

## REFERENCES

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## 1. Strategic guidance of enterprises (energy, transport, distribution, services)

### ***CARREFOUR Group (Belgium)***

Guidance to defining an integrated carbon strategy at group level : diffusion of a carbon culture internally, at suppliers and at clients / elaboration of a corporate GHG emissions reduction action plan. 2010

### ***London 2012 Olympics Games (Great-Britain)***

Implementation of the climate strategy for the London 2012 Olympic Games: definition of the scope, working methodology in project mode, sources to be considered, conception of the reporting system of emissions and reduction indicators, creation of specific tools. 2007

### ***Electrabel/SUEZ (Belgium)***

Strategic guidance toward the implementation of a sustainable development plan focused on climate change actions. Evaluation of the financial and environmental impacts of various actions conducted internally, modification of the vision, set up of an external and internal strategic and communication plan. 2007-2008

### ***Eurotunnel (France, Great-Britain)***

Strategic guidance of the Sustainable Development Management on a full set of topics (climate plan, renewable energy, protection of biodiversity, regulatory compliance...). 2008.

### ***TOTAL Petrochemicals (Belgium)***

Support to the definition and implementation of a positive economy project development in Qatar. "Zero Carbon, Zero Waste, Zero Resource". 2009

### ***SECURITAS Group (Belgium)***

Assistance to the implementation of actions for a sustainable development and for the reduction of their climate and environmental footprint. 2009

### ***ENECO Belgium BV/SA***

Report on the constraints and opportunities of renewable energy sources and on the implementation of the European Telecommunication Standard in the Walloon Region in the framework of an investment project of a HST-plant with a capacity of 800 MW electric.

### ***ProMis© Bical Belux (Belgium)***

Guidance toward the development of beneficial re-use sectors for second generation ligno-cellulosic biomass in sustainable building and thermal energy. 2007

### ***Start-up énergie renouvelables (Belgium)***

Support to the financing and industrial partner matching for the development of a hydrogen production chain through water hydrolysis, the required energy being 100% self-produced and renewable. 2007-2008

### ***Cogengreen SA (Belgium)***

Administrator and counsellor to define the strategic positioning of the company, to re-launch innovation processes and to develop new markets. 2007-2008

### ***Cristalux Belgium S.A. (Belgium)***

Sustainable development co-ordination. Implementation of the climate strategy, certifications and communication. 2007

### ***Carrefour Belgium***

Development of a reference framework for the calculation of the carbon footprint of own-brand products, and for the information of consumers aiming at initiating a low carbon and user-friendly consumption path. 2010-2011

***Communauté d'Agglomération d'Angers (France)***

Comparative analysis of the energetic beneficial re-use of biogas produced by municipal solid waste in a bio-methanization unit: electrical production, co-generation, heat network and fuels. 2007

***Electrabel (Belgium)***

Analysis of economic and environmental aspects (CO<sub>2</sub> and energy) of the replacement of a company car fleet by hybrid and/or electrical vehicles. 2006

## **2. Climate footprint – Carbon footprint - Climate-Energy Plan– Agenda 21 for private and public enterprises**

***A large amusement park near Paris***

Comprehensive carbon footprint (Bilan Carbone®) of the direct and indirect activities of two amusement parks and the related hotels, restaurants, cafés and side activities. 2010

***London 2012 Olympics Games (Great-Britain)***

Calculation of the greenhouse gas emissions of the reference scenario for all operations related to the preparation and conduct of the Games. 2007

***Eurotunnel (France, Great-Britain)***

Carbon footprint (Bilan Carbone®) of the activities conducted on the British site and aggregation with the French footprint. Competitive positioning strategy of Eurotunnel vis-à-vis other transportation companies in respect of carbon stakes. Benchmarking of trans-channel transport between train, ferry and aviation. 2007

***MEDAD (Ministère de l'Ecologie du Développement et de l'Aménagement Durable, France)***

Carbon footprint (Bilan Carbone®) of the activities of the Central Administration of the Ministry. 11 sites distributed over Paris. Multi-sites utilities usage. Creation of specific management tools for greenhouse gas emissions reduction. 2007-2008

