



## Recent status of designation, etc. by government

2008 (H20)	2009 (H21)	2010 (H22)	2011 (H23)	2012 (H24)	2013 (H25)	2014 (H26)	2015 (H27)
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### Environment

Challenge to reduce greenhouse effect gas (balancing the environment with vitalization of the industry & region)

Designated on January 23, 2009

**Environmental model city**  
(Fiscal 2009 - 2013)

### Traffic (ITS)

Realization of environmentally friendly traffic society utilizing ITS

Designated on April 8, 2010

**Next-generation energy and social system verification area**  
(Fiscal 2010 - 2014)

### Energy

Construction and overseas deployment of Japanese-version smart grid in the Strategy for Becoming an Environment and Energy Power through "Green Innovation" in the Growth Strategy

Designated in December 2011

**General special area for regional vitalization**  
<Special district for next-generation energy/mobility creation>  
(Fiscal 2011 - 2015)

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## Efforts for "Environmental model city"



### Traffic

- Realization of eco-friendly car life through smart use of car and road
- Construction of human- and environmentally-friendly public transportation system



**ハイブリッドシティ**  
環境モデル都市 とよた

### Industry

- Prevalence of environmental management by building the Toyota City Environmental Management Network
- Promotion of transition to sustainable plants

## Hybrid

[Target for CO<sub>2</sub> reduction]  
2030: 30% reduction  
2050: 50% reduction

### Forest

- Maximization of CO<sub>2</sub> absorption amount by strengthened thinning
- Promotion of use of regional lumber
- Educational activities to citizens and forest environmental education



### Residential

- Promoting widespread use of photovoltaic generation systems
- Energy saving of lighting/home electric appliances/architectural structures
- Improving environment-related knowledge and raising environmental awareness through visualization
- Cooperation structure with residents, etc. in each region

### Urban center

- Upgrading low-carbon society model districts
- Building urban center where "human" and "green" coexist




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**Efforts in traffic field (existing efforts)**

Toyota City Low-Carbon Society Verification Promotion Council

**■ Constructing whole-city bus network**



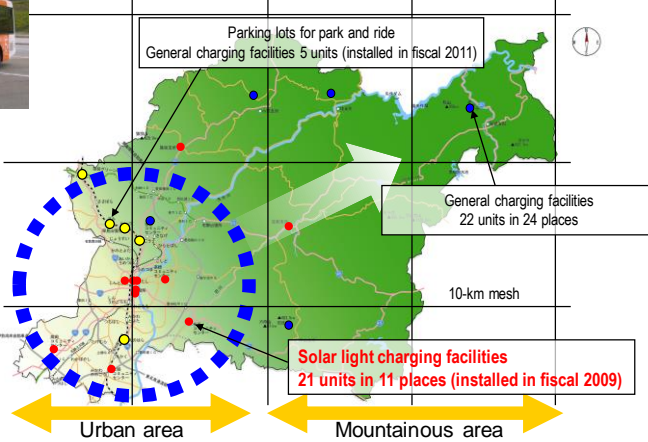
**Bus ridership in fiscal 2013:**  
**approx. 2.38 million**  
 Core bus: 2.12 million  
 Regional bus: 0.26 million



**Solar light charging equipment**

Subsidies for next-generation vehicle purchase (up to 150,000 yen for EV and PHV)  
 Subsidies for charging equipment installation (addition of 50,000 yen)

Charging network connecting public facilities (50 units)  
 Private fast/normal charging units (more than 82 units)




Parking lots for park and ride  
 General charging facilities 5 units (installed in fiscal 2011)

General charging facilities 22 units in 24 places

10-km mesh

Solar light charging facilities 21 units in 11 places (installed in fiscal 2009)

