



MATSUYAMA'S EFFORTS TO SUPPORT LOCAL RENEWABLE ENERGY

ENVIRONMENTAL MODEL CITY MATSUYAMA

Matsuyama City Office

Deputy Mayor

Akio Nishiizumi



Outline of Matsuyama

Area 429.37km²
Population 514,847 (As of April 1, 2016)
Capital city of Ehime prefecture



Matsuyama Castle



Dog Hot Spring



Osaka-Hiroshima 79min

Hiroshima

Osaka

Matsuyama

Hiroshima

—Matsuyama 68min



Seto Inland Sea



Initiatives of Matsuyama City Government

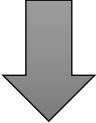
Matsuyama's Efforts

October 1988
Freiburg and Matsuyama signed the
sister city agreement



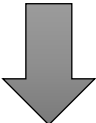
Sister City Agreement Signing Ceremony

In reference to Freiburg's efforts in the
environmental field



Results of the efforts

- Utilization of Solar Energy
- Reduction of Garbage
- Water Saving
- Walking-distance city



March 2013
Selected as an Environmental
Model city

Mayor of Matsuyama receives the Certificate
of Environmental Model City



【What is Environmental Model City】
A city which challenges pioneering
issues to realize a low-carbon society

“Environmental Model City Action Plan”
was made

4 Policies

Promotion of Matsuyama
Sunshine Project

Promotion of Smart
Community

Promotion of Happy City
Development Where Health
is Improved by Walking

Promotion of Local
Circulation System



Construction of
Sustainable Low-Carbon
Society

Promotion of Matsuyama Sunshine Project

Characteristics of Climate

Mild Temperature

(Yearly Average Temperature 16.5°C)

Little Precipitation

(Approx. 1,300mm per year)

Long Sunshine Time

(Over 2,000h per year)



1,200kWh (Matsuyama) > 1,000kWh (National Average)

Promotion of Matsuyama Sunshine Project



① Promotion of Introduction of Clean Energy



② Creation of Environmental Business Industry



③ Effective Use of Energy

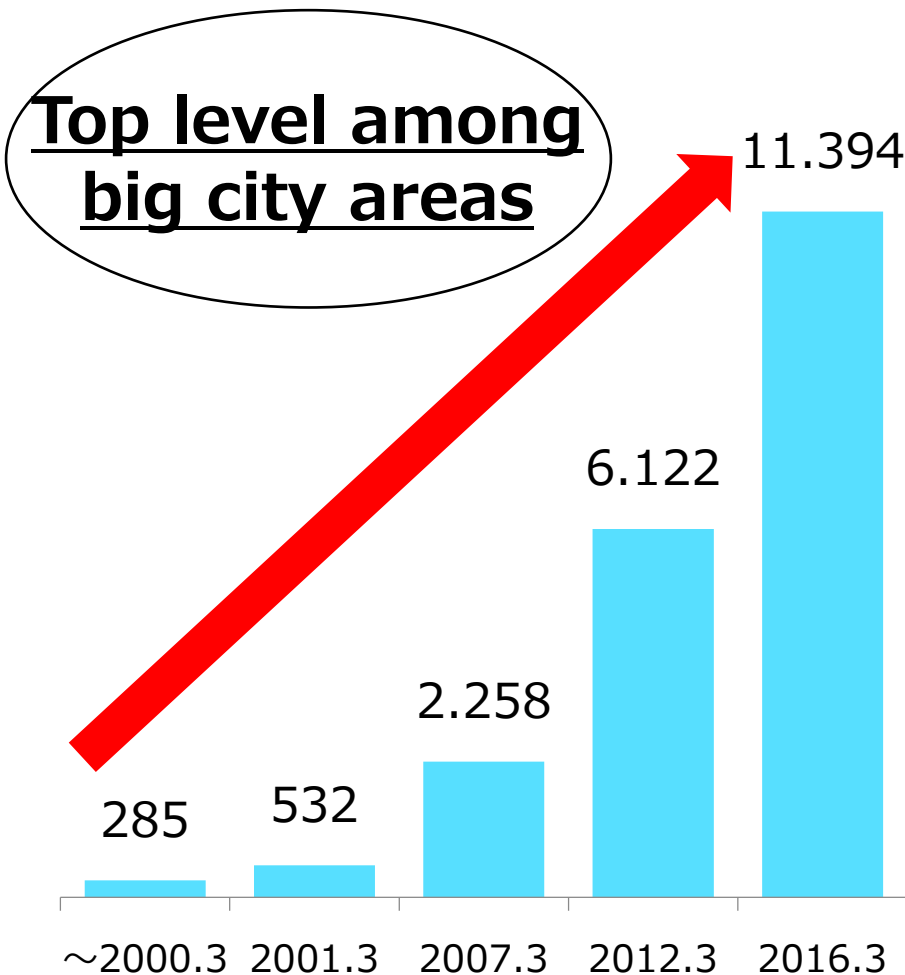


④ Development of Environmental Education



Getting away from global warming/ Creation of new industries

The Accumulated Number of the Introduction of Household Solar Power Generation Systems



