity

In order to combat employment discrimination, an “Equal Opportunities” training course has been designed for recruitment managers and operational managers. One hundred people will have taken the course by the end of 2008. This training is backed up by a clear commitment from General Management (communication on the benefits of diversity by Yves Gabriel, CEO, in the management newsletter and by video).

This promotion of diversity is particularly highlighted by the increasing number of jobs with operational responsibility open to women (construction site management, commercial positions, property development, etc.). Initiatives such as the partnership between GFC Construction and the ANPE public employment agency to train women site workers are continuing with an effort to adapt certain jobs.

The integration of disabled people (449 were employed in French subsidiaries in 2007) and the facilitation of their continued employment remain priorities.



“The company has everything to gain from diversity”



“After a Masters Degree in social protection law, I was hired to work in ETDE’s Human Resources Department following a job-dating operation organised by Adapt. I never considered that I was hindered by my impaired hearing. It is part of me, but I am above all a human resources professional. My colleagues were given an introduction to impaired hearing so that they could understand my impairment and learn how to communicate with me. As a result, fears and prejudices disappeared by themselves. Of course, some adaptations are necessary, such as having a sign language interpreter present for group meetings. Being confronted with disability is mutually enriching. And the company has everything to gain!”

*Stéphanie Quintin, Cost Estimation Manager,
Human Resources Department, ETDE
(suffers from severe hearing impairment)*

As part of the “Entreprise-handicap” charter signed with the Ministry of Labour, Social Cohesion and Housing, Bouygues Bâtiment Ile-de-France has implemented a “Handicap Plus” programme including a series of services (above and beyond the requirements of regulations) which the firm provides to improve the comfort of disabled people in buildings that it constructs, and a series of optional technical solutions to be provided by the buildings’ owners.



Commitment to social and civic responsibility

Through its subsidiaries, Bouygues Construction supports **175** community associations and collaborates with more than **150** social integration organisations.



● PARTICIPATING IN THE ECONOMIC AND SOCIAL LIFE OF LOCAL COMMUNITIES

Bouygues Construction intends to play an active part in the economic and social life of the locations where it is based. Through its subsidiaries' initiatives, the Group focuses its actions on social integration, education and health.

This involvement takes various forms, such as funding of associations that work for the social integration of young people (GFC Construction's partnership with "Sport in the City"), the "Gateway to Employment" programme in the Greater Paris Area which helps to find jobs for young people and adults who have no prospects or who are changing their line of work, and the agreement with EPIDE, an agency of the French armed forces, offering social integration and work opportunities to young people experiencing difficulties.

Near construction sites abroad, supportive measures are being put in place. For example, two schools have been funded and built on the initiative of construction site personnel in Thailand and Cameroon. Another example: Bouygues Bâtiment Equatorial Guinea provides drinking water supply outlets for the local people in all areas where it is based, and it provides periodic distribution to public institutions (clinics and schools).

"A sincere and constructive policy"



The "Bleu Oxygène Développement" association assists people in difficulty, particularly young people who have left school without any qualifications, to help them to enter the world of work. This entails work/study schemes, training programmes or direct employment.

How did the partnership start with Bouygues Bâtiment Ile-de-France?

In 2004, we approached Rénovation Privée, a subsidiary of Bouygues Bâtiment Ile-de-France, to submit young people's job applications to them. Those who were hired at the time are still working in the Group. Subsequently, we signed an outline agreement, then an agreement in 2007 which enabled six trainees to be employed. Finally, the partnership was extended to all subsidiaries and it now involves some ten young people.

Why has it been so successful?

Our partnership is based on mutual trust. The young people that we propose are determined to learn a trade and to accept the company's rules. Bouygues Bâtiment Ile-de-France is fully committed to its training role, particularly through the assistance provided by mentors and human resources. This partnership has opened the doors of Bouygues Construction for young people who would never have dared send their CVs to the company. They've realized that even they can succeed.

Azmy Ahriz, educational manager of the BATIPOLE qualification access programme, run by the "Bleu Oxygène Développement" association

Innovating to protect the environment



INCORPORATING ENVIRONMENTAL ASPECTS IN THE DESIGN OF STRUCTURES

Faced with the challenges of climate change and the escalating cost of energy, Bouygues Construction offers its clients solutions to improve building energy performance and to limit the impact of structures on the environment.

Therefore sustainable construction is the main focus of the Group's research expenditure (one third of the 2008 budget, a 60% increase). The main subjects concern the energy performance and CO₂ discharges of housing, school and office buildings (both new and existing), the optimization of the overall costs throughout the structure's life cycle, and consumption commitments (on the basis of thermodynamic simulations), etc.