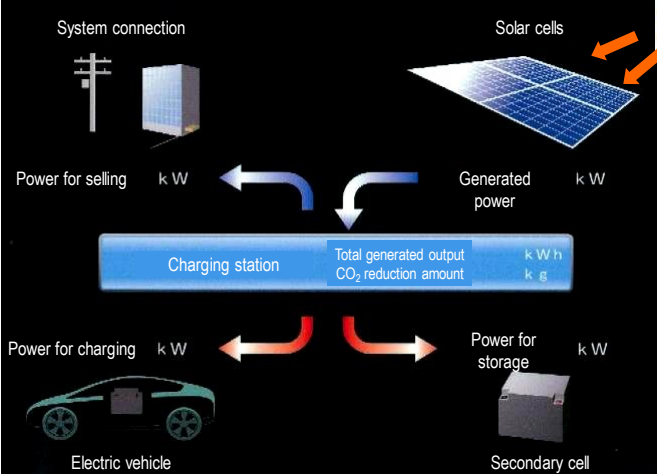
Urban area      Mountainous area

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**Efforts in traffic field (existing efforts)**

Toyota City Low-Carbon Society Verification Promotion Council

**Expansion of use of mechanism for driving vehicles by natural energy**



System connection

Solar cells

Power for selling kW

Generated power kW

Charging station

Total generated output kWh  
 CO<sub>2</sub> reduction amount kg

Power for charging kW


Power for storage kW

Electric vehicle

Secondary cell


**Charging at home**

- Storing power through photovoltaic panels during the day and charging a vehicle during nighttime
- Moving a vehicle through solar energy within a short distance



**Charging at a parking lot while away from home**

- Using the charging network of public facilities and supermarkets
- Since the vehicle has another power source, a driver feels safe even if a vehicle is running out of electricity.

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**Efforts in Residential Sector (Typical Example 1)**

豊田中核産業社会システム 実証推進協議会

■ financial Support for Eco Families

Up to 50,000 yen for HEMS

Up to 200,000 yen for Next Generation Vehicles (PHV, EV), including 50,000 yen for Charging Devices

Up to 90,000 yen for Fuel Cells "Ene Farm"

Up to 110,000 yen for Household Storage Batteries

Up to 84,000 yen for Solar Panels at Home

太陽光発電  
HEMS  
EV-PHV 充電器  
EV-PHV 充電設備  
スマートフォン  
電気自動車  
非常停電電システム  
エコキュート  
蓄電池

浴室リモコン  
倉庫リモコン  
燃料電池ユニット  
貯蔵ユニット

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**Efforts in Residential Sector (Typical Example 2)**

豊田中核産業社会システム 実証推進協議会

■ Environmental Tax Incentives

**Smart House Tax Incentive (First City in Japan)**

Reduced property tax by 1/2 for existing/newly-constructed smart houses, which are equipped with

- solar panels for generating
- storage battery for storing
- HEMS for saving energy

