

VINCI Construction Grands Projets is actively committed to sustainable development and upholding an economic model that embraces a humanist perspective. In 2008, many projects were launched on our worksites and at head office. VINCI Construction Grands Projets has established a sustainable development committee, made up of operational and functional departments, with a mandate to track key environmental and civic issues and challenges and devise appropriate solutions.

Our Commitment to environment

- Promote innovative ecodesign solutions
 - Select low environmental impact technical solutions and materials
 - Explore renewable-energy solutions
- Respect environment on our worksites
 - Control electricity, fuel, and water consumption
 - Reduce, collect, and recycle construction-related waste
 - Protect the soil and control waste-water quality
- Preserve biodiversity

MEASUREMENT OF CO₂ EMISSIONS

Our carbon impact is 277,000 tonnes of CO₂ emissions, distributed as follows:

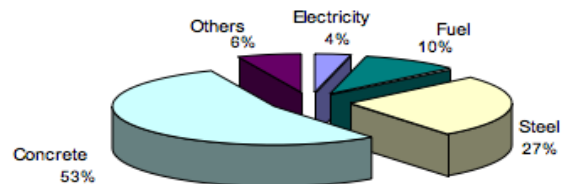
Approximately 440,000 m³ of concrete was used for an average emission of 300 kilograms of CO₂ equivalence.



This tool was developed by the Engineering and Technical Capabilities Department (DIMT) in collaboration with VINCI Construction France, Eurovia, and selected suppliers to assess concrete-related CO₂ emissions using readily available data relating to constituent components, (formulations, transport, implementation, and the geographical location of worksites).

CO₂CRETE IMPACT™ can also be used to measure the impact of state-of-the-art concrete production techniques such as the use of alternative binding materials, the application of innovative manufacturing processes, and the presence of cooling or heating systems.

Estimated greenhouse gas emissions for VINCI Construction Grands Projets in 2008



Carbon impact at the M1 worksite in the U.K.

A carbon impact assessment was carried out during the construction phase of this project. Initial quantities were measured and used to calculate the projected impact. This assessment also helped determine CO₂ reductions due to proposed mitigation solutions.



In addition, the client also asked for a quarterly report of the project's CO₂ emissions. The report includes detailed data regarding the energy consumption, equipment, transport, materials, waste production, and renewable energy.

A 10,000-tonne CO₂ reduction at the Naga Hammadi dam in Egypt

On this worksite, concrete specifications required the use of a particular granulate. There was no source for this type of granulate within 200 km. The concrete formulation was modified following a series of tests, and the worksite (which called for 390,000 m³ of concrete structures) was able to use granulate from a neighbouring quarry. As a result, a 10,000-tonne reduction in CO₂ emissions was achieved.



REDUCING OUR ENVIRONMENTAL FOOTPRINT: A PRIORITY ON OUR WORKSITES

Limit water consumption at the Duplex A86 worksite in France

In order to limit the tunnel-boring machine's water consumption, an air-cooling system was installed. Given a 200 m³/hr rate of water flow for the Tunnel Boring Machine, 180 m³/hr were recycled using two coolers, leading to a reduction in water consumption of 2.4 million m³ during the 13,000-hour excavation phase.



- iguanas found on the site were dropped off to a protected river-side natural habitat,
- awareness-raising activities targeting the local population were carried out.

Environmentally friendly structures on the A19 in France

Environmentally friendly structures will be implemented along highway A19 to protect sensitive areas.

Initiatives include:

- landscape integration with retention basins,
 - restoration of water streams,
 - highway covering in the Montargis forest.
- Signs have been installed to identify sensitive areas and raise worksite employees' environmental awareness.



Sensitive Natural Area



Sensitive Botanical Area

A memo was also sent to all project contributors to emphasize the importance of environmental respect.

Major Projects Convention: carbon-offset initiative

In April 2008, VINCI Construction's Major Projects Convention brought together 200 participants in the Sultanate of Oman where VINCI Construction Grands Projets is currently building the Wadi Dayqah dams. A decision was made at the convention to offset the carbon emissions of project-related flights between Paris and Muscat. The principle of carbon offset is to counterbalance greenhouse gas emissions by funding projects that promote renewable energy or enhanced energy effectiveness, including the production of "green coal" in Senegal and the implementation of biogas reservoirs in India among other initiatives.

Preserve biodiversity

Different initiatives were undertaken on and around the interchange worksite in Trinidad to protect iguanas, a species threatened with extinction:



Temporary worksite installations, soil and sub-soil protection

To meet required size specifications for various temporary worksite installations designed to protect the environment, the Engineering and Technical Capabilities Department (DIMT) has supplied worksites with easy-to-install concrete and correctly sized examples.



