

ECOSOC Implementation Forum  
Toyota City, Japan



The key to this project is 'Construction of Smart Communities'

The most critical point of this approach is creating a fusion of people and technology. This means introducing advanced technologies into social systems, while at the same time creating a mechanism by which each community can be independent while still complementing one another through inter-community cooperation.

We have created a fusion of technologies, information, and other resources from top Japanese corporations in all areas, including Toyota Motor Corporation, as well as from universities and the city government, and are conducting verification tests aimed at achieving a sustainable low-carbon society. City residents participate in these tests to ensure a consumer perspective.

We are connecting information from homes, schools, commercial facilities, and transportation in order to optimize energy use throughout the daily living environment.

The key to this approach is automobile technologies. We aim to incorporate automobiles into all areas of everyday living, not only as a means of transportation, but also as mobile batteries and mobile information terminals.

Technologies for optimizing energy use at the destination include the use of solar power generation at commercial facilities, public facilities, factories, and other sites, as well as the introduction of storage batteries and coordination with the electric power contained in next-generation automobiles.

Devices are installed which allow to be supplied directly to home appliances, so that the vehicles (EV/PHV/FCV) can be used in evacuation shelters at time of disaster.

In a Smart Community, residents enjoy their lives while working for energy sharing and peak

shifts. Already, smart devices and energy management have achieved reductions in carbon dioxide emissions of approximately 70% and reductions in peak electrical power demand of 40% under certain conditions.

Observers from 60 countries have visited the Toyota City Low-Carbon Society Model District which serves as the showcase for the programs of the city.

The range of Smart Community activities is large, and will lead to revitalization of a variety of industries, as well as improvements in the quality of residents' lives.

Through these programs, we are constructing of Smart Communities that meet a broad range of local and national needs. We are using these systems to support the recovery from the Great East Japan Earthquake, and are working to apply them to other areas in Japan and overseas.

For the additional photos and videos, please visit our website; <http://www.teitanso-toyota-city.com/en/index.html>