Accumulated number

of introduced systems :11,394

Total output :49,000kW

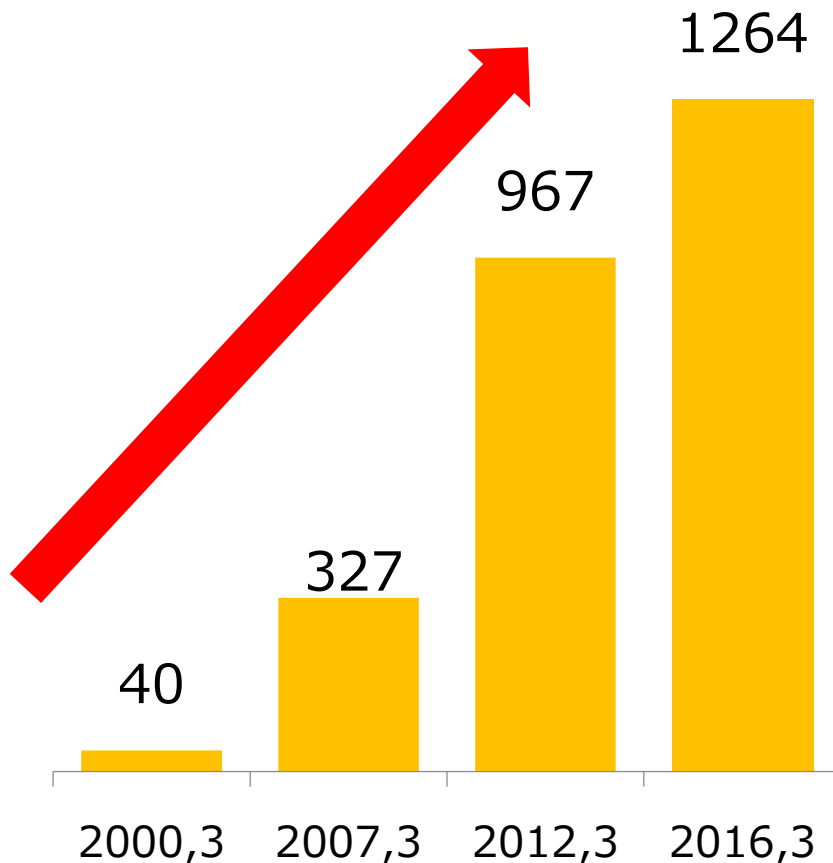
Rate of households having the system :
4.87%

