

For Immediate Release

Sumitomo Forestry Co., Ltd.

First flagship LCCM model house opens

Achieves a negative CO₂ balance over the house's entire life cycle

Sumitomo Forestry Co., Ltd. (President and Representative Director: Toshiro Mitsuyoshi; headquarters: Tokyo; hereinafter, Sumitomo Forestry) is pleased to announce the October 8th opening of a model house with LCCM house specifications in Yonago City, Tottori Prefecture.

LCCM (life cycle carbon minus) houses achieve a negative CO₂ balance over the building's entire life cycle. Sumitomo Forestry began selling LCCM houses as its environmental flagship model from April 22nd.^{*1} With our proprietary BF (big frame) construction method to enhance longevity and the use of solar power and other renewable energies, we are striving to contribute to the realization of a decarbonized society.



Interior with generous use of wood

^{*1} April 21, 2022, press release: Launch of Environmental Flagship "LCCM Housing"
https://sfc.jp/english/news/pdf/20220421_01.pdf

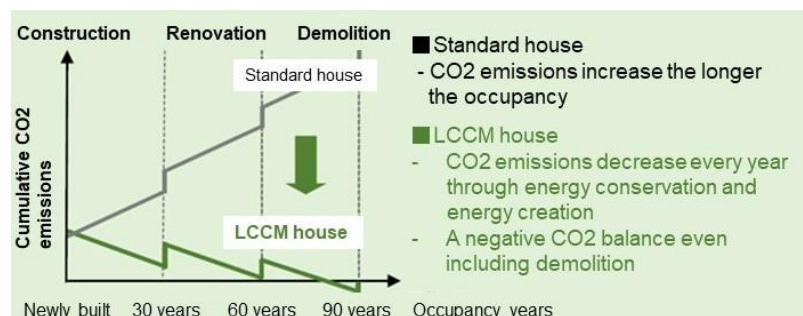
■Thinking behind LCCM houses

LCCM houses achieve negative CO₂ emissions across the entire life cycle of the home by reducing CO₂ emissions during construction, occupancy and demolition, and by generating solar power and other renewable energies.

<Figure, right: CO₂ balance>

Standard house: A conventional wooden house that does not have solar power generation or other types of environmentally conscious equipment.

LCCM house: Based on Sumitomo Forestry's model plan (BF construction method, two floors, total floor space 114.18 m²)



■Impact of carbon neutral design

Trees absorb CO₂ from the atmosphere through photosynthesis and store it as carbon for long periods of time even after harvesting and processing into wood products. The model house utilizes the BF (big frame) construction method, which allows for flexible changes in floor plans according to the

occupant's life stage and contributes to the building's longevity, an important element in long-term carbon fixation. Furthermore, an innovative design that controls light and heat and a 9.735kw solar power generation system significantly reduce CO₂ emissions during occupancy in line with LCCM housing standards. The structural frame wood uses 41.62m³ of wood and the carbon storage amount is approximately 32t (CO₂ base)^{*2}, equivalent to a forest the size of approximately 19 tennis courts.^{*3}

^{*2} "Guideline for the Labeling of Carbon Stored in Wood Used for Buildings," Forestry Agency

<https://www.rinya.maff.go.jp/j/mokusan/mieruka.html>

^{*3} Based on a conversion of a 50-year-old Japanese cedar forest

■Proposing life in a wooden house that showcases the four seasons

With space for remote work, an efficient household traffic flow and other features, the layout design is tailored to the needs of each family member and expands the possibilities of living styles. With a spacious wood deck, residents can enjoy outdoor experiences, home gardening, open-air dining and the change in seasons. Information about how wood in this Kinoie Lab^{*4} model house benefits both mind and body and the types of new lifestyles enjoyed by our model family of four (plus a dog) are featured on Instagram^{*5} and YouTube^{*6}.

^{*4} Website on research related to the potential of wood from Sumitomo Forestry's unique perspective: <https://sfc.jp/ie/tree/lab/>

^{*5} Sumitomo Forestry Housing Division official Instagram account: https://www.instagram.com/sfc_ie/

^{*6} Sumitomo Forestry Homes YouTube channel: https://www.youtube.com/c/sfc_ie



Wood deck that connects the interior and exterior



Exterior design that showcases the seasons

<Model house information>

Location	2360-7 Ryomitsuyanagi, Yonago, Tottori (Adjacent to the Sanin Sales Office, Okayama Branch Office)
Hours of operation	10:00~ 17:30 (closed Wednesdays) Hours of operation are subject to change
Floor area	Total floor area: 157.13 m ² (47.52 tsubo)
Construction	BF (big frame) construction method / Two-story wooden construction

Sumitomo Forestry promotes the Wood Cycle, our value chain of harvesting, processing, utilizing, reusing and replanting trees. We are striving to increase the CO₂ absorption of forests and the use of



wood in buildings and other to store carbon for long periods of time. By promoting the standardization of carbon neutral design, we are contributing to the realization of a sustainable society.