

**From:** Jonny Kocher <jkocher@rmi.org>

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**Subject:** Health Studies on range hood ventilation of gas stoves/NOx impacts of gas stoves

External Email

Hi Peter,

Thanks for the great questions yesterday during the MVE Committee. I believe you expressed interest in being sent studies regarding the health impacts of NOx and need for differentiated ventilation rates. Here are several studies to get you started. Happy to send more but, as you know, this can become a rabbit hole:

- Nancy shared this policy/best practice brief on reducing pollutants related to cooking via kitchen ventilation.
  - [Reducing Exposure to Cooking Pollutants: Policies and Practices to Improve Air Quality in Homes | Environmental Law Institute \(eli.org\)](#)
- Here are the Title 24 CASE Studies on the research that LBNL did in support of the ventilation rates used:
  - [https://title24stakeholders.com/wp-content/uploads/2020/10/MF-IAQ\\_Final-CASE-Report\\_Statewide-CASE-Team\\_Final.pdf](https://title24stakeholders.com/wp-content/uploads/2020/10/MF-IAQ_Final-CASE-Report_Statewide-CASE-Team_Final.pdf)
  - <https://efiling.energy.ca.gov/getdocument.aspx?tn=236201>
- More research from LBNL on gas stove ventilation rates:
  - <https://eta.lbl.gov/publications/effective-kitchen-ventilation-healthy>
- Here is a study linking increase rates of asthma rates in children with exposure to gas stoves
  - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3686297/>
- Here is a study from the EPA linking short term exposure to NOx to health problems
  - <https://cfpub.epa.gov/ncea/isa/recordisplay>.

Thanks!



Jonny Kocher  
Senior Associate RMI  
Carbon-Free Buildings  
Pronouns: he/him  
[Schedule a meeting with me!](#)

m 619-459-4267  
e [jkocher@rmi.org](mailto:jkocher@rmi.org)  
| 1901 Harrison Street, Suite 200 | Oakland, CA | 94612  
t @jonathankocher



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