Total amount of subsidiaries :2.55 B yen

Subsidiary Systems

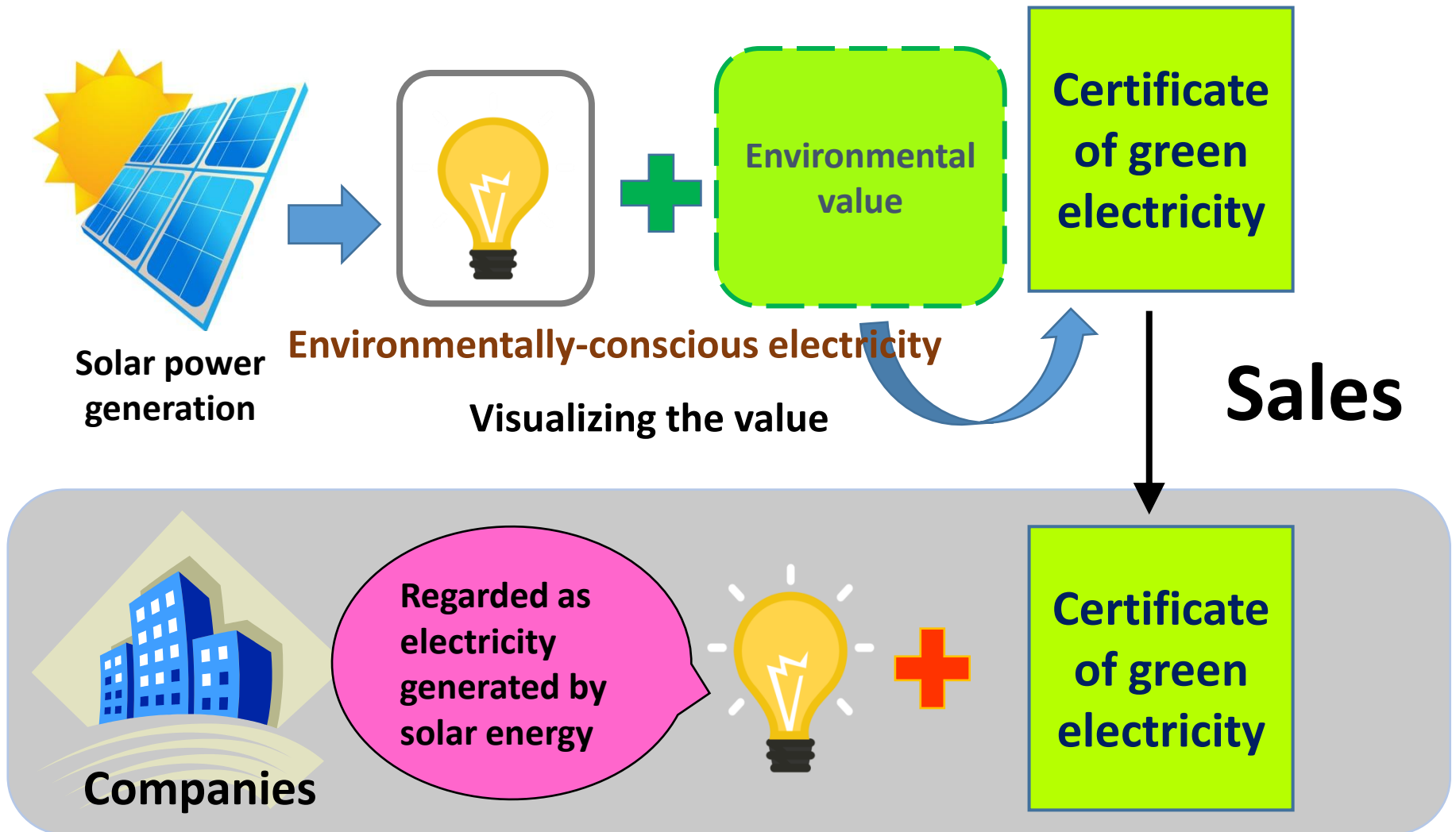
- Solar power generation
- Solar heat use
- Fuel cells for households
- Storage cells

