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Sanden Corporation

## Gunma Prefecture Evaluates Energy-Saving Car Air Conditioners with Sensible and Latent Heat Separation Climate Control System Selected for the "Green Innovation Grant"

Sanden Corporation (Head Office: Isesaki City, Gunma Prefecture, hereinafter "Sanden") is pleased to announce that its project titled "Efficiency Improvement of Automotive Air Conditioners through Sensible and Latent Heat Separation Climate Control" has been selected for Gunma Prefecture's FY2025 Green Innovation Grant.

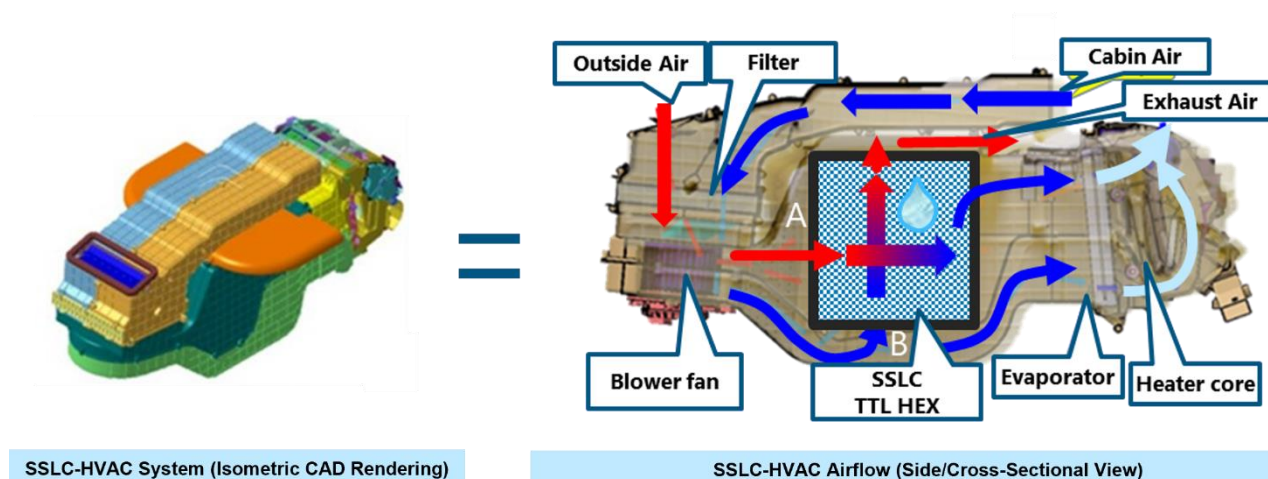
This grant program supports the social implementation of new businesses aimed at achieving carbon neutrality and a circular economy, targeting companies with business sites in Gunma Prefecture or those conducting eligible projects within the prefecture.

### ● Key Points of Selection

The project was selected for its innovative air conditioning technology that achieves both energy savings and occupant comfort.

Sanden's technology reduces thermal load during vehicle air conditioning by approximately 30%, while enabling both power savings and humidity control. As a result, it is expected to cut compressor power consumption by an average of 20% annually. The ability to contribute to a decarbonized society without compromising comfort was highly evaluated, leading to its selection.