***Pierre & Vacances Group (France)***

Carbon footprint (Bilan Carbone®) of Pierre & Vacances travel group. Conduct of an audit of 4 representative sites and of an extrapolation study to the whole set of sites from the Group. Creation of specific tools. 2008

***Thalys International (Belgium, France, Germany, the Netherlands)***

Carbon footprint (Bilan Carbone®) of Thalys activities in Belgium, France, Germany and the Netherlands. Split between the respective impacts of sales, clients, rolling stock, traction et infrastructures. 2009

***Brussels South Charleroi Airport (Belgium)***

Carbon footprint (Bilan Carbone®) of the airport and the whole set of destinations (line by line), as well as the economic benefits generated by the airport. 2009

***INRA National Institute for Agronomic Research (France)***

Carbon footprint (Bilan Carbone®) of 15 test sites of the French INRA, spread over the territory, and definition of an expansion strategy of the diagnose to all French sites. 2009

***FLO Group (France)***

Carbon footprint (Bilan Carbone®) of 4 test sites from the catering group FLO (Hippotamus, Bistrot Romain, Table à pizza, ...) spread over the French territory, and definition of an expansion strategy of the diagnose to all French sites. 2009

***Expanscience® Laboratoires (France)***

Carbon footprint (Bilan Carbone®) of the activities of Expanscience® group (producer of Mustela® skincare, active in pharmacy, nutraceuticals and cosmetics), and worldwide strategy of emissions reduction. 2009

***Promod (France)***

Carbon footprint (Bilan Carbone®) of PROMOD group, including the 750 retail outlets distributed over the world, and action plan to reduce GHG emissions. 2009

***AREBS (Belgium)***

Carbon footprint (Bilan Carbone®) of 300 enterprises of Seraing Township, in the framework of an urban redeployment project led by Seraing Agency for Economic Redeployment. Territorial action plan. 2009-2010

***Arjo Wiggins (France)***

Setting up of a de-carbonation plan of GHG emissions of the French subsidiary of the paper industry group Arjo Wiggins in accordance with the objectives of the Climate Savers programme from the WWF. 2010

***Coopénergie (France)***

Collective action to conduct carbon footprint (Bilan Carbone®) of 20 collective farms of various sizes and types in the North of France. 2010

***CRCI Nord-Pas de Calais (France)***

Carbon footprint (Bilan Carbone®) of equipment granted by the Chamber of Commerce and Industries on the direct and indirect scopes. 2010

***Ports of Lille, including enterprises housed in the Ports***

Lille-Lesquin Airport, including flights from airline companies  
Port of Boulogne-sur-Mer, including enterprises housed in the Port  
Merville Airfield  
Artois-Expo including economic benefits of the proposed events

***Port of Antwerp (Belgium)***

Carbon footprint (Bilan Carbone®) of the direct and indirect activities of the Port of Antwerp, taking into account international sea transport and emissions from all economic activities that take place on the port location. 2010

***Brussels Opera house La Monnaie – De Munt (Belgium)***

Guidance to the execution of a carbon footprint diagnosis, the definition and implementation of a de-carbonation plan of its activities. 2010

***Véolia Propreté (France)***

Comparative estimate of GHG emissions of various transport modes and industrial waste treatment types. 2008

***MAIF (France)***

Carbon footprint (Bilan Carbone®) of a commercial event in Tunisia. 2008

***Hôtel Les Tourelles (France)***

Carbon footprint (Bilan Carbone® Entreprise V4) of the hotel services of this Somme establishment. 2008

***SAMACA Pizarras (Spain)***

Carbon footprint (Bilan Carbone®) of 100m<sup>2</sup> of natural slate roofing (product footprint extrapolated from the enterprise footprint). Comparison with 4 other roofing products (fiber cement tiles, terracotta tiles, zinc roofing). 2008

***Café Liégeois (Belgium)***

Environmental analysis (pre-ISO 14001 and EMAS certification) and carbon footprint (Bilan Carbone®) of the group's activities (beans roasting, transport & distribution, utilization of coffee and accessories). 2008-2009

***Ragnies Golf Club (Belgium)***

Carbon footprint as adapted Bilan Carbone® Enterprise V4 (design of a specific project mode tool for the construction and operational phases) and implementation of a GHG emissions reduction strategy with economic beneficial re-use of carbon. Transformation of the Clubhouse into a carbon sink.