Our commitment to civic responsibility

- Ensure safety and security on our worksites
- Enhance our personnel's skill sets
- Promote professional diversity
 - Encourage more women candidacies
 - Ensure effective integration of employees with disabilities
 - Integrate, train, and promote employees from different ethnic backgrounds
 - Support knowledge and skill transfer from senior to more junior personnel
- Encourage civic initiatives



(A)LIVE ON SITE

VINCI Construction Grands Projets has implemented a program for its personnel in France and abroad designed to raise awareness of behaviour-related workplace risk and promote a safety mindset. The program is adapted to each different project and offered in the language of the participants.

In 2008, (A)live on site was deployed on 7 projects (M1, Trinidad and Tobago, LNG Gate, Magenta, Duplex A86, Cairo subway, and Brightwater) and provided training to a total of 451 employees at 35 separate workshops.

Testimonials - Duplex A86

Jacky Loorius, Plant operator

"This training program was very informative and interesting. The film allowed us to confront the realities of the worksite. For a whole day, the discussion centred on the difficulties we encounter, and this facilitates dialogue. This training should have been offered earlier and refresher training sessions are needed in order to retain what we learn."

Antonio Trunfo, Plant operator

"This training makes us aware that the worksite belongs to everyone. There are always many activities going on at once. You don't always stop to think, for example, that storing things in their proper place is a way to keep passageways clear, which helps people work more effectively and in complete safety. After the training, a traffic supervisor was appointed, there was increased safety awareness on site, and everyone made an effort to store things properly."



TEAM GRANDS PROJETS

In 2008, as part of its training plan, VINCI Construction Grands Projets developed its "Team Grands Projets" training program. This training initiative, which targets managers and directors of major projects, is designed to promote knowledge and skill-sharing. It was already offered to 36 participants in two 3-week sessions.



WOMEN IN THE WORKPLACE

While women account for 9.3% of the workforce in the building and public works sector in France and 13% around the world, they make up 16.7% of the personnel at VINCI Construction Grands Projets in France.

DISABILITY POLICY

As part of its disability policy, VINCI Construction Grands Projets has decided to issue a special cheque book called CESU (Universal Service Employment Cheque) to its employees with disabilities to assist them in their daily tasks. In related news, the Qatar Bahrain Causeway project has received the United Nations Inspector and initiated contact with various employment associations for the disabled, which should lead to the hiring of about ten employees with a disability.

CIVIC INVOLVEMENT

Community involvement at the Clackmannanshire Bridge, Kincardine, Scotland

The Clackmannanshire Bridge project provided an opportunity for 500 children from 12 schools to learn about the building profession. Under the supervision of volunteering engineers, the youngsters used a construction kit to build a 8 m long cable-stayed bridge. Wearing their safety helmets, the children tested the robustness of their bridge by walking across it.



Company daycare

VINCI Construction Grands Projets took part in setting up the "Petits Chaperons Rouges" inter-company daycare, which opened its doors on December 1, 2008. By offering employees a child-care solution, the new daycare allows them to balance their professional and personal lives more effectively. Places at the daycare have been reserved for employees who have put in a request.



© Les Petits Chaperons Rouges

Our commitment to the future

- Extend our activities to our main stakeholders
 - Respond to client expectations and put forward innovative solutions
 - Enlist our personnel, suppliers, and subcontractors in our approach
- Respond to the requirements of the Global Compact, of which VINCI is a signatory
- Measure our progress as part of a continuous improvement approach

Monitoring client satisfaction

Client satisfaction audits are carried out every couple year to monitor our clients' evolving needs and views. Our audits, which cover 26 specific areas from design to delivery, are meticulously analyzed, enabling us to respond to client needs more effectively.



BREEAM Certification

EIB building in Luxembourg

The certification method used by the Building Research Establishment Environmental Assessment Mechanism (BREEAM), a public agency in England, consists in evaluating a building's environmental qualities using a certain number of criteria. The EIB building met the most stringent environmental protection standards, making it the first building in continental Europe and one of the first in the world to be awarded BREEAM certification with a mark of "Very Good."



AFAQ 1000 NR® evaluation

In October 2008, VINCI Construction Grands Projets was evaluated in accordance with AFAQ 1000 NR®, which assesses how well a company has adopted and implemented sustainable development principles (environmental protection and civic involvement). On the four-level rating scale (Commitment, Progress, Maturity, Benchmark), VINCI Construction Grands Projets reached, in its initial evaluation, second place on the podium: the Maturity stage.