A network of twenty in-house experts was set up, led by the Sustainable Construction competence centre. It is backed by partnerships with the sector's players, such as architects, engineering design firms, materials suppliers, etc. Furthermore, through its subsidiary Elan, the Group offers project owners its advanced expertise in HEQ certification procedures and consultancy for its subsidiaries.

> Low-energy buildings

Bouygues Construction is working on several projects for low-energy buildings or energy-plus buildings. Norpac will build one of the very first energy-plus office buildings in France for the Nord Department Archives. The future head offices of ETDE in Montigny, of Norpac in Lille, and of ADEME in Angers, which are currently being built, aim to obtain BBC low-energy (50 kWh/m²/year) certification.

Another area of action is renovation. At a real estate renewal rate of 1% per year, we will only meet the challenge of climate change if we radically improve the energy performance of existing buildings. This is what Bouygues Construction is doing for the former Axa Tower in La Défense. Totally renovated and renamed as CB 31, the building's energy consumption will be 30% lower than that of a conventional new office building (with equivalent thermal regulations). It will be one of the first tower blocks to obtain HEQ certification in France.

> Preserving biodiversity

Among major infrastructure projects, particular attention is paid to the preservation of ecosystems and to consultation with local residents in order to reduce nuisance caused by the structure. For example, on the A41 motorway from Geneva to Annecy, Bouygues Construction created a compensating wet area and built the La Ravoire viaduct to preserve the habitat of the white-footed cray-

fish. Its design and construction were the fruit of a consultation process with local public administration agencies and the federation of fishermen in the area.

101

high environmental performance buildings designed and sold by Bouygues Construction in 2007.



The Tampines offices project built by Bouygues Construction in Singapore received the "Green Mark Platinum", the highest environmental distinction awarded by Singapore's national building and public works authority. A solar air conditioning system is central to the environmental innovation of this project. This solution (the first of its kind in Singapore) uses solar panels and thermal absorption cold water chiller units which convert the solar energy into cold.



Innovating to protect the environment

As part of the construction of Larnaka Airport in Cyprus, Bouygues Bâtiment International moved nearly 400 lemon and olive trees and placed them in a nursery for replanting in the new airport's green spaces. The subsidiary is also taking part in a programme for reforestation of the island.

“Public consultation concerning the A28 motorway”



“Once the construction of the motorway became inevitable, we decided to do everything possible to ensure that things went as well as possible, whether by limiting its impact on the environment or by assisting the local residents who were directly concerned. Luckily, we found ourselves dealing with open, attentive people, with an environmental engineer specifically assigned to the project. In particular, the studies that we had urgently prepared made it possible to reduce the footprint of certain parts of the site in order to ensure better protection of the forest and river, and to modify the route or the height of the embankments on either side, in order to keep noise levels down in a village. Despite our acknowledged differences, this effective consultation process made it possible to find the compromises that were least detrimental to the parties involved. This working method was highly innovative for a construction project of such a scale, and I think it could serve as an example for other projects.”

Régis Hélène, President of the federation of A28 defence committees

○ REDUCING THE ENVIRONMENTAL IMPACT OF CONSTRUCTION SITES

The preservation of the environment during construction work is the second aspect of Bouygues Construction's environmental commitments. Environmental accident prevention is provided by an environmental management system certified ISO 14 001 version 2004 (for 61% of our activity).

Environmental standards for construction sites have been defined – particularly concerning waste management, reduction of energy and water consumption, limitation of nuisance for local residents and preservation of ecosystems – and their general application is in progress. The “Blue Site” in-house certification (in Europe) is awarded to construction sites which are of a high standard from environmental, safety and quality viewpoints. The assessments performed, which concern both work carried out by Bouygues Construction itself and subcontracted work, involve all contributors in the obtaining of the label.

The Group's employees and subcontractors are also made aware of “environmentally-friendly” daily actions (guides, environment kits and specific training courses).

184

construction sites received “Blue Site” certification in 2007.





● REDUCING BOUYGUES CONSTRUCTION CO₂ EMISSIONS

Bouygues Construction has decided to develop a strategy for reducing CO₂ emissions related to its activities and the structures that it builds for its clients. In order to identify the levers for action, the Group has acquired expertise in auditing carbon footprints. In every operational entity, employees have been trained and accredited by ADEME for conducting carbon audits for clients. Thirty carbon audits of buildings and civil engineering structures were conducted in 2008.

