

TOSHIBA Smart Community An Introduction

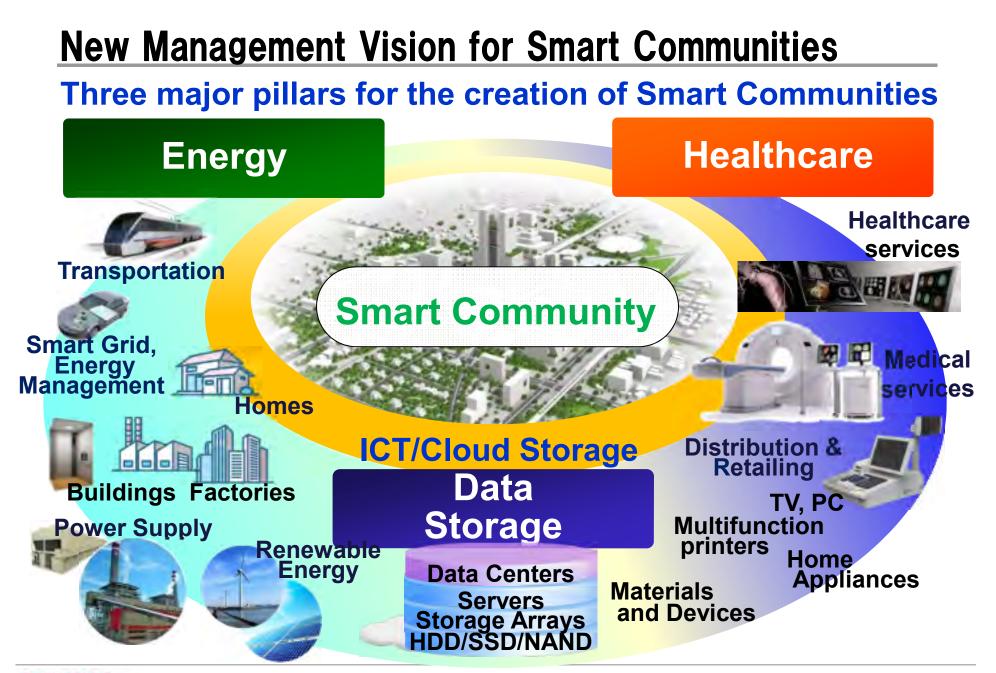
4 October 2013

Smart Community Div. Toshiba Corporation



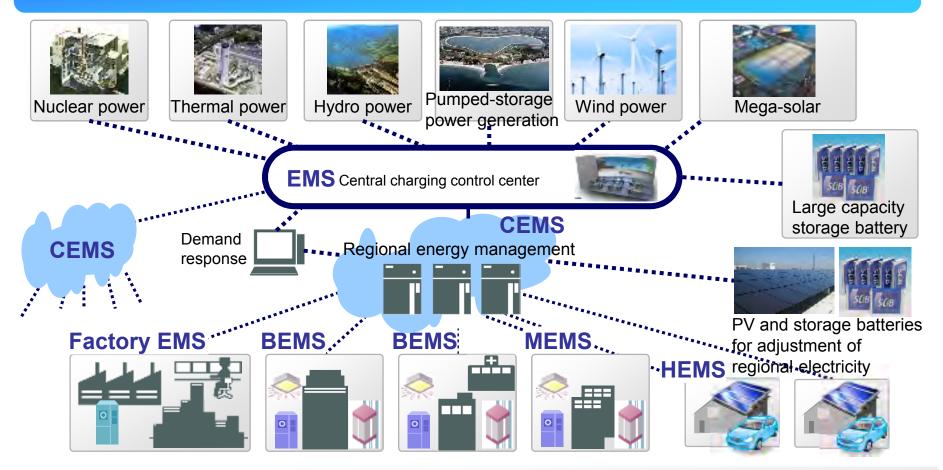
Toshiba Group contributes to the sustainable future of planet Earth.

