

Towards a better future,
for people and the environment

Green Community

— TAGONISHI —



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Tagonishi area is about 7km from the center of Sendai City. It is about 1km from Fukudamachi Station on the JR Senseki Line, and is about 3km from the Sendai North interchange, with access to both the Sanriku Expressway and Sendai East Highway. The tsunami triggered by the 2011 Great East Japan Earthquake reached approximately 2km from Tagonishi, however, fortunately, there was no damage by the tsunami or by liquefaction. Currently Tagonishi is included in Sendai City's Earthquake Disaster Reconstruction Plan as a model town.

This project got underway in 2009 as the Sendai Tagonishi Land Readjustment Project. This site, of approximately 16.32 hectares, was formerly rice paddies.

The Sendai Green Community Association
KOKUSAI KOGYO CO.,LTD.



Green Community TAGONISHI, Bringing comfort and safety to a new level

Green Community Tagonishi maximizes energy efficiency and brings a new level of comfort to the living experience. The community is also disaster resilient to bring peace of mind to those resettling after the 2011 Great East Japan Earthquake and Tsunami.

Tagonishi will bring comfort to a new level by using the latest in energy management technologies for energy efficiency, a lighter ecological footprint, as well as for greater disaster resiliency.

Using the latest urban design techniques to create three unique zones.

Tsunami relocation public housing

Designed to make community communication easy.

Sendai City is constructing 176 apartments to house those left homeless after the 2011 tsunami. There will be four medium-rise blocks centered around an inner court and a network of houses connected by pathways and common areas. Based on Sendai City's design concept for Tagonishi to become a model eco-town, it will employ an energy management system with solar photovoltaic power generation systems and energy storage batteries for demand response* and to supply the community (evacuation) center with power during blackouts and so on.

*Demand Response is a system employing redeemable points to reduce peak power demand and to encourage energy savings by each household.



Smart village

Comfortable living made possible with the latest technology and advanced architectural design.

We have aimed to make living enjoyable with abundant greenery in common areas interconnected by pathways, and with advanced renewable energy (RE) systems combining solar power and gas cogeneration systems (CGS). This environmentally-friendly and technologically advanced community is born out of collaboration among various companies and Tohoku University for a totally new living environment.

Commercial zone

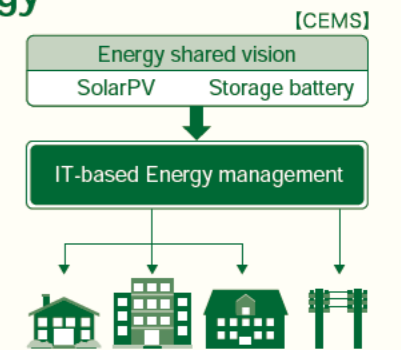
A shopping mall to enliven one's day.

The commercial zone is to have a variety of facilities, from shops to meet one's daily needs to something special for a memorable weekend. Also, we are aiming for a management structure that will provide peace of mind in the event of a disaster.



Visualization of energy

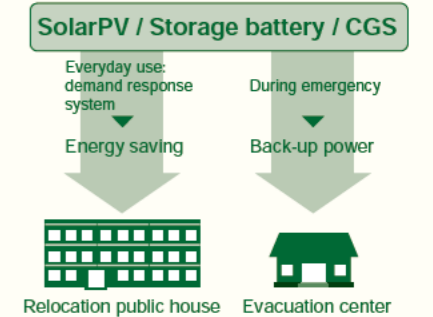
The community energy management system will visualize energy consumption of the entire community, particularly in the smart village and relocation public housing.



* Operational management by the Sendai Green Community Association.

Relocation public housing energy management

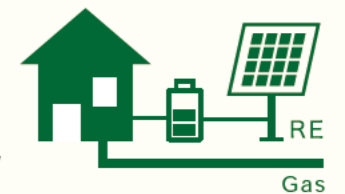
The relocation public housing will have high-voltage grid access combined with a demand response system. We hope that this will encourage households to become even more conscious of saving energy.



* Operational management by the Sendai Green Community Association.

Optimizing the energy mix

The smart village makes the most of renewable energy sources such as solar photovoltaics. It is not over-reliant on one specific energy source, and the system will have a high energy efficiency. Moreover, by using storage batteries it will be able to supply electricity in the event of an emergency.



Next generation infrastructure

The community will have infrastructure such as charging stations to enable the spread of electric vehicles.