**Tax Incentive for Renewable Energy Generating Facilities**

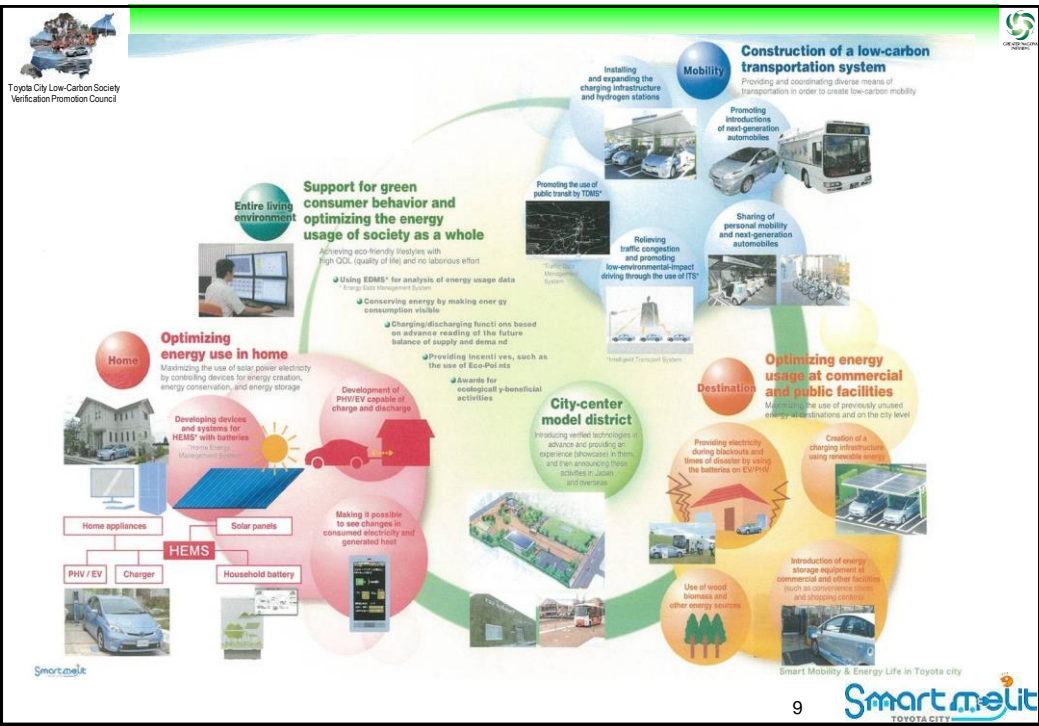
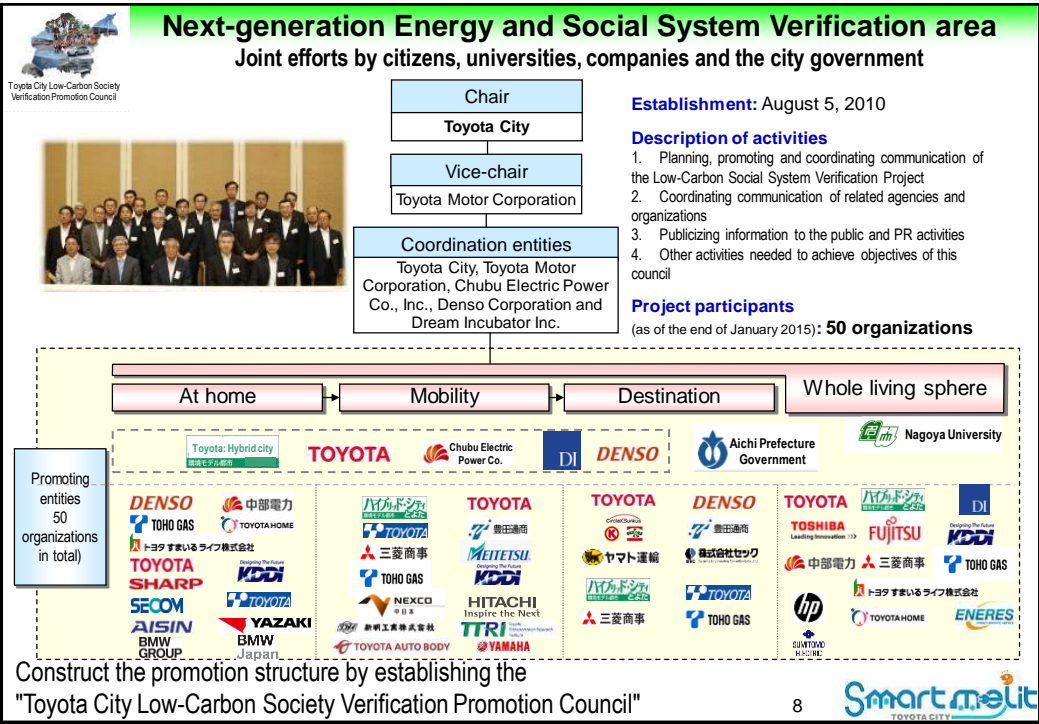
Reduced property tax by 1/2 for generating facilities which are certified by the national gov't with capacity of 10kw - 2000kw (First City in Japan)

