

DOCKETED	
Docket Number:	19-BSTD-03
Project Title:	2022 Energy Code Pre-Rulemaking
TN #:	235022
Document Title:	Project Green Home Comments on 2022 Energy Pre-Rulemaking
Description:	N/A
Filer:	System
Organization:	Project Green Home
Submitter Role:	Public
Submission Date:	10/5/2020 1:07:55 PM
Docketed Date:	10/5/2020

*Comment Received From: Project Green Home
Submitted On: 10/5/2020
Docket Number: 19-BSTD-03*

Project Green Home Comments on 2022 Energy Pre-Rulemaking

Dear California Energy Commission Commissioners and Staff,

As the founders and inhabitants of Project Green Home, (PGH) we are writing to:
a) Support an all-electric 2020 base code for all new construction and renovation;
b) Invite California Energy Commission (CEC) Commissioners and staff to virtually tour PGH at your convenience, contact SvenThesen@gmail.com to schedule.

Background:

For the past 9 years, we have lived the "all-electric life" in PGH with an induction stove, heat pump water/ space heater, electric dryer, photovoltaic panels electric vehicle and more. In comparing PGH to an equivalent natural gas/ electric (dual fueled) home, my wife, the physician, and myself, a chemical engineer, have determined that that the all-electric life is:

- 1) Safer for us and our children (both for indoor air quality and in reducing the potential for burns);
- 2) Less expensive than the dual-fueled home (both first and ongoing costs);
- 3) More resilient during blackouts and earthquakes
- 4) More convenient and pleasant to use; and
- 5) Has a much lower carbon/energy footprint than the equivalent dual-fueled home.

Given the above economic, health and environmental benefits, and that we are passing the burden of the climate crisis to our children and grandchildren, we urge the CEC to implement an all-electric building code for new construction and renovation.

[1] *Natural gas history: The home was designed in 2008/9 & built 2010/11, when heat pumps, etc. were in the "toddler" adoption stage in the United States. We were concerned that the induction stove, the heat pump, the condensing dryer, all or some, would not work so we plumbed for gas & had a gas connection. As detailed above, it did all did work and so we "cut" the utility gas line in 2013 (& stopped paying the monthly connection fee). Had we avoided natural gas from the beginning, we would have saved ~\$10k in construction and permitting costs.

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Sven Thesen, 415-225-7645
EV Consultant & Founder, ProjectGreenHome.org and BeniSolSolar.com; Wonder Junkie

Electric Cars are Cheaper than Cell Phones! See:
<http://www.projectgreenhome.org/articles.html>

Additional submitted attachment is included below.

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