Saga Prefecture's EV/PHV Town Program Based on a "24-hour EV Ubiquitous Network"



February 7th, 2013 New Energy Division Agriculture, Forestry, Fisheries & Commerce Head Office Saga Prefecture



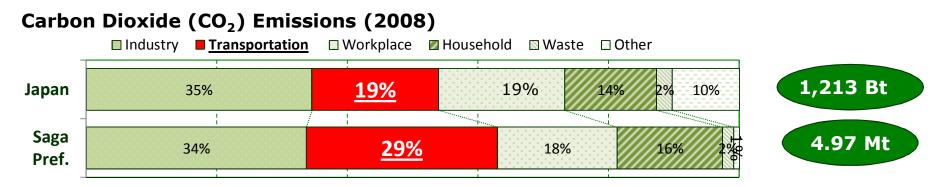
About Saga Prefecture



Saga Prefecture is located in the Northwestern part of Kyushu. To the East is Fukuoka Prefecture, Nagasaki Prefecture is to the West, North lies the Genkai-nada Sea and to the South lies the Ariake Sea. In comparison to the 900 km to Tokyo and the 500 km to Osaka, it is only 200 km away from South Korea. Saga Prefecture played an important role both historically and culturally as a window into continental culture.

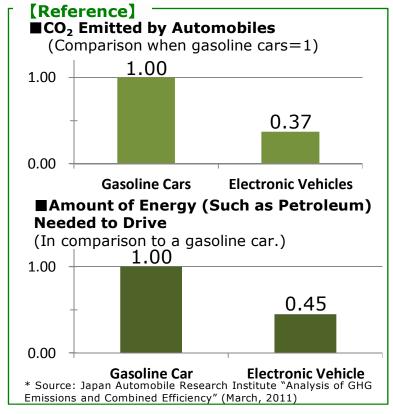
Area: Approx. 2,400 km²
(1% of total national area)
Population: 843,302 people
(as of October, 2012)
Households: 300,134 households
Total Vehicles Owned: 661,953 vehicles

🐜 Greenhouse Gas Emissions in Saga and EV/PHV

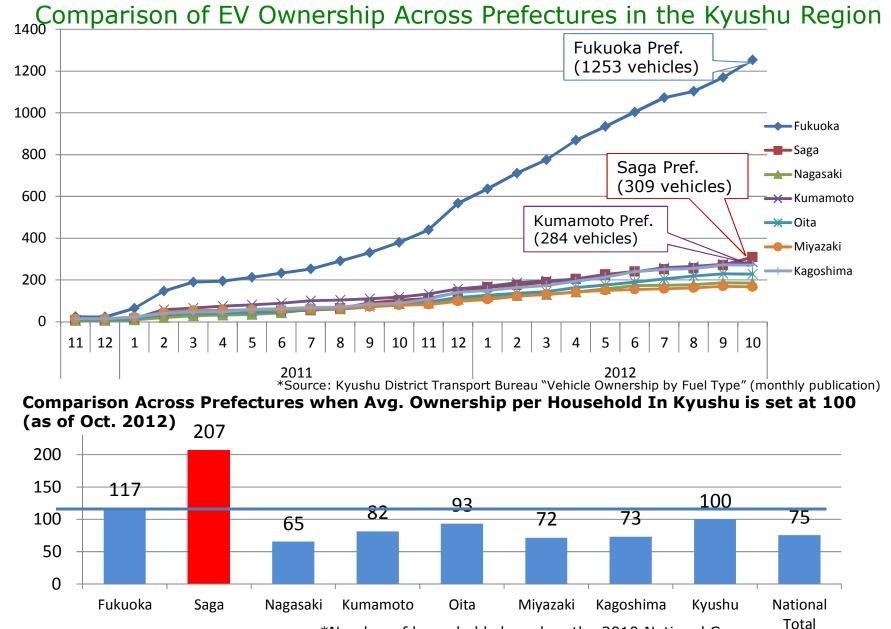


Transportation accounts for 29% of all CO₂ emissions in Saga Prefecture

Our goal is to significantly reduce greenhouse gas emissions. In addition to preventing global warming through the promotion of EV/PHV, we aim to revitalize the region by actively working with related industries.