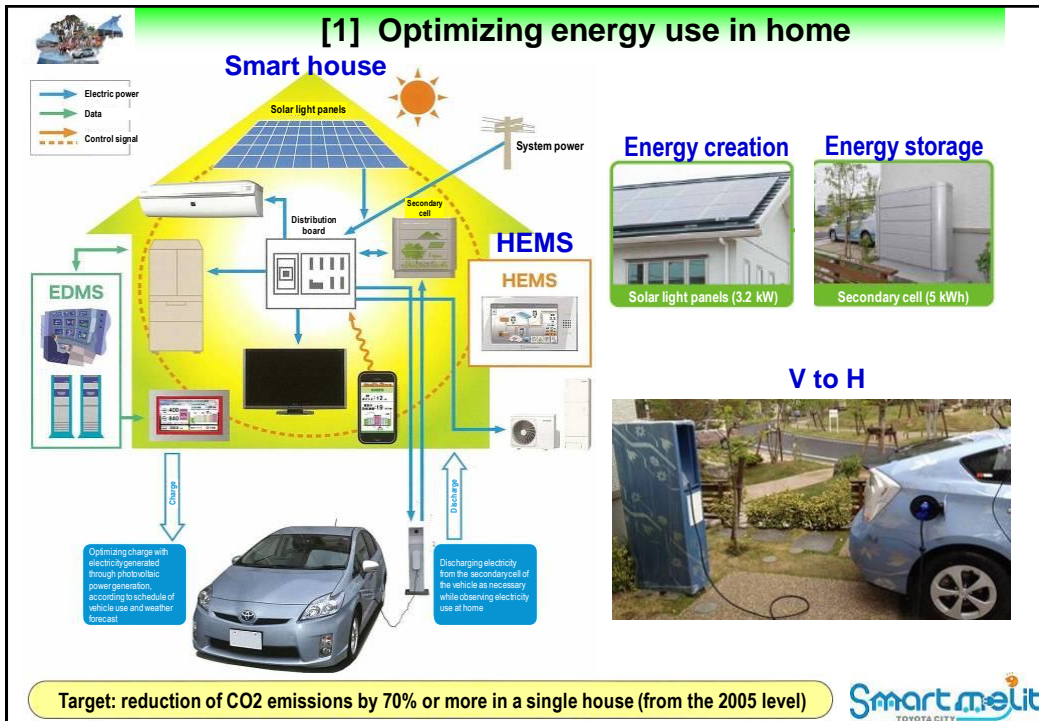
**Tax Incentive for Electric Vehicle (EV)**

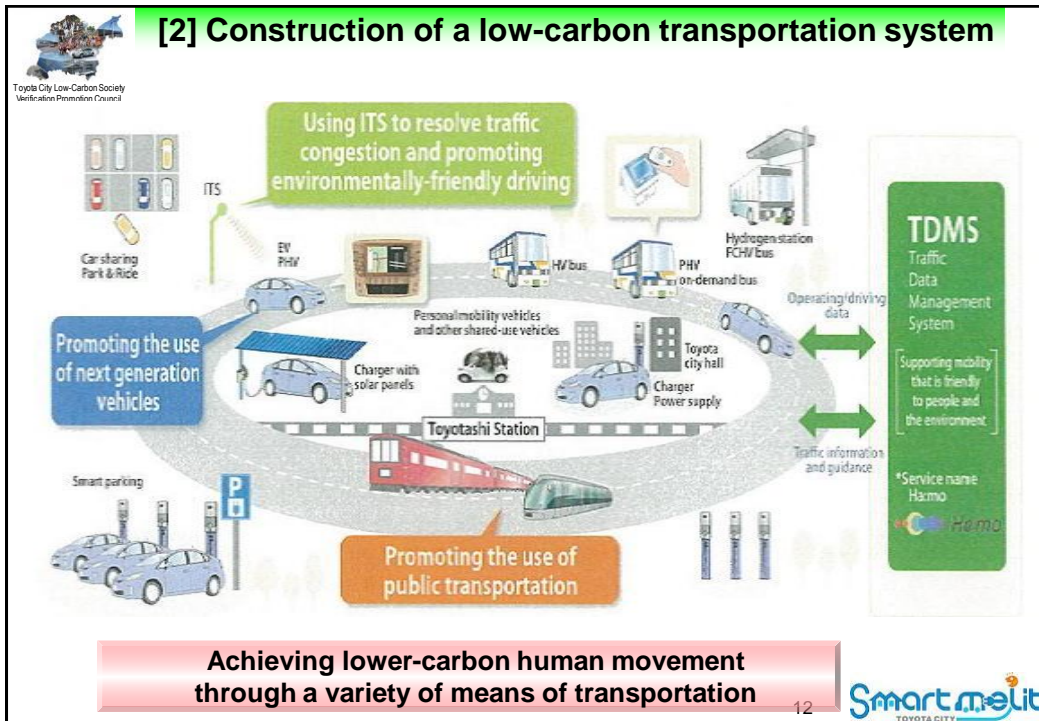
Reduced light motor vehicle tax by 10/10 for EVs and compact EVs (First City in Aichi)

