

City Name	Kitakyushu City, Japan
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<Action Plan>

Name of action plan 1	Eco-Model City Action Plan of Kita Kyushu City
Brief summary of the action plan	It aims to create a low carbon society on the basis of citizens' environmental power and under the guiding principles of realizing a stock-based society.

<Mitigation Action/Project>

Name of mitigation action/project 1	Kitakyushu City Eco-Industrial Complex Project
Brief summary of the action	<p>NIPPON COKE & ENGINEERING. CO., LTD. has equipped two coke ovens with CDQ(coke dry quenching) units, which utilize the recovered heat of red-hot coke arising from coke ovens for power generation, by extinguishing red-hot coke using circulating gas instead of conventional water.</p> <p>The installation of the new facility enabled reduction CO2 emissions by 50 000 tons per year. Implementer : NIPPON COKE & ENGINEERING. CO., LTD. Project Overview: Installation of CDQ units in two coke ovens. Full-scale operation since April 2011 CO2 emission reduction: circa 50 000 tons/year.</p>
Key lessons	-

Name of mitigation action/project 2	Residential Solar Power System Installation Subsidy Programme
Brief summary of the action	The programme aims to support installation of residential solar power system by subsidies, in order to reduce greenhouse gas emissions in the residential sector.
Key lessons	The programme has been oversubscribed every year since its start. It suggests that citizens of Kita Kyushu City are very

	interested in installation of solar power system. The municipal administration therefore plans to continue the programme.
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Name of mitigation action/project 3	Project for "CASBEE Kita Kyushu" Promotion
Brief summary of the action	<p>"CASBEE Kita Kyushu" is an assessment tool which was specifically developed for Kita Kyushu City considering its regional characteristics, based on the nationwide CASBEE (Comprehensive Assessment System for Building Environmental Efficiency).</p> <p>This project aims to promote construction and renovation of environment-friendly buildings making full use of the "CASBEE Kita Kyushu". It focuses on both city- and private-owned, large- as well as small-scaled buildings and supports efforts to protect environment and make the city sustainable.</p> <ul style="list-style-type: none"> - Subject to notification: New construction, renovation or extension of a building with total space of more than 2000 m². - Start of the notification system: October 2008 (in full scale). - Number of notification: 54 Buildings (2007-2010).
Key lessons	As a further task, the city is considering introducing incentives for building owners and a mandatory notification system by a municipal ordinance. The city continues to promote the utilization of the "CASBEE Kita Kyushu", in order to encourage environment-friendly construction, focusing on both city- and private-owned buildings.

Name of mitigation action/project 4	Biofuel Promotion Project
Brief summary of the action	<p>It aims to produce BDF(Biodiesel fuel) from collected waste cooking oil from private households and the food-service industry in Kita Kyushu City and to use it for vehicles.</p> <p>There are 50 collection points set up at civic centers or shops throughout the city for collecting waste cooking oil from private households.</p> <p>BDF produced from cooking oil is utilized as fuel of 3</p>

	city buses and 17 garbage trucks. BDF is also supplied to five enterprises in Kita Kyushu City (as at April 1, 2011).
Key lessons	The challenge of this project is procuring waste cooking oil for production of BDF. The city administration therefore needs to work on spreading more information about the project among citizens.

Name of mitigation action/project 5	LED Lighting Promotion Project
Brief summary of the action	<p>It aims to encourage enterprises as well as city-owned facilities to introduce LED lighting in order to reduce greenhouse gas emissions.</p> <p>As one of first municipalities in Japan, Kita Kyushu City replaced the street lighting bulbs, a public facility familiar to citizens, by LED lamps. It is also working on extending efforts to realize a low-carbon society by facilitating technology and market development. Furthermore, it is planned to replace all of security lighting lamps(crime-prevention lamps) by LED.</p>
Key lessons	The project offers a support system for enterprises to reduce the burden of initial investment due to introduction of LED Lighting.

Name of mitigation action/project 6	Kita Kyushu Smart Community Creation Project
Brief summary of the action	<p>In April 2010, Kita Kyushu City was selected as one of the municipalities to implement the demonstration of a next-generation energy and social system by the national government. In August 2010, the masterplan for this project was developed and the project was started by the participating companies and organizations.</p> <p>This project with emphasis on the next-generation electric power system (smart grid), is aimed at bringing about changes in urban development and planning as a whole, including a next-generation transportation system as well as</p>

	<p>life and business style.</p> <ul style="list-style-type: none"> -Implementation body: Kitakyushu Smart Community Council -Implementation district: Higashida district : Yahata-Higashi ward (approximately 120 ha). -CO2-reduction goal: reduction by 50% by fiscal year 2014: compared to other average areas in the city in 2005. -Number of demonstrations: 38 projects -Project profile: <ul style="list-style-type: none"> • Maintenance of block imposed with a new-energy consumption rate of 10% • Introduction of energy-saving systems to buildings • Construction of a regional energy management system based on a regional power-saving station • Construction of an ideal next-generation local social structure • Transmission of information to overseas areas, such as Asian countries.
Key lessons	<p>The Equipments and systems developed in the project are utilized for houses and commercial facilities in the Higashida district, with a goal of CO2-reduction by more than 50% compared to other average areas in the city. The results achieved by this demonstration project will be applied to other areas, for example "advanced zero-carbon block" in Jono area.</p> <p>The results produced in this demonstration project will be transferred abroad through "Kitakyushu Asian Center for Low-carbon Society" on a business basis.</p>

Name of mitigation action/project 7	Kita Kyushu Environment Passport Project
Brief summary of the action	<p>This project is aimed at reducing oil consumption to produce plastic shopping bags and CO2 emissions by encouraging citizens participation in environmental protection activities, in which citizens, NPOs and the city administration work together with hand by hand. When shoppers decline a plastic shopping bag, they are awarded a sticker with points. At 20 points, the stickers can be exchanged for a 50-yen discount coupon, which can be used at participating stores.</p>

	<p>This eco-point system is unique to Kita Kyushu City and intended to make citizens aware of eco-friendly behavior in their daily lives.</p>
Key lessons	<p>The stickers are given out in nearly 300 stores in the city.</p> <p>The point system is widely known among residents of the city and attracting customers to the participating stores.</p> <p>In four years since the project launch, a reduction of approximately 75.7 millions of shopping bags has been achieved. It corresponds to a reduction of approximately 45.4 million tons of CO2 emissions.</p> <p>Although the project was originally planned to finish by the end of March 2011, the city decided to extend it another year, because of its popularity.</p> <p>The ratio of shoppers declining a plastic bag was less than 10% on the initial phase of the project.</p> <p>It reached nearly the target ratio of 20% by December 2010 and has been keeping the level since then.</p>

<Adaptation Action/Project>

Name of adaptation action/project 1	-
Brief summary of the action	-
Key lessons	-