Copyright © 2013 Toshiba Corporation. All rights reserved.



Energy Solution

Regional energy management in accordance with main grid

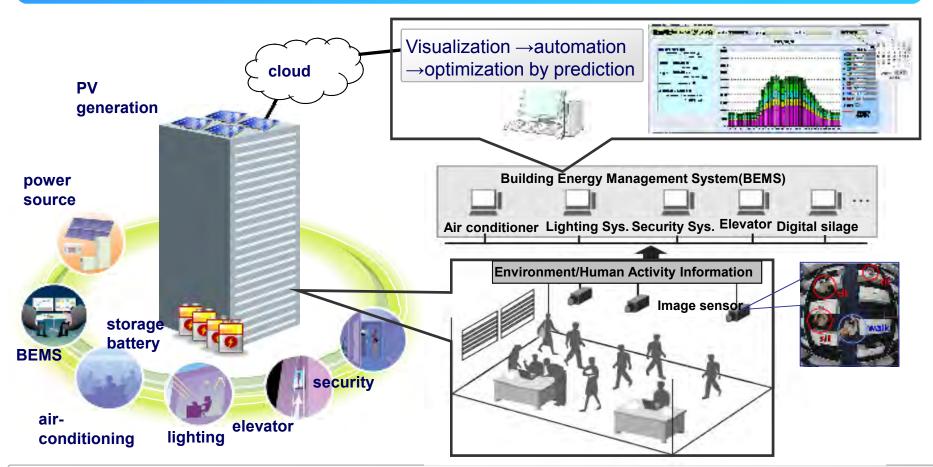


- Stabilization of renewable energy supply, lowers power costs

- Realization of energy saving and efficient use in the region with Demand Response

Building Solution BEMS

Pursue comfort and efficiency through creating, accumulating and saving energy



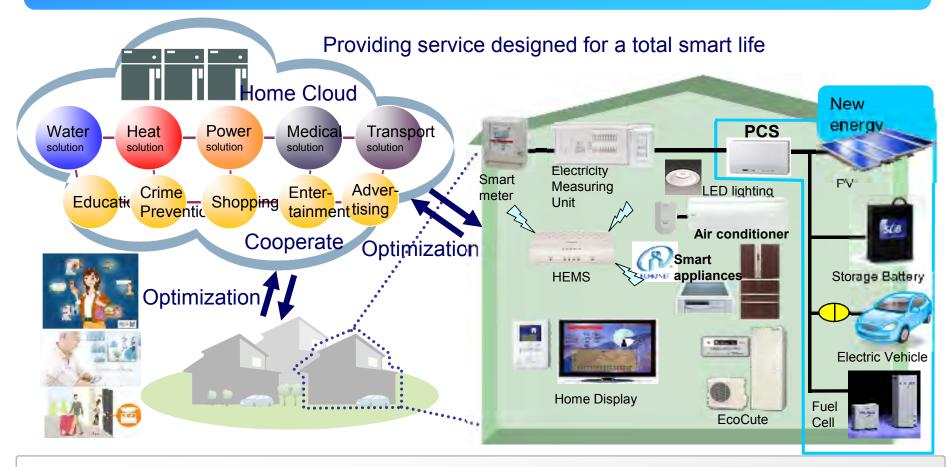
Toshiba's BEMS achieves 9-12% of energy saving by optimized control of facility, demand response, and peak shift(*)



(*)Target value is based on the findings of the Toshiba, it is not a guarantee for individual cases.