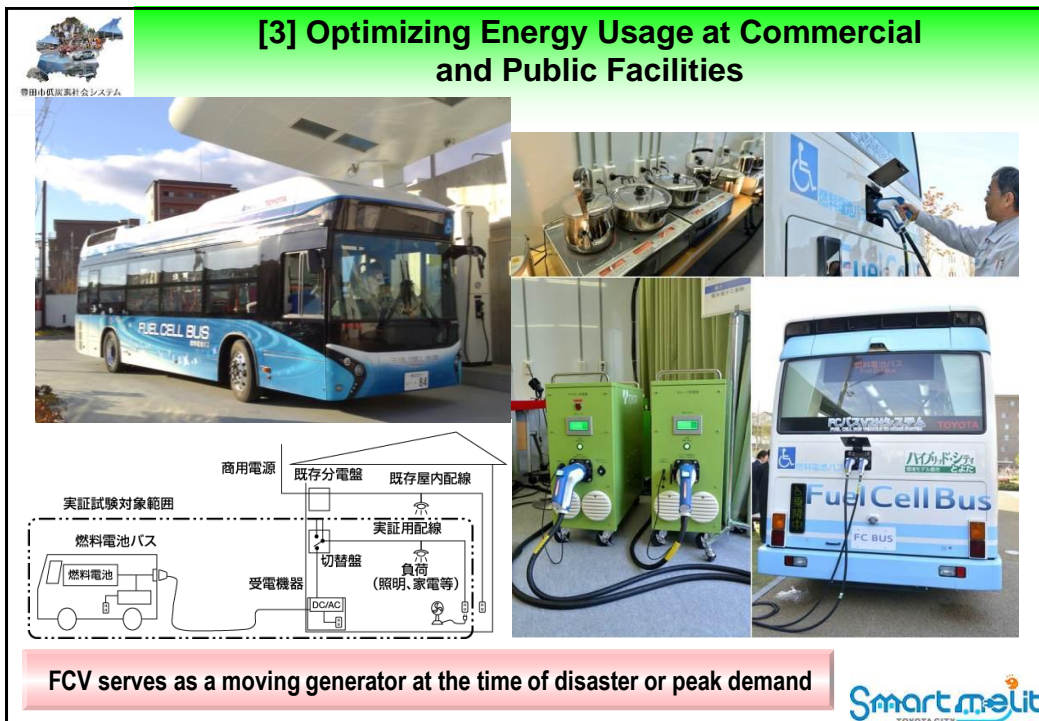
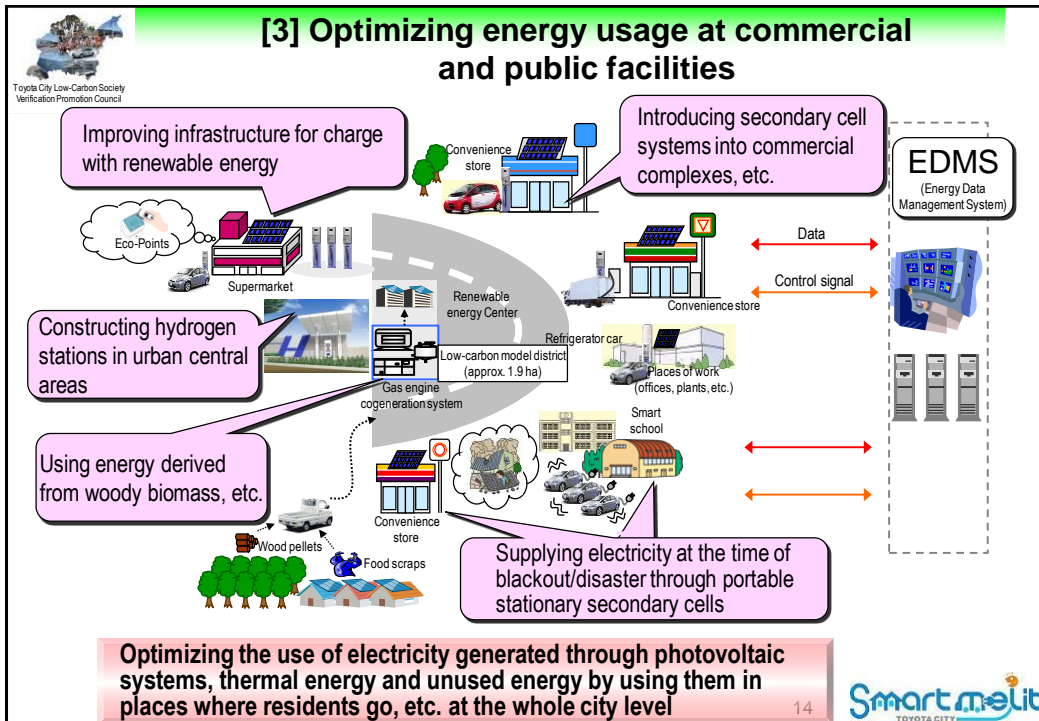
HOME 2011/11/20 8:11:32  
4.1 kWh  
6.6 kWh  
2.5 kWh  
平均消費電力 8.0 kWh  
発電量 12.0 kWh  
蓄電量 4.0 kWh