***BESIX SA & Syntaxe Architecte (Belgium)***

Constructive optimization of a 5.000 m<sup>2</sup> office building in Namur. Execution of an adapted carbon footprint (Bilan Carbone® with design of a specific tool), search for optimization in collaboration with the architectural bureau, reduction of the global emissions (construction, usage and transport) of 50% with respect to the initial proposal, while remaining within the boundaries of the building permits. 2007

***YULUKA, responsible communication agency (Belgium)***

Carbon footprint (Bilan Carbone®) of the preparation, publishing and distribution of the 2008 inclusive Brussels guide «Guide Bruxelles Solidaire 2008». Calculation of the emissions averted by the acquisition of products and services promoted by the guide. 2008

***Cogensud asbl and ICEDD asbl (Belgium)***

Carbon footprint (Bilan Carbone®) of the seminar on combined heat and power « La Cogénération : facilitez son essor », organized on Dec. 18, 2008 in Namur. Evaluation of the carbon benefits generated by the environmental policy of the organizers (recycled paper, travel plan for visitors, incentives for public transportation usage, organic agriculture meals etc). 2008

***Decroly School (Belgium)***

Multi-site carbon footprint (Bilan Carbone® Enterprise V4) and transportation plan for this 1200 pupils school (from kindergarten to advanced level). 2008-2009

***Electrabel Customer Solutions (Belgium)***

Carbon footprint (Bilan Carbone® Enterprise V4) of the head office of a division of an energy company in Belgium. 2006-2007

***Hainaut Développement (Belgium)***

Carbon footprint (Bilan Carbone®) and carbon balance of the organization of a one-day conference on climate change topics for managers of companies from Hainaut province. 2010

***Alstom (France)***

Carbon footprint (Bilan Carbone® V6) site and product approach. 2010

***Brussels urban public transport company STIB-MIVB (Belgium)***

Guidance, control and certification of green building, audit of consumptions before and after the renovation works, carbon footprint (Bilan Carbone®) before and after the renovation works of the underground station De Brouckère. 2011

***Brussels urban public transport company STIB-MIVB (Belgium)***

In the framework of European INTERREG Ticket to Kyoto project (+ lien vers <http://www.tickettokyoto.eu/node/54>), Factor-X guides the largest Belgian urban public transport company (STIB-MIVB) in conducting the carbon footprint analysis of its activities. 2011

### **3. Carbon footprint (Bilan Carbone®) – Climate plans – Citizen diagnosis for communities**

***Kingdom of Belgium***

Territorial carbon footprint (Bilan Carbone® Territoire) of Belgium and adaptation of the method in order to integrate the impact of GHG emitted by goods consumed on the Territory (regardless of where they have been produced). The modified carbon footprint is 10 times higher than the national register of GHG emissions, and the consumption of manufactured goods represents in itself more than 50% of the emissions of the Territory. 2008

**Charleroi City (Belgium)**

Carbon footprint for communities and for the territory (Bilan Carbone® Collectivité Patrimoine&Services et Territoire) and territorial climate plan. The objective is to transform Charleroi into the Walloon attractiveness centre for low carbon activities by 2020. Thirty conferences for raising awareness of various stakeholders in order to share the approach with the Territory's players. Use of the multi-sites tool for the 500 building properties of the Territory. 2008

**Commune d'Uccle (Belgium)**

Carbon footprint for communities and for the territory (Bilan Carbone® Collectivité Patrimoine&Services et Territoire). Coordination with Agenda 21 approach. Set up of a Territorial Climate Plan, of indicators and dashboards. Use of the multi-sites tool for the building properties of the Territory. 2008