Home Solution HEMS

Provide household with various optimized services

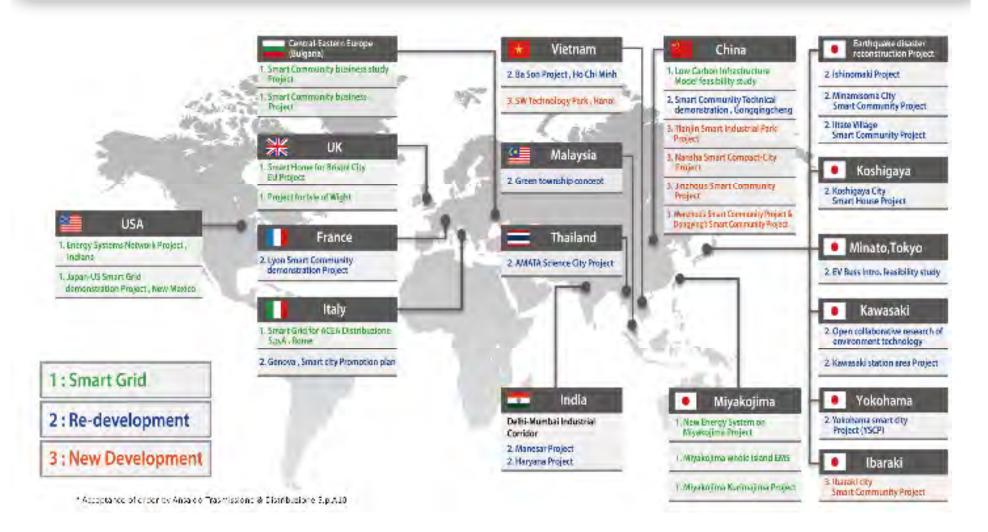


Realizing energy saving of 10% by visualization and of 5-10% by peak shift with demand response based on total control of smart home, energy equipment, and EV charging(*)

(*)Target value is based on the findings of the Toshiba, it is not a guarantee for individual cases.