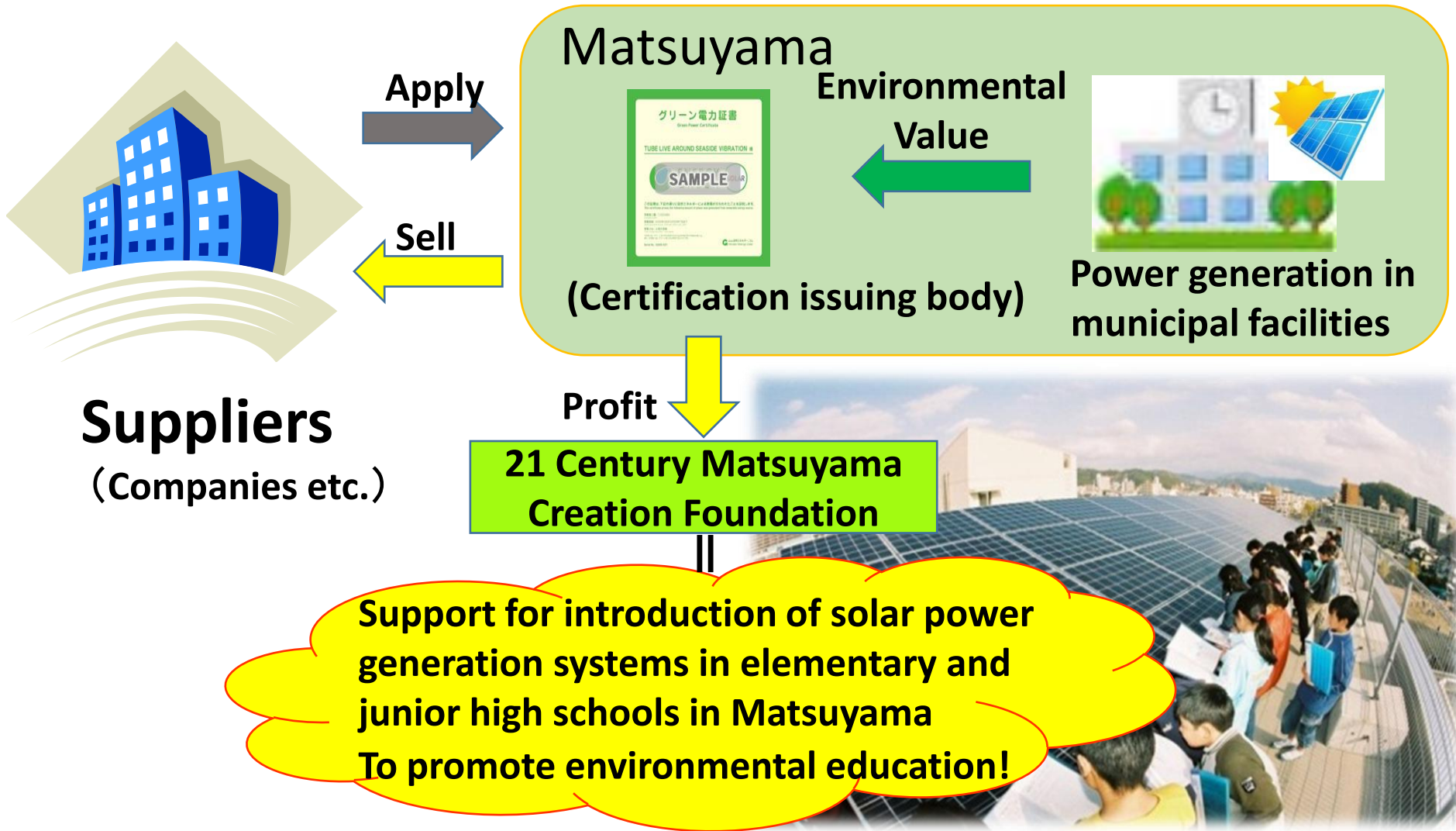
The Accumulated Number of the Introduction of Solar Power Generation Systems in Public Facilities



Accumulated number of systems introduced :71 (including 51 schools)
Total output :1264kW