**Communauté d'Agglomération de Rouen (France)**

Carbon footprint for communities and for the territory (Bilan Carbone® Collectivité Patrimoine & Services et Territoire) for the township committee of Rouen. Use of the multi-sites tool for the 40 building properties of the Territory. 2007-2008

**Nord-Pas de Calais Region (France)**

Carbon footprint for communities and for the territory (Bilan Carbone® Collectivité Patrimoine&Services et Territoire) with specific extractions : analysis of the train transportation emissions and of the emissions of 200 secondary schools managed by the Region. Use of the multi-sites tool for the schools and building properties of the Territory. Creation of specific tools for the energy management of the schools. 2007-2008

**Communauté d'Agglomération d'Angers, City of Angers and 30 Communes (France)**

32 carbon footprint for communities and for the territory (Bilan Carbone® Collectivité Patrimoine&Services et Territoire) for the township committee of Angers, the city of Angers and the 31 communes located on the Territory. Use of the multi-sites tool for the building properties of the township and the city of Angers. Transformation of the tool so that each Commune is listed as "site" in the multi-sites tool. 2007-2008

**Lille Métropole Communauté Urbaine - LMCU (France)**

Carbon footprint for communities and for the territory (Bilan Carbone® Collectivité Patrimoine&Services et Territoire) of the urban township of the City of Lille and preliminary climate plan (detailed evaluation of reduction actions). Use of the multi-sites tool. 2008

**Conseil Général de Charente Maritime (France)**

Carbon footprint (Bilan Carbone® Patrimoine&Services) of the General Council of Charente Maritime. Carbon footprint of the construction and operation of the new tramway line, carbon footprint of 58 secondary schools. 2008-2009

**City of Bègles (France)**

Local Agenda 21 and Territorial Climate Plan. 2008-2009

**City of Mérignac (France)**

Carbon footprint for communities (Bilan Carbone® Patrimoine&Services) of the city. 2008-2009

**Communauté d'Agglomération de Rouen (France)**

Preparation of the Climate Plan of the Township Committee of Rouen: dissemination of results for the carbon footprint toward the Territory's players, support of groups working on thematic strategic thinking to identify solutions to be implemented. 2009

**City of Carquefou (France)**

Carbon footprint for communities (Bilan Carbone® Patrimoine&Services) of the city. 2008-2009

**City of Saint-Malo (France)**

Carbon footprint for communities (Bilan Carbone® Patrimoine&Services) of the city. 2009

**Metz Métropole (France)**

Carbon footprint for communities (Bilan Carbone® Collectivité Patrimoine&Services) of the township committee of Metz, the city of Metz and the volunteer Communes. Carbon footprint of the Territory (Bilan Carbone®) and Territorial Climate Plan. 2009-2010

**Commune of Saint-Gilles (Belgium)**

Carbon footprint for communities and for the territory (Bilan Carbone® Collectivité Patrimoine&Services et Territoire) of the Commune of Saint-Gilles in Brussels. Use of the multi-sites tool for the building properties of the Commune. 2009-2010

**Ville et Agglomération de Dieppe (France)**

Carbon footprint for communities and for the territory (Bilan Carbone® Collectivité Patrimoine&Services et Territoire) of the city and the township committee. Use of the multi-sites tool for the building properties. 2009-2010

**City of Brasov (Romania)**

Carbon footprint for territories (Bilan Carbone® Territoire) and Territorial Climate Plan. 2009-2010

**Nord-Pas de Calais Region (France)**

Assistance to the definition and implementation of an action plan in the framework of the Territorial Climate Plan. Stakeholders participative guidance, design of a quantified action plan and follow-up of the implementation of 5 top priority actions. 2009-2010

**Nantes Métropole (France)**

Concept, participative guidance and follow-up of 150 households measuring their carbon footprint during a period of 18 months, and active support to seminars on the reduction of their direct and indirect GHG emissions. Socio-economic analysis and recommendations to extend the approach to the whole city. 2010-2011