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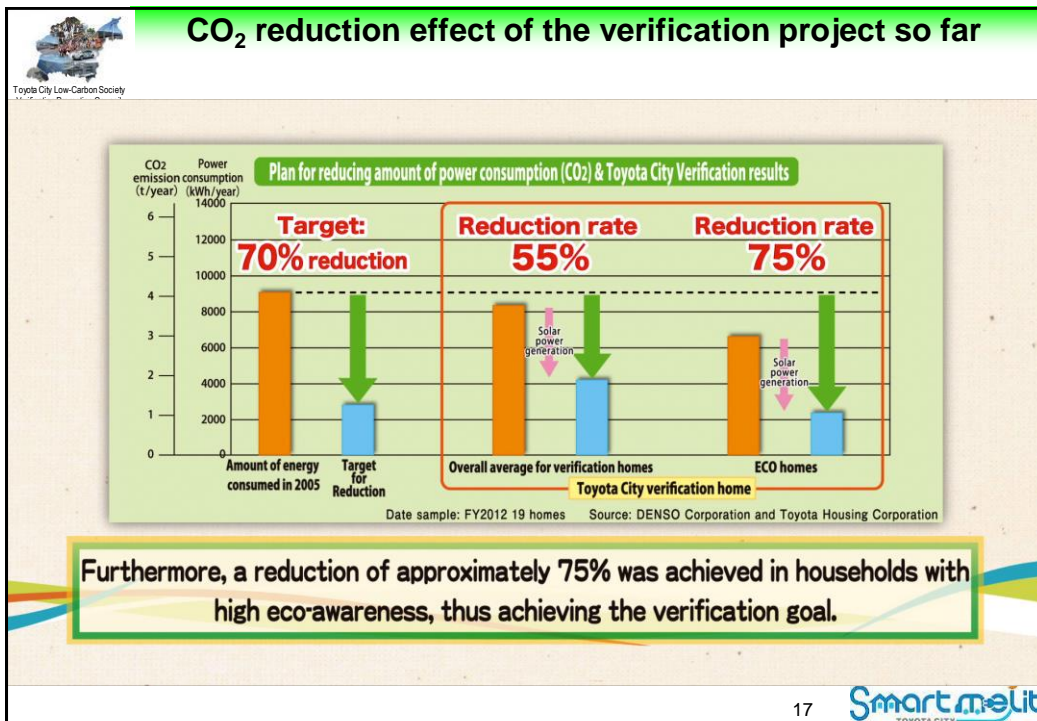
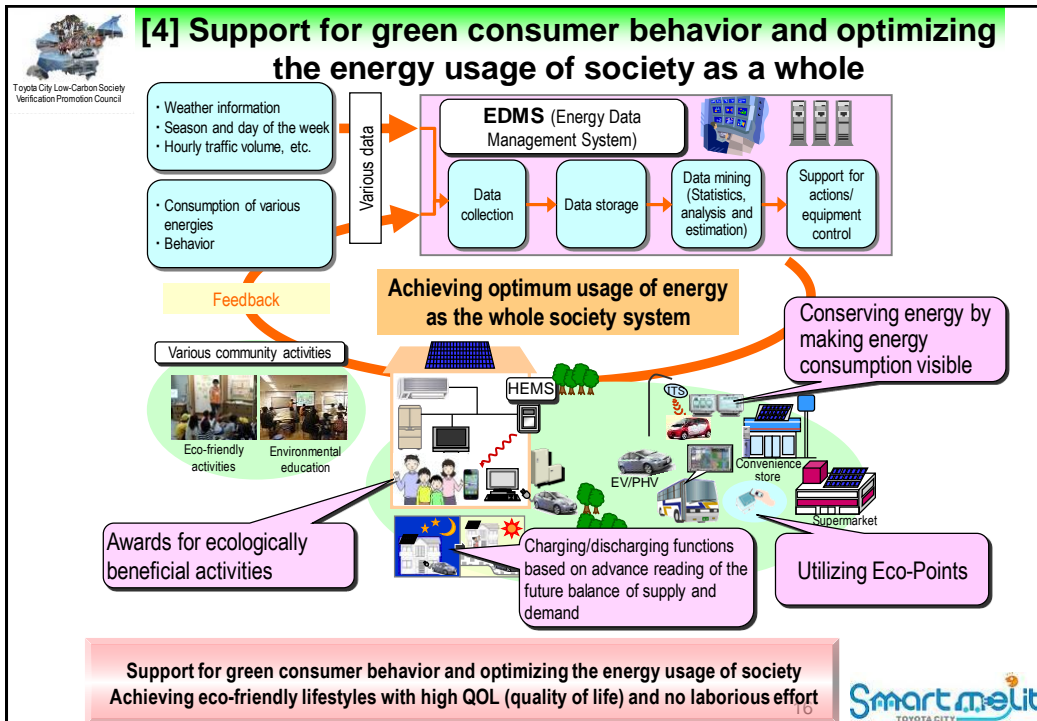












**Ecoful Town: An Area to Visualize and Better Understand Our Eco Efforts in Toyota City**

Toyota City Low-Carbon Society Verification Promotion Council

Total planning area = approx. 1.55 ha (opened in April 2014)

**Hydrogen Station** **FC Bus**

**Food Production in the Urban Area** **Smart House**

House for local production of local energy consumption

**Smart Mobility Park**

ミライの暮らしがここにある。  
さあ、体感してみよう!

とよみ ecoful town

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