

Item 9: Advancing Window Retrofits and Reducing Fireplace Air Leaks to Improve Energy Efficiency in Existing Buildings - GFO-22-501

July 26, 2023 Business Meeting

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Energy Research and Development Division
Energy Efficiency Research Branch



Solicitation Overview

- GFO-22-501: Advancing Window Retrofits and Reducing Fireplace Air Leaks to Improve Energy Efficiency in Existing Buildings
 - ➤ Group 1: High-Performance Window Retrofits for Commercial Buildings
 - ➤ Group 2: Strategies to Reduce Fireplace Air Leaks in Residential Buildings
- Funding from:
 - ➤ Gas R&D funding
- Project Funding:
 - > 3 projects
 - > \$2.6 Million

GRANT FUNDING OPPORTUNITY

Advancing Window Retrofits and Reducing Fireplace Air Leaks to Improve Energy Efficiency in Existing Buildings

Gas R&D Program



GEO-22-504

http://www.energy.ca.gov/contracts/index.html

State of California

California Energy Commission

[August] November 2022

(revised



Benefits to Californians

- Reduced heating/cooling loads, GHG emissions, and energy costs
- Improved occupant comfort
- Inform future codes and standards and energy efficiency programs

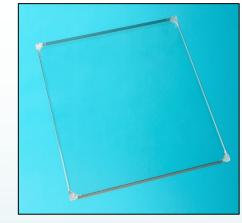


Item 9a: Electric Power Research Institute, Inc.





Freemont Elementary School Source: Bakersfield City School District



Retrofit panel Source: WexEnergy

- Project Location:
 - >2 schools in the Bakersfield
- Funding:

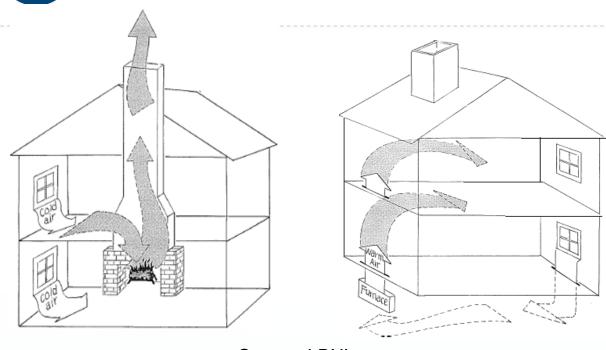
➤CEC: \$1,535,556

➤ Match: \$ 260,000

- Project Focus:
 - Secondary window system by WexEnergy



Item 9b: DNV Energy Insights USA Inc.



Source: LBNL



• Funding:

➤CEC: \$238,160

➤ Match: \$ 16,655

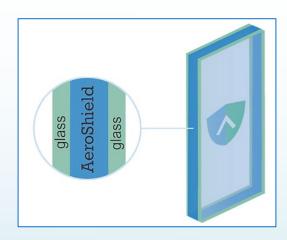
- Study Focus:
 - ➤ Fireplace characterization
 - ➤ Evaluation of air leakage
 - ➤ Evaluation of pollutant infiltration and health impacts
 - > Educational materials



Item 9c: Institute of Gas Technology d.b.a. GTI Energy



Source: Alpen



Source: AeroShield

- Project Location:
 - > Indian Wells
- Funding:

➤CEC: \$864,506

➤ Match: \$775,000

- Project Focus:
 - ➤ Triple-pane thin-glass secondary window system
 - Novel secondary window systems



Staff Recommendation

- Adopt staff's determination that these actions are exempt from CEQA.
- Approve Item 9 for three grant agreements with
 - ➤ Electric Power Research Institute, Inc.
 - ➤ DNV Energy Insights USA, Inc.
 - ➤ Institute of Gas Technology d.b.a. GTI Energy