**Parc Naturel Régional de Scarpe-Escaut (France)**

Carbon footprint for territories (Bilan Carbone® Territoire) of the regional natural park and adaptation strategy to climate change. Evaluation of the carbon sink potential. 2010

**Communauté de Communes Val de Sarthe (France)**

Carbon footprint for communities and for the territory (Bilan Carbone® Collectivité Patrimoine&Services et Territoire) of the Communication cell and of all Communes. 2010

**Walloon Region et Inter-Environnement Wallonie (Belgium)**

Guidance of 20 households in the calculation and reduction of their global carbon footprint: at home, transport, leisure, consumption, work and financial investments, in the framework of Exit-CO2.be challenge. 2010

**Conseil Régional de Picardie (France)**

Guidance to the elaboration of the Climate Plan of the Region.

**Baie de Somme (France)**

Elaboration of an action plan to deduce GHG emissions, communities related aspects (Patrimoine&Services). 2010-2011

**Office for the Promotion of Tourism Wallonia-Brussels (Belgium)**

Analysis of various transportation modes available today from France to Brussels, based on a series of indicators including environmental criteria. The aim of the study is to build new combined offers for "Low Carbon Brussels" travel. 2011

## 4. Carbon impact of real estate, urban and industrial projects – Carbon footprint of districts

### **DUFERCO Group– Duferco diversifications**

Carbon footprint and GHG emissions reduction strategy for the rehabilitation of an old coke-oven plant located on a 84 ha site into a green district with industrial tertiary and residential functions. 2010

### **ADEME**

Evaluation of energy efficiency policies in France in the context of the 2016 European Directive. 2009-2010

### **Hein Group**

Carbon footprint (Bilan Carbone®) of the construction and operation of a tertiary and office building of 6700 m<sup>2</sup> in the centre of Luxemburg. 2010

### **Certu, MEEDDAT and ADEME**

Guidance of the French Centre for Studies of Networks, Transports, Urban planning and public buildings (Certu) and the Centre for Technical Studies of Equipment (CETE) for the design of GHG emissions evaluation tools for local urban plans (PLU), territorial coherence schemes (SCOT) and urban projects. 2009

### **ANRU and Caisse des Dépôts et Consignations**

Definition, conception and training of employees to an evaluation tool of the carbon impact of urban rehabilitation projects of ANRU, based on ADEME's Bilan Carbone® methodology. Testing of the tool on 5 projects (realized or under development). Development of specific tools. 2008

### **Brussels Institute for the Environment (IBGE-BIM)**

Study to adapt Bilan Carbone® methodology and to integrate the Bilan Carbone® tool in impact assessment studies in the context of land allotment plans (PPAS) for sustainable districts development projects. Development of specific tools. 2008

### **DDEA of Aube Department, DRE of Champagne-Ardenne Region**

For a Departmental Direction of Equipment and Agriculture (DDEA) of Aube and a Regional Direction of Equipment (DRE), definition, conception and training of employees to an evaluation tool of the carbon impact of territorial spatial planning operations, based on ADEME's Bilan Carbone® methodology. Development of specific tools. 2008

### **Pierre & Vacances Group**

Carbon footprint (Bilan Carbone®) of the renovation of a MAEVA tourism house in a mountain resort (Avoiaz). 2008.

### **Conseil Général de Charente Maritime**

Carbon footprint (Bilan Carbone®) in project mode for the construction and yearly operation of the new tramway line. Quantification of various scenarios of traffic deferral, recommendations on urban mobility in order to reduce the impact of this project. 2008-09

### **Nord-Pas de Calais Region**

Carbon footprint (Bilan Carbone®) of the infrastructure and yearly operation of regional express transportation (TER trains). Comparison of the carbon efficiency with cars, strategic proposals for the development of a "low carbon" TER service. Quantification. 2008.

