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Docket Number:	20-RENEW-01
Project Title:	California Schools Healthy Air, Plumbing, and Efficiency
TN #:	248541
Document Title:	Trane Technologies Comments - CalSHAPE Ventilation Program HVAC Upgrade & Repair Grant
Description:	N/A
Filer:	System
Organization:	Trane Technologies
Submitter Role:	Public
Submission Date:	1/26/2023 11:06:05 AM
Docketed Date:	1/26/2023

Comment Received From: Trane Technologies
Submitted On: 1/26/2023
Docket Number: 20-RENEW-01

CaISHAPE Ventilation Program HVAC Upgrade & Repair Grant

Additional submitted attachment is included below.



January 26th, 2023

Johnathan Fong
California Energy Commission
715 P Street
Sacramento, CA 95814

Dear Mr. Fong,

We appreciate this opportunity to contribute to your ongoing success of the CalSHAPE Ventilation Program. First, we want to endorse all the comments submitted by our colleagues at CASH, CASH Maintenance Network and the School Energy Coalition.

The recommendation we would like to put forward is to allow Hybrid (Dual Fuel) Heat Pump Air Conditioning Units to be used as part of this replacement program. As California moves down the path toward complete electrification of the built environment, we encourage flexibility of options particularly for public schools. As you know they have a somewhat diverse infrastructure and are in every part of our state. Hybrid (Dual Fuel) Heat Pump Air Conditioning Units will help address the following issues:

- Offset or delay possible electrical upgrade costs when going to all electric air conditioning, (Heat Pumps).
- Districts may desire incremental steps and more flexibility in choice of fuels thus providing a more robust, resilient, and sustainable model. Keeping our schools open and functioning is a top priority.
- Technology is in place that will optimize the Hybrid (Dual Fuel) Heat Pump Air Conditioning Units to address concerns of electric grid viability and air quality. Use the back-up fuel mode when electrical power generation is under strain and use the primary electrical mode, Heat Pump mode of the unit when regional air quality is unfavorable.

The transportation sector used the Hybrid/Dual Fuel model successfully and that may be a lesson learned. Our climate is changing, we need multiple tools to adapt and succeed. We look forward to continuing our support of your team.



Sincerely,

Tim Sisson
LEED, AP
Trane Technologies