Energy Savings & Improved Indoor Environment in Relocatable Classrooms

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~100,000 RCs in California, 10,000 new/yr $\,$

onstructed, deployed and monitored four Relocatable
Classrooms

 Demonstrated saving energy and improving Indoor environment quality simultaneously in RCs

Each week, operated one of two HVAC systems

- Standard (heat pump) with intermittent ventilation
- Novel (indirect/direct evaporative cooling and hydronic heating) with continuous ventilation

Findings and implications

- HVAC energy reduced 50% to 70%
- Indoor pollutant concentrations reduced by 60%
- Moves energy efficient HVAC system closer to commercialization

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