EV Ownership in the Kyushu Region



Real Comparison of EV Ownership

Top 5 Prefectures in EV Ownership (Proportionally)

As of Sept. 2012

	Ratio to Total Vehicle Ownership (per 10000 vehicles)	Ratio to Population (per 10000 people)	Ratio to Households (per 10000 Households)
No. 1	Kanagawa (9.4)	Saga (4.6)	Saga (12.4)
No. 2	Saga (6.1)	Okayama (3.9)	Okayama (9.6)
No. 3	Tokyo (6.0)	Kanagawa (3.8)	Gunma (8.9)
No. 4	Okayama (5.2)	Gunma (3.5)	Kanagawa (8.6)
No. 5	Kyoto (5.0)	Shizuoka (3.0)	Yamagata (8.3)

- Kanagawa 3,425 vehicles; Saga 391 vehicles; Tokyo 2,371 vehicles; Okayama 760 vehicles; Kyoto 624 vehicles; Gunma 696 vehicles; Shizuoka 1,134 vehicles, Yamagata 331 vehicles
- 2. PHV not included
- 3. Researched by Saga Prefecture

Saga Prefecture EV/PHV Timeline

November, 2009: EV (i-MiEV) is adopted for official use by **EV/PHV** Ownership Quota the prefecture **March, 2010:** PHV adopted for official use by the prefecture By 2014: 1,000 vehicles **December, 2010:** EV/PHV Town Program adopted February, 2011: 10 EVs (7 LEAFs, 3 i-MiEVs) purchased for official use **March, 2011:** Quick Charge (QC) stations installed at 7 FamilyMart locations **April, 2011:** Cooperative agreement signed between Saga Prefecture/Nissan Motor Co./FamilyMart May, 2011: Saga Prefecture EV/PHV Town logo produced **July, 2011:** Budget for EV/PHV Town Program approved by the Prefectural Assembly August, 2011: Subsidies for the purchase of EV/PHV, QC stations established **November, 2011:** Saga Prefecture Comprehensive Plan 2011 adopted; EV/PHV ownership quota set at 1000 vehicles (2014) October, 2011: 10,000-person test drive event conducted **October, 2011:** Lightweight truck EV conversion February, 2012: Weekend rental service, EV/PHV support shops, citizenship supporters project March, 2012: QC stations installed at 4 main train stations

Manifesto (April, 2011)

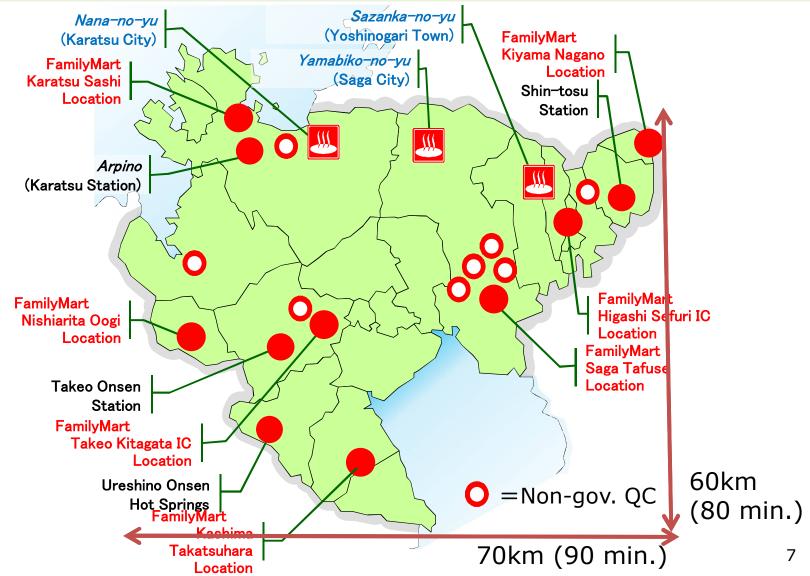
We will strive for the proliferation of electronic vehicles (EV) and fuel cell vehicles (FCV) by bringing together related industries. Alongside household solar power generation, we will work towards the goal of becoming number one in the country for EV ownership.

<Saga Prefecture Comprehensive Plan 2011 Priority Item> Promotion of electronic vehicle (EV) and fuel cell vehicle (FCV) ownership through effective collaboration with related industries

🐏 24-hour EV Ubiquitous Network

About the "24-hour EV Ubiquitous Network"

In Saga Prefecture, we aim to promote the ownership of EV by installing charging stations throughout the prefecture. The "24-hour EV Ubiquitous Network" made up of charging stations that may be used "anytime, anywhere, by anyone" will allow drivers to travel without worry of running out of battery.



