**Background**

- Gas cooking appliances exacerbate climate change and pose public health risks by producing major greenhouse gases and other toxins (see fig. 1).
- However, millions of people in America continue to depend on gas appliances for cooking.
- Therefore, further study is needed to understand the low rate of adoption of low or zero cooking appliances.

**Researcable Question**

What are barriers to and recommendations for conversion to low or zero carbon cooking?

**Internship & Methods**

- Interned at the Office of King County Executive Dow Constantine to accelerate the cooking method conversion program by enhancing the understanding of the topic.
- Conducted literature review
- Interviewed experts on missing information
- Produced assessment paper & outreach materials

**Results**

**Barriers**

- **System-Level**
  - High Market Cost
  - Lack of Indoor Air Quality Regulation

- **Institution-Level**
  - Underestimation of GHGs Emissions
  - Media Portrayal

- **Actor-Level**
  - Technological Challenge
  - Financial Burden
  - Cultural Pushbacks
  - Lack of Public Awareness

**Recommendations**

- **Enhanced Funding System**
  - Expand the current rebate systems to accommodate a wider range of audience

- **Indoor Air Quality Regulations**
  - Establish air quality regulations specifically for indoor air quality

- **Home Energy Score Program**
  - Mandatory disclosure of unified energy efficiency rating when listing properties

- **Social Media**
  - Increase civic participation by increasing awareness and introduce available resources

- **Public Library Programs**
  - Launch public loan programs to break knowledge barriers and increase awareness

**Implications**

- Conduct further research on existing barriers using practical methodologies to better reflect real-world challenges
- Take environmental justice into consideration on every step of the way

*You always have to ask - Who might this new program leave out?*  
– interviewee

**Takeaways**

- Identified barriers exist on system, institution, and actor levels (see fig. 2)
- Financial incentives, regulation improvements, and outreach programs (see fig. 3) can help overcome the barriers (see fig. 2)

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