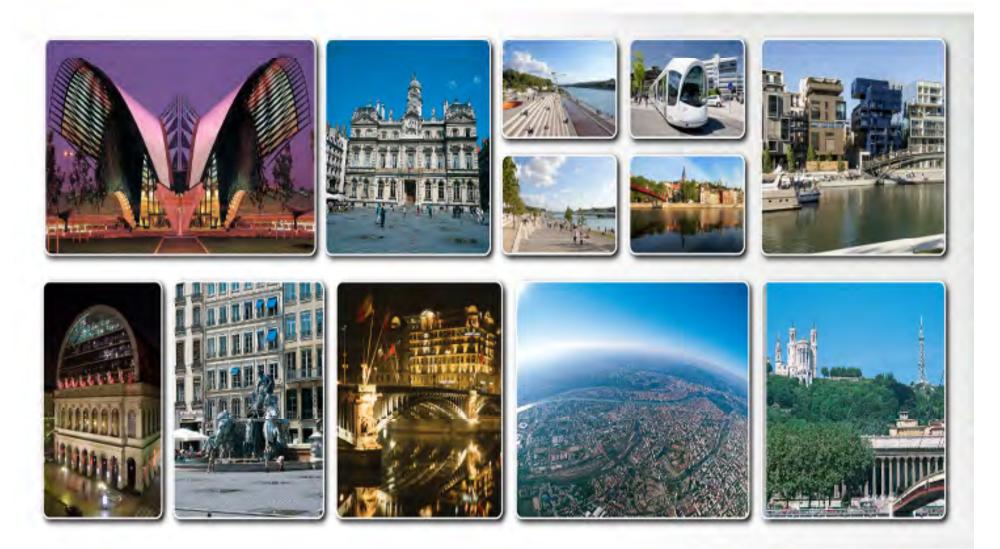
Smart Grid/Community Projects Worldwide

Globally expanding Smart Community by meeting each regional challenge



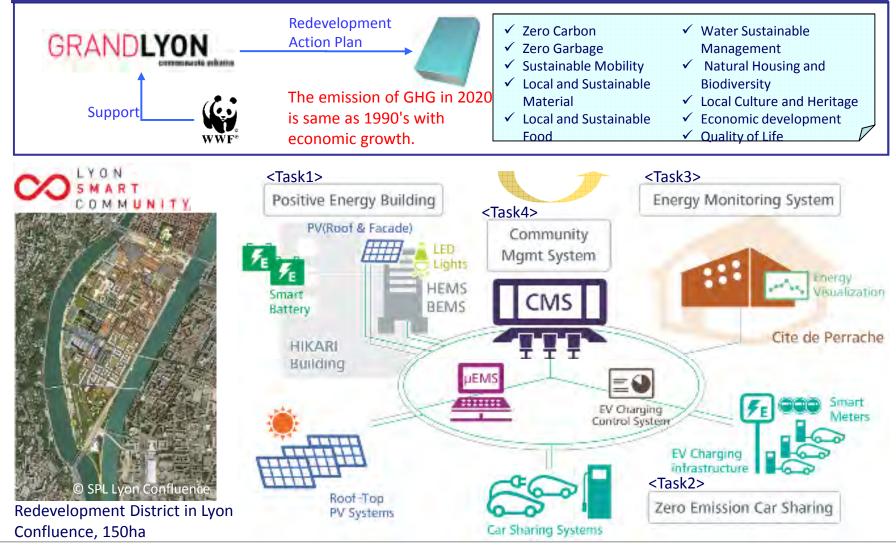


France: Lyon Project



Project Objective

Achieve the "20-20-20", environmental policy of EU 5 years in advance through the use of innovative Japanese technologies in the redevelopment district.



PROJECT OVERALL

Realize zero increase in CO₂ emission and prevent traffic congestion with district-wide development.



<Task4>

Open data analytic engine for the global district



<Task1>HKAR

Renewable energy, storage,EV shaenergy saving and energy managementby PV



<Task2> CUNMCOV

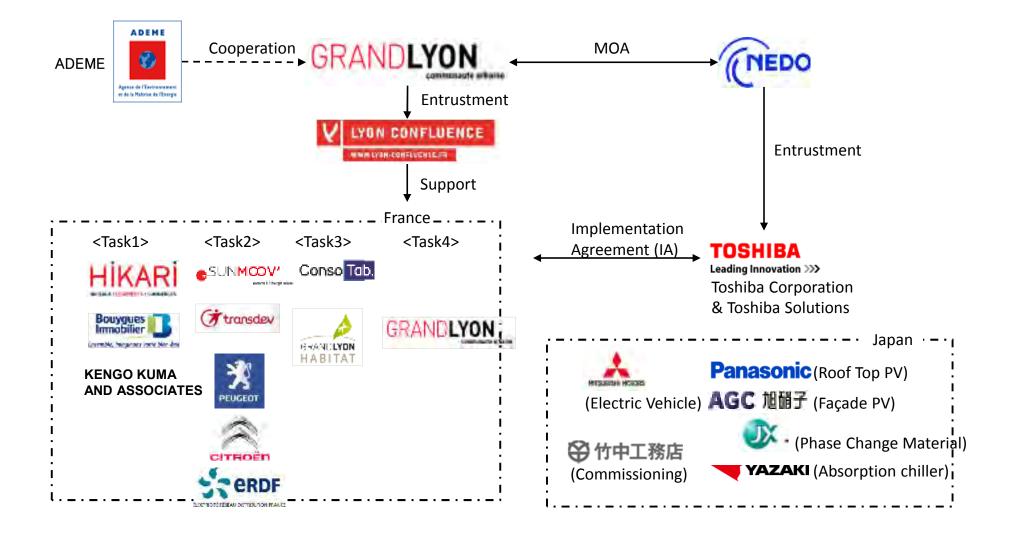
EV sharing operation powered



<Task3> Conso Tab.