In 2008, in order to apply this approach generally, the Group developed a design calculation tool adapted to its activities. This application is used to highlight ecologically-friendly variants (by CO₂ weighting) and to monitor greenhouse gas emissions from operational units in order to orient action for their reduction. For example, one of the areas of work concerns reducing CO₂ emissions related to company vehicles, with a handy calculator to highlight the least polluting vehicles, training in “eco-driving”, a partnership with Total on Excellium, and major investment in videoconference equipment.

40 %

of the CO₂ emissions from a building are related to the construction, and 60% to its operation (not including user travel; in accordance with 2005 Thermal Regulations in France, for a building with a 30-year service lifetime).



“Blue Site: measurable benefits”

“The “Blue Site” in-house certification takes into account the three dimensions – environmental, social and economic – of sustainable development that the Arcade Group incorporates in its “Les 3 Soleils” certification mark. It meets our requirements for the “low- nuisance construction site”. As the project owner, it guarantees us a reduction in energy costs, raw materials, waste produced and nuisance for the local residents, as well as improved safety on construction sites. This also has a positive effect on the costs and expenses of construction site management, while allowing better appreciation of the workforce in the field. All these points are assessed by means of a series of monitoring tools. This means we can concretely measure the benefits of this approach!”

Lionel Rondeau – National Technical Manager, Arcade Group
(a customer of Bouygues Entreprises France-Europe)

Bouygues Construction and sustainable construction

> At the town or neighbourhood level

- Social and functional mixing of built spaces
- "Soft transport" or non-motorised means of transport ("ecomobility")
- Production and pooling of renewable energy
- Energy management of street lighting
- Management of water and sewage treatment
- Waste management

> New or renovated buildings

- Environmental certifications
- Low-consumption buildings and energy-plus buildings
 - Bioclimatic features and improved insulation
 - Ventilation and quality of internal air
 - Thermal comfort in summer without air conditioning
 - Choosing low environmental impact materials
 - Natural daylighting and customised lighting
 - Inclusion of renewable energy equipment
- Car parks where water can drain into the ground, and water is retained in the soil
- Local, non-allergenic plants

> Operation of the structure

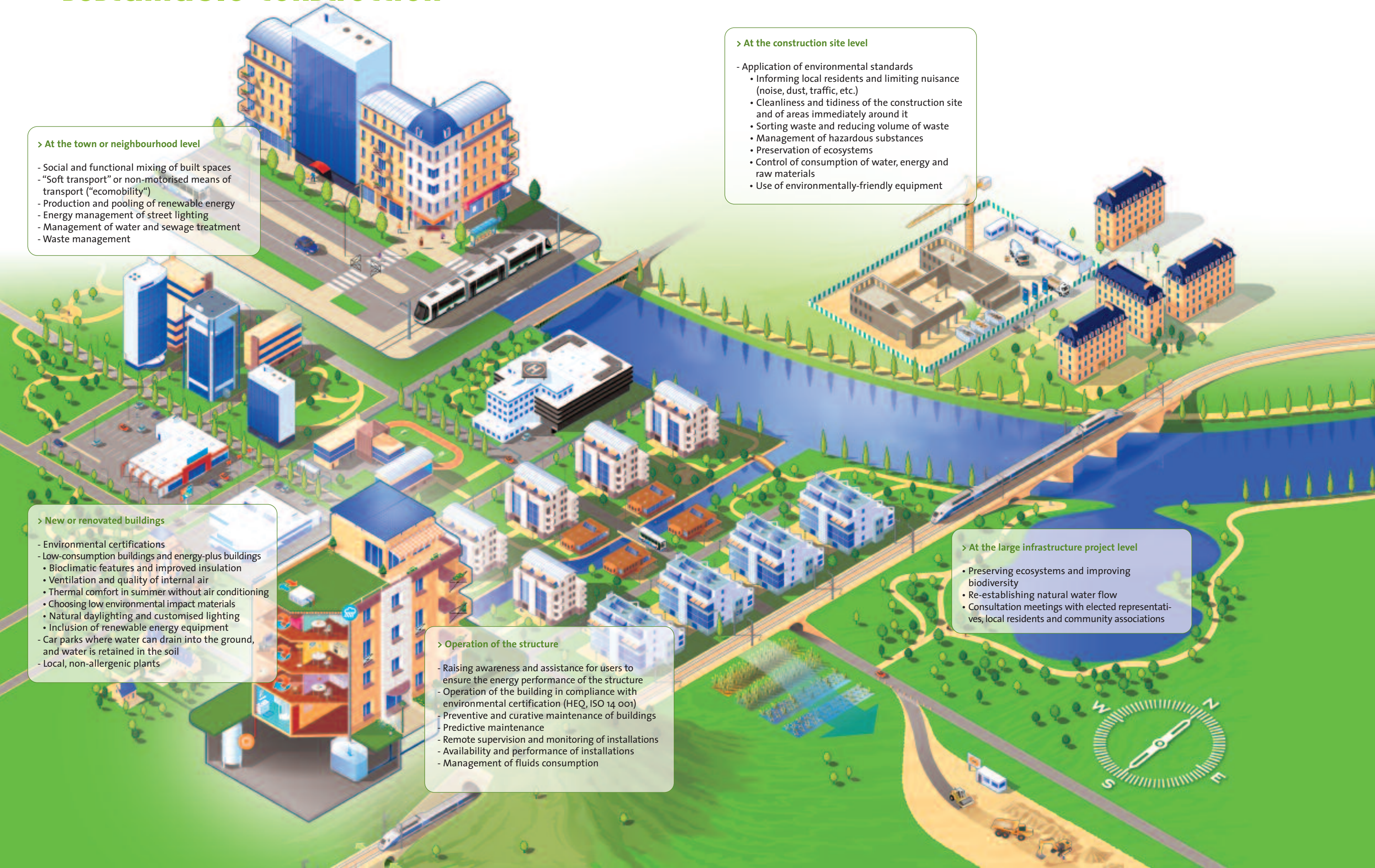
- Raising awareness and assistance for users to ensure the energy performance of the structure
- Operation of the building in compliance with environmental certification (HEQ, ISO 14 001)
- Preventive and curative maintenance of buildings
- Predictive maintenance
- Remote supervision and monitoring of installations
- Availability and performance of installations
- Management of fluids consumption