Cooperative Agreement Signed between Saga Prefecture, Nissan Motor Co., Ltd. and FamilyMart Co. Ltd.

Date: April 20th, 2011 Place: Saga Castle History Museum



- Items related to the promotion of a "24-hour EV Ubiquitous Network" (Creation of an environment in which anyone can charge anytime, anywhere.)
- 2. Other items which relate to the effective promotion of EV/PHV ownership and use in Saga Prefecture

Saga Pref.	FamilyMart	Nissan Motor Co.
 Installation of Quick Charge (QC) stations 	 Consent to the installation of Quick Charge (QC) stations on store premises free of charge Cooperation in QC operations 	 Supply QC at low cost Provision of information and advice on installation and maintenance of QC
 Management support 	 Manage payment operations Regular management of QC and provision of verified data on changes in the number of users, etc. 	 Consider operation tests of payment systems, availability systems, reservation systems, etc.

Projects Related to EV/PHV

Saga Prefecture's EV/PHV Town Program Based on a "24-hour EV Ubiquitous Network"

We will promote ownership of EV/PHV by installing charging stations throughout the prefecture. With the "24-hour EV Ubiquitous Network", charging stations that may be used "anytime (24-hrs), anywhere, by anyone" will allow drivers to travel without worry of running out of battory.

Installation of a "24-hour EV Ubiqitous Network" (QC Infrastructure)

- Installation of QC stations at 7 FamilyMart locations in the prefecture and 4 main stations
- Offer subsidies for the installation of QC/NC that anyone may use
- Call for "EV/PHV Support Shops" equipped with charging stations

Subsidies for General Consumers

Alongside providing a convenient driving environment, offer subsidies for general consumers such as taxi and rental car businesses in order to establish initial demand

10,000-person Test Drive Event

- Collaborate with CSOs (Civil Society Organizations) to hold EV/PHV test drive events
- Utilize electronic vehicles owned by the prefecture to operate a weekend car-rental service
- Recruit "Citizen Supporters" who will help advertise the benefits of EV/PHV

Conversion of Lightweight Trucks to EV

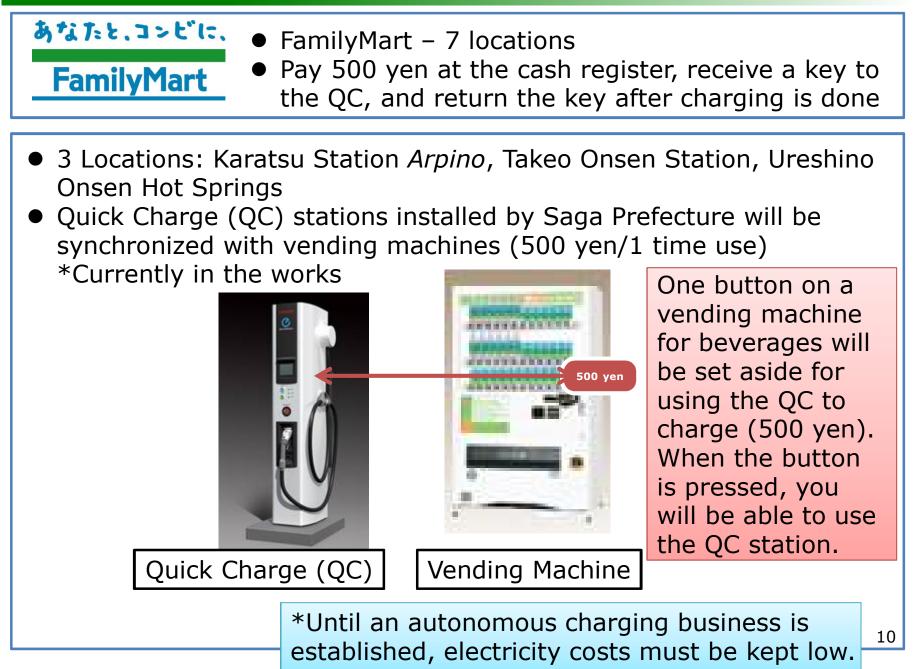
Explore the potentials of EV/PHV-related businesses and industries in the prefecture by working on the conversion of lightweight trucks, a necessity in rural areas, to EV

Taking the Lead at the Prefectural, City and Town Levels

■ Purchase 12 EV/PHV for official use by the prefecture, take the lead at city/town levels



Using Quick Charge (QC) Stations Installed by the Prefecture





For the Promotion of EV/PHV Ownership