Visualization and recommendation of energy with smart devices

PROJECT ORGANIZATION





Japan: YOKOHAMA Smart City Project (YSCP)

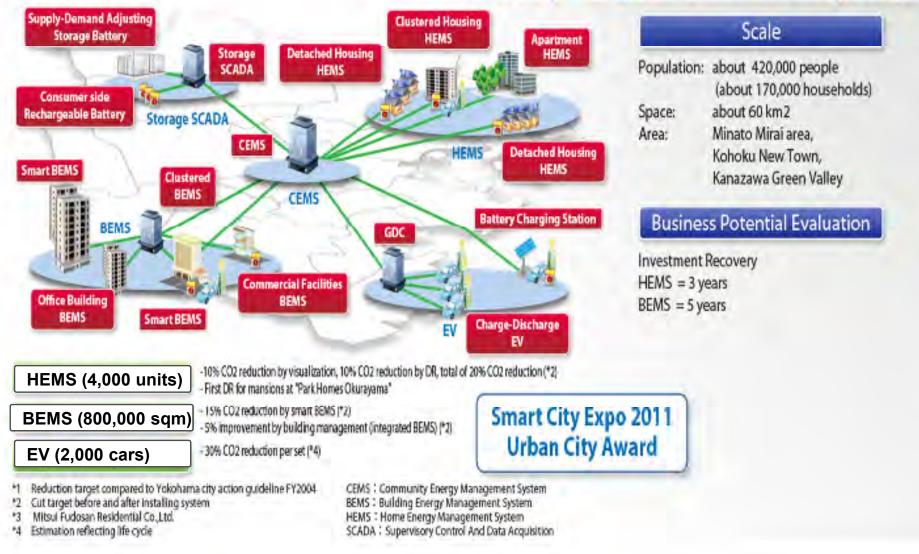


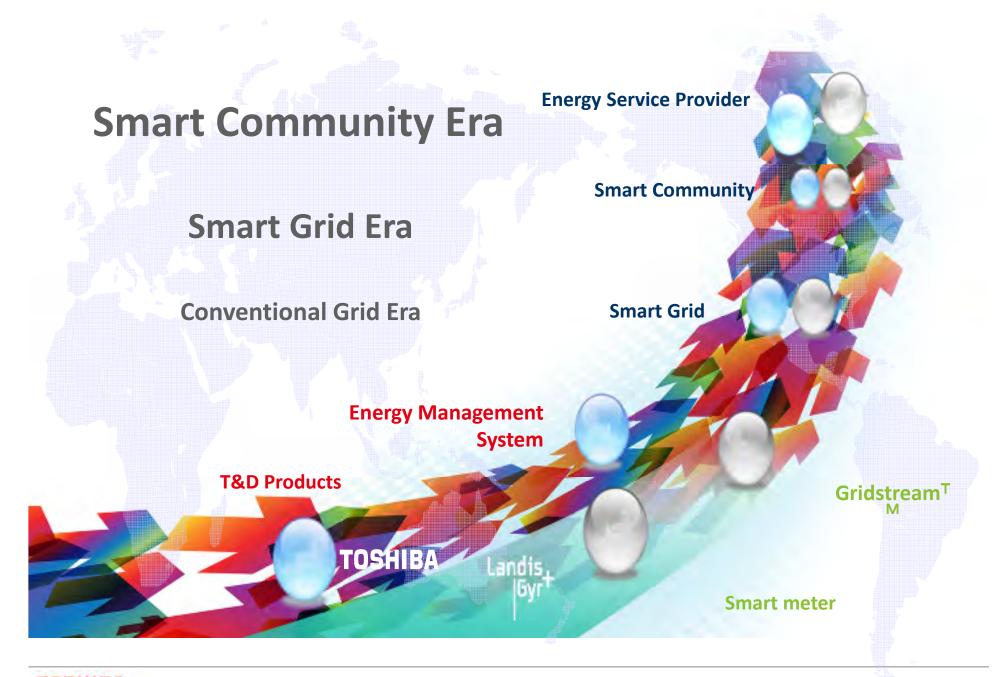
Copyright 2013 © TOSHIBA CORPORATION

TOSHIBA

Japan: YOKOHAMA Smart City Project (YSCP)

Construct a society aiming to cut CO2 emissions by 30% (*1)





TOSHIBA Leading Innovation >>>