

July 3, 2014

For Immediate Release

Sumitomo Forestry Co., Ltd.

Full Roof-Mounted Large 10kW-plus Capacity Solar Power Generation System Sumitomo Forestry Launches Green Smart Solar Z

In February 2014, Sumitomo Forestry Co., Ltd. began selling the environmentally sound Green Smart houses, which utilize wood and combines *Ryouonbou* design concepts (which harness the sun, wind, and garden vegetation to naturally heat and cool the house) with cutting-edge energy saving technologies to provide comfortable living. Sumitomo Forestry now announces that the Green Smart Solar Z home, a new Green Smart home that offers a new full roof-mounted solar power generation system that allows for maximum use of limited roof space for a large capacity system, was launched on July 3.

The roof of the Green Smart Solar Z is gently sloped with integrated solar panels and planar angled, realizing a beautifully designed house with a clean external appearance despite its large power generation system. The installed solar power generation system is a highly efficient 10kW-plus capacity full roof-mounted system, maximizing roof usage for efficient energy generation. It is also compatible with Japan's feed-in tariff scheme, moving one step closer to Life Cycle Carbon Minus (LCCM) housing.

■ Overview of Specifications

Product name	Green Smart Solar Z
Launch date	July 3, 2014
Sales area	Nationwide (Excluding Okinawa Prefecture and certain areas)
Structure	Multi-Balance Construction Method, Big-Frame Construction Method
Mounted system	Full roof-mounted solar power generation system (Efficiency: 10kW+)
First year sales target	200 houses

■ Benefits of Green Smart Solar Z

Green Smart is the general term for all of our homes (and rental housing) equipped with environmentally sound systems and fixtures. The name comes from combining Sumitomo Forestry's "Green" image color with the "Smart" of a smart house. It was launched in February 2014 and is the next step of our environmentally sound housing project Smart Solabo, based around the three concepts of (1) wooden housing, (2) using less energy, and (3) smarter energy use, in order to promote both a better living environment and global environment. Insulation efficiency is enhanced through improving the insulation materials and using Low-E insulated glass with argon gas, and customers can be provided with a combination of features—such as a solar power generation system, household ENE-FARM fuel cells, a household storage battery system, Home Energy Management System (HEMS), and V2H system—that suit their lifestyle and needs. These smart houses, with high insulation efficiency, combine renewable resources such as wood with advanced technology in order to preemptively meet the housing energy conservation standards set to begin in fiscal 2020.

Even among other Green Smart houses, Green Smart Solar Z in particular makes solar power generation systems a viable option by allowing a large 10kW-plus capacity system to be installed on roofs 46 square meters or larger. It also complies with Japan's feed-in tariff scheme, meeting consumers' needs for selling off extra unused energy they produce for additional income.

Using a model housing plan (12.7kW), simulations have shown that by utilizing the feed-in tariff scheme, customers can expect a return of approximately 9.2 million yen over the course of 20 years.

Calculation Basis

Estimated 20 year power generation: 13,348 kW/year x power buyback price of 34.56 yen (tax included) x 20 years of selling energy = Approximately 9.22 million yen in sold energy revenue

*Model housing plan used for calculations: Roof facing south with approximately 9 cm gradient, in the Tokyo area. No decrease in power generation is expected due to aging.

Calculation results are approximations. Actual results may vary based on conditions such as weather, location, and installation.

Further changes to housing environments are continually being considered in response to the housing energy conservation standards set to take effect in fiscal 2020. In addition to improving the basic functions of housing such as insulation efficiency, Sumitomo Forestry is looking to reduce energy consumption and CO₂ emissions by combining those improvements with the newest in environmental systems and fixtures, creating housing that achieves both smart generation and use of energy in smarter ways. Green Smart Solar Z is just one more example of Sumitomo Forestry's ongoing effort to create LCCM housing.



Green Smart Solar Z external image

About Sumitomo Forestry

Founded in 1691, Sumitomo Forestry Co., Ltd. and its Group companies have broadened business activities focused on wood. Based on its corporate philosophy—"utilize timber as a renewable, healthy and environmentally friendly natural resource, and contributes to a prosperous society through all types of housing-related services"—and with its approximately 250,000 hectares of owned and managed forest, the global network that spans more than 20 countries and expertise and technology in housing-related businesses, Sumitomo Forestry Group is developing the Forestry and Environment Business, the Timber and Building Materials Business, the Housing Business, the Overseas Business, the Lifestyle Service Business and other businesses both in Japan and abroad. Adding such businesses as wooden biomass power generation and Timber Solution, it will continue to pursue the potential of timber.

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