> At the construction site level

- Application of environmental standards
 - Informing local residents and limiting nuisance (noise, dust, traffic, etc.)
 - Cleanliness and tidiness of the construction site and of areas immediately around it
 - Sorting waste and reducing volume of waste
 - Management of hazardous substances
 - Preservation of ecosystems
 - Control of consumption of water, energy and raw materials
 - Use of environmentally-friendly equipment

> At the large infrastructure project level

- Preserving ecosystems and improving biodiversity
- Re-establishing natural water flow
- Consultation meetings with elected representatives, local residents and community associations



Some examples



> ETDE head offices, Montigny-le-Bretonneux



A low-energy building for ETDE's head office which aims to obtain HEQ certification and "BBC – Effinergie" certification. Main features: high level of insulation, solar protection using metal mesh, heating by wood-fired boiler, solar cooling (thermal solar panels and absorption cooling unit), free cooling in the spring and autumn, and forced ventilation at night in the summer.

> CB 31 Tower, La Défense



The CB 31 Tower (formerly the Axa Tower) will be one of the first renovated tower blocks to obtain HEQ certification. It aims to reach very high targets regarding the reduction of construction site nuisance and the reduction of energy consumption.



> "Blue Site" in-house certification



The "Blue Site" in-house certification takes into account the three dimensions – environmental, social and economic – of sustainable development. In particular, it guarantees compliance with environmental standards on the construction site (reduction of energy consumption, raw materials, and waste produced, limitation of nuisance, and preservation of ecosystems).

> The Nord Department Archives

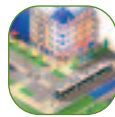


The Nord Department Archives will be one of the very first energy-plus office buildings in France. Main features: high level of insulation, energy production by a cogeneration unit fired by vegetable oil, 350 m² of photovoltaic panels, materials chosen for their thermal and moisture performance and for their durability.

> Home Office (British Ministry of the Interior)



After obtaining an "excellent" distinction in the BREEAM (Building Research Establishment Environmental Assessment Method) for the environmental performance of its construction, Bouygues Construction is providing maintenance and management of the general services for the Home Office for 26 years. It also received this certification for the environmental quality of the complex's operation.



> ZAC du Bois des Granges, Claye-Souilly



Development of a neighbourhood including the use of alternative energy (surplus heat produced by a landfill waste disposal facility), H&E certification and "THPE" (Very High Energy Performance) certification for housing, "soft" mobility (cycle tracks and pedestrian paths), recycling rainwater and selective collection of waste.



> A41 motorway




Construction of the La Ravoire viaduct on the A41 motorway between Geneva and Annecy to preserve the habitat of the white-footed crayfish.



Photos/Illustrations: Willy Berré, Yves Chanoit, Didier Cocatrix, constructionphotography.com, Augusto Da Silva, François-Xavier de Larminat, R.R., Jérôme Epailard, Dominique Le Goaziou



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BUILDING SOLUTIONS FOR A DEMANDING WORLD