### **London 2012 Olympic Games (Great Britain)**

Calculation of the GHG emissions for the Olympic site's planning : dismantling of the existing, installation of networks and roads, construction of the stadiums, Olympic Village and tertiary buildings for the press centre and offices. 2007

### **Syntaxe Architecte and Besix SA (Belgium)**



Constructive optimization of a 5.000 m<sup>2</sup> office building in Namur. Execution of an adapted carbon footprint (Bilan Carbone® with design of a specific tool), search for optimization in collaboration with the architectural bureau, reduction of the global emissions (construction, usage and transport) of 50% with respect to the initial proposal, while remaining within the boundaries of the building permits. 2007

***Tramway of Angers Loire Métropole***

Carbon footprint (Bilan Carbone®) of the construction of the infrastructures and the maintenance centre, and carbon footprint of the yearly operation. Calculation of avoided emissions thanks to modal deferral, strategic proposals for the reduction of emissions during the construction phase. 2009

***Communauté d'Agglomération d'Angers***

Comparative analysis of the financial, energetic and climatic consequences of the construction of 25.000 dwellings in function of various energy building standards, types of dwellings (apartment of different block sizes or individual houses) and choices of construction materials. 2007

***SAMACA Pizarras (Spain)***

Carbon footprint (Bilan Carbone®) of 100m<sup>2</sup> of natural slate roofing (product footprint extrapolated from the enterprise footprint). Comparison with 4 other roofing products (fiber cement tiles, terracotta tiles, zinc roofing). 2008-2009

***G.I.E Walchanvre & Ministry of Economy of the Walloon Region (Belgium)***

Carbon footprint (Bilan Carbone®) of agro-sourced materials (hemp, Miscanthus..) from agricultural production to transformation into construction materials for buildings. Proposals of economic incentive systems in order to stimulate this sector in Wallonia.

## **5. Trainings, Conferences, Communication**

***Agence de l'Environnement et de la Maîtrise de l'Energie (ADEME)***

Conduct professional training sessions on carbon footprint methodology (Bilan Carbone® Collectivités and Entreprises. Since 2008

***Association Progrès du Management (APM)***

Conduct professional training sessions with focus on carbon footprint methodology (Bilan Carbone®) and carbon strategy for entrepreneurs and managers. Use of the method and analysis of case studies. Recurring since 2008

***Solvay Business School – Université Libre de Bruxelles (Belgium)***

Development of a professional training module on « Low carbon sports management » targeting the main sport world stakeholders (infrastructure managers, equipment suppliers, media, sponsors...). 2009

***Brussels Institute for the Environment (IBGE-BIM)***

Training of employees to the carbon footprint methodology (Bilan Carbone®) in order to evaluate GHG emissions. 2009

***Unither Pharmaceuticals***

Training for shareholders on challenges associated with climate change and key actions to be undertaken personally and in the business world.

***CERTU/MEEDDAT***

Training of employees from the French Centre for Studies of Networks, Transports, Urban planning and public buildings (Certu) and the Centre for Technical Studies of Equipment (CETE) to the use of carbon footprint evaluation tools developed by Factor-X for DDE and DDEA's (Departmental Direction of Equipment and Agriculture). 4 training days in 2009

***DDE/DDEA of Champagne-Ardenne Region***

Training of employees from the DDE, DDA and DDEA of Champagne-Ardenne Region to the use of carbon footprint tools developed by Factor-X for urban planning applications. 3 training modules (10 days) in 2008-2009

***Electrabel/SUEZ***

Development of a communication module on the causes and consequences of climate change, as well as raising awareness on the reduction of GHG emissions.

***EnergyWatchers ASBL***

Use of emission factors from the carbon footprint (Bilan Carbone®) to develop a simulation module of total individual emissions (energy, transport, shopping, waste, food, leisure). 2006-2007

More than a hundred conferences on climate change for various audiences since 2003.

A few titles :

- Energy & Climate: a Problem?
- Climate Change and Energy Shortage: which Alternatives?
- Levers for an Efficient Climate Action Policy
- 100 Efficient Actions to Reduce GHG Emissions
- Bilan Carbone® and Corporate Strategy
- Bilan Carbone® and Territorial Planning
- Green (R)evolution : Where are Expansion Relays for the Economy?
- The green enterprise of tomorrow is yours!