### ● What is SSLC (Sensible and Latent Heat Separation Climate Control System)?



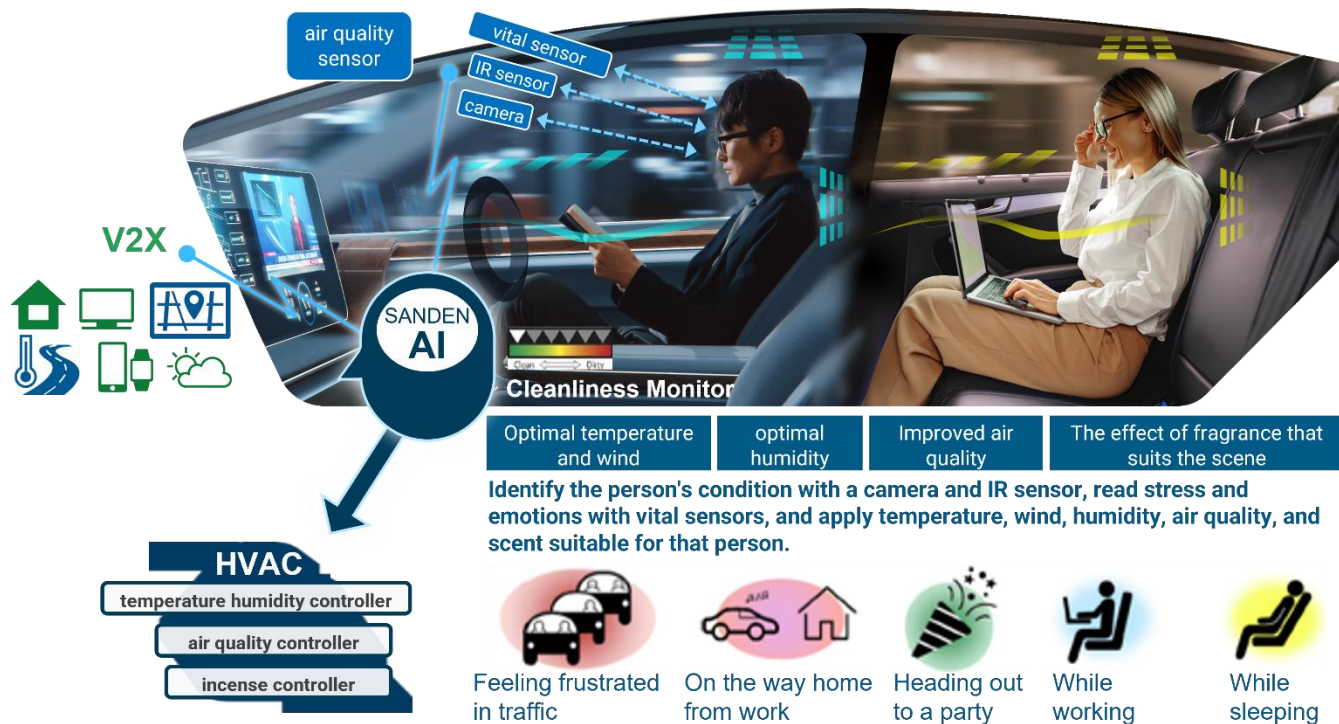
This project introduces a new system—SSLC (Sensible and Latent heat Separation Climate control system)—into the HVAC (Heating, Ventilation and Air Conditioning) unit that manages airflow within vehicles.

SSLC enables independent control of temperature and humidity, unlike conventional air conditioning systems that process both simultaneously, often consuming excess energy. By selectively adjusting only humidity when needed, SSLC significantly improves air conditioning efficiency. This allows for both energy efficiency and a comfortable cabin environment to be realized.

## ● Future Outlook

Encouraged by this selection, Sanden will further advance the precision of its simulation infrastructure and accelerate efforts to quantify the energy-saving effects with greater accuracy.

Under our corporate slogan “INNOVATING COMFORT,” we remain committed to the development of technologies that contribute to decarbonizing mobility, aiming to deliver “Comfortable Solutions” where mobility, people, and the planet are in harmony.



The envisioned future

## [ Reference Links ]

• Sanden's environmental product development initiatives

[https://www.sanden.co.jp/english/environment/environment\\_effort/development.html](https://www.sanden.co.jp/english/environment/environment_effort/development.html)

• Gunma Prefecture “Adoption of FY2025 Green Innovation Subsidy”

<https://www.pref.gunma.jp.e.aag.hp.transer.com/site/houdou/710042.html>

## Contact info for inquiries

Sanden Corporation Administration Division (Public Relations)

Tel : +81-3-5828-5582

Mail : [sdhd.prcsr.jp@g-sanden.com](mailto:sdhd.prcsr.jp@g-sanden.com)

Web : <https://www.sanden.co.jp/english/>