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Orientation effect on thermal and energy performance of vertical greenery systems

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Highlights

- Vertical greenery systems (VGSs) significantly reduced the indoor air temperature of the testing room.
- West-facing VGS showed the highest capacity in wall temperature reduction.
- VGSs reduced the steady-state cooling load of building envelopes by 12% to 42%.
- VGSs could bring notable passive cooling benefits to both outdoor and indoor environments.

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