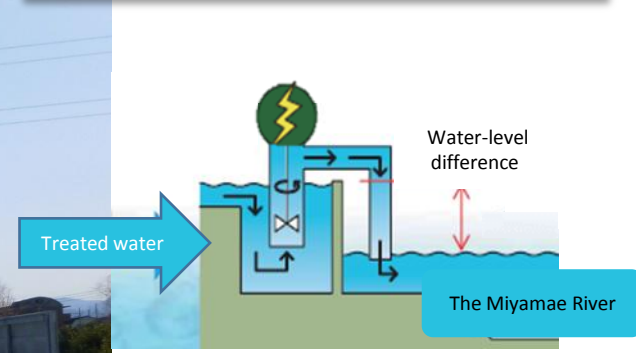


Power generation system using digestion gas



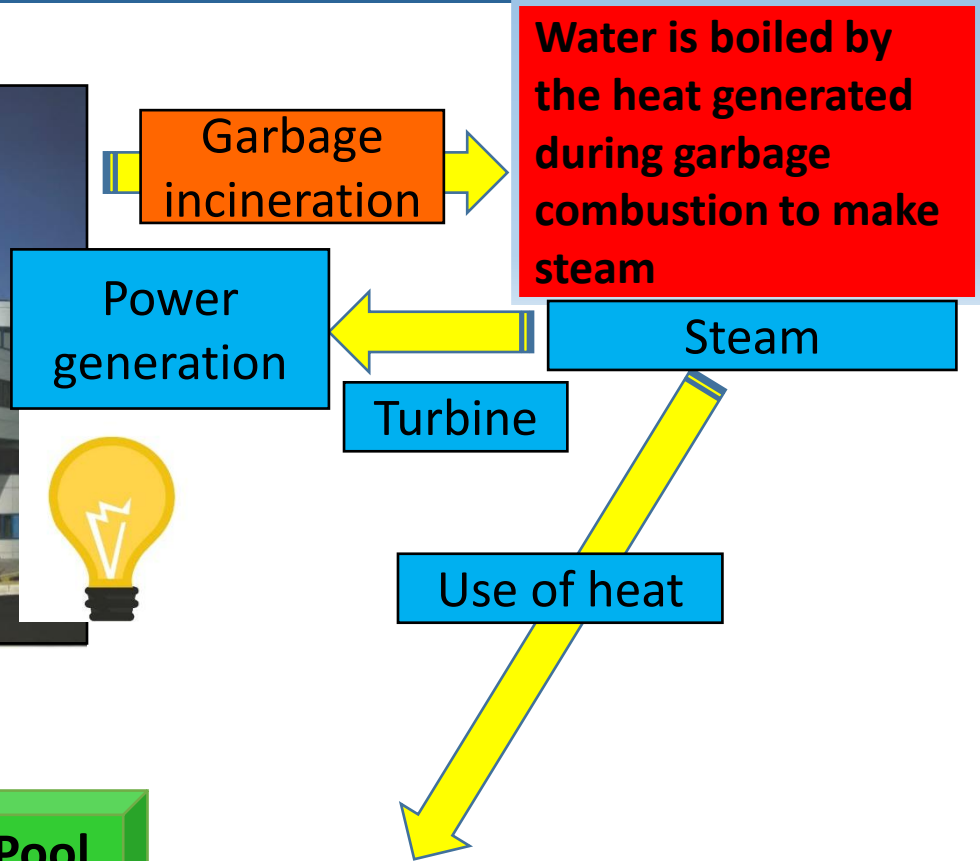
Construction cost : 651 million yen
2 power generators (Each output 330kW)
All generated electricity of approx. 4 million kWh per year is sold (Sold electricity results 180 million yen)

Micro hydroelectric generating equipment



Construction cost : 36.5 million yen
Output 9.9kW
66,000kWh is yearly generated.
All generated electricity is used in the facility.

Garbage Incinerator Plant



Large-sized Heated Pool



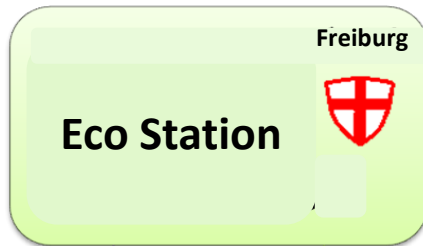
Eco Leader Dispatch Project

Eco Leader: Eco Leaders are the citizens who have extensive knowledge and experience concerning the environment.



From children to adults—A wide variety of menu being developed

Eco Friendship Agreement (7/28/2012)



- Environmental education programs exchange
- WEB meetings held
- Exchange at the event



Talk session in the environmental forum



A presentation on environmental education in Freiburg given by Mr. Herbert Krickl

Environmental class held with the environmental forum



Participants making solar cars by attaching a panel to an empty PET bottle.

Environmental class held at Aratama Elementary School



Experiencing greenhouse gas effects in a parachute

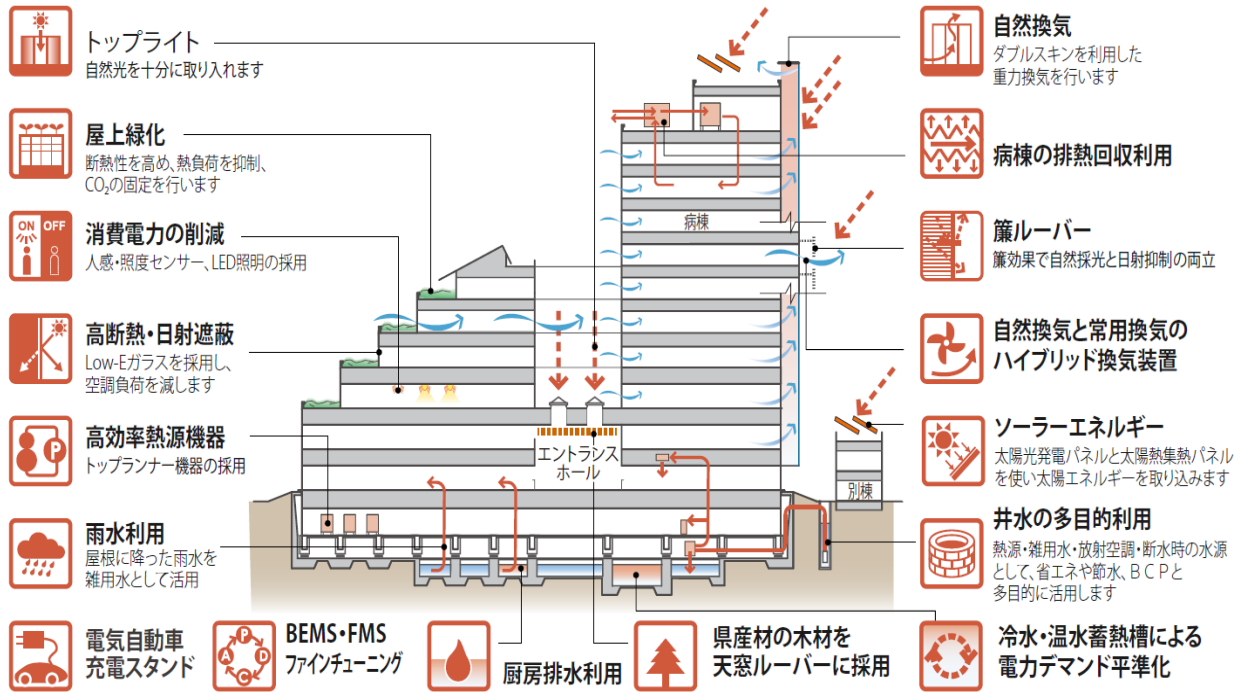
Workshop with students of Graduate School of Science and Engineering, Ehime University



Discussion on the image of Matsuyama concerning energy in 2035

The actions of private companies and universities in Matsuyama

The initiatives of
Matsuyama Red Cross Hospital
And Ehime University



Environmentally-conscious project using the natural blessings for energy saving and creating

CASBEE 2014
BEE Value 4.1
S Rank achieved

31% of Reduction achieved
Life cycle CO₂ emission compared to the standard model

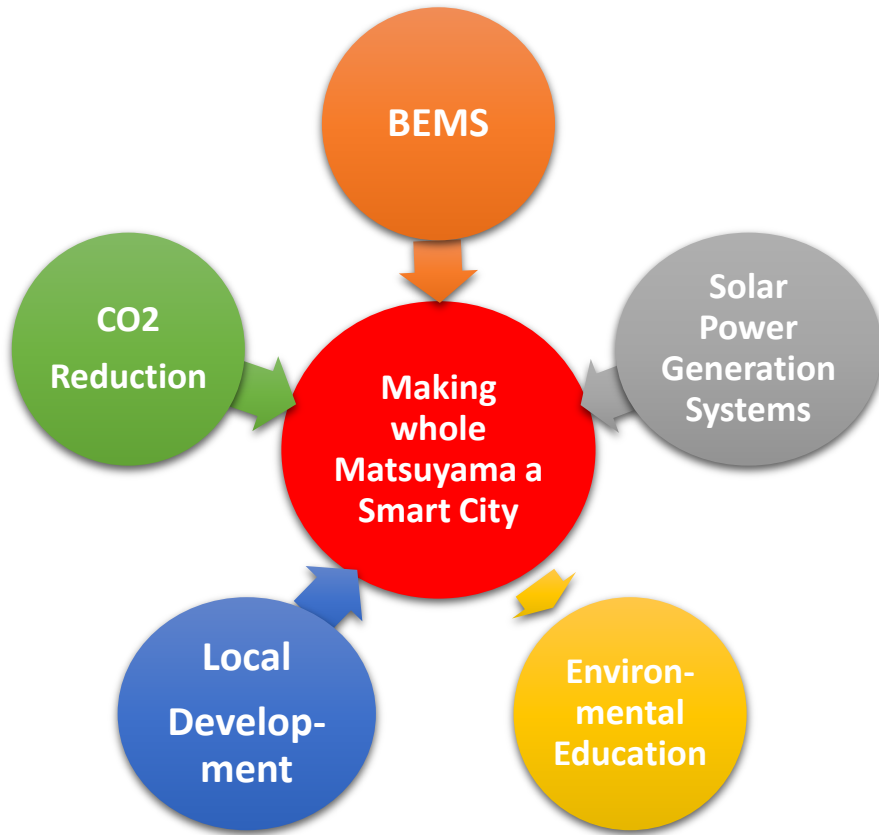


◆ Concept of the new hospital “Environmentally-conscious hospital”



- * Creation and provision of comfortable medical treatment
- * Environmentally-conscious garden hospital
- * Eco hospital effectively using natural energy

Our Plans for the Future



In 2016, Smart City Promotion Project started in the island area

Please come and visit Matsuyama, Japan!



Matsuyama