

Project Update: Literature Review for the PSC Wind Siting Council

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Final Products

- **Spreadsheet** containing article information (links, citations, summaries, and tags)
- **Summary document** that contains the summary of each article read
- **Report of the findings** of our literature search and review
- **Recommendations** of next articles to read

Progress Summary

Number of Papers Discussing Each Category

Negative Health Impacts

Positive Health Impacts

Domestic Policy

International Policy

0

10

20

30

40

50

78

papers read,
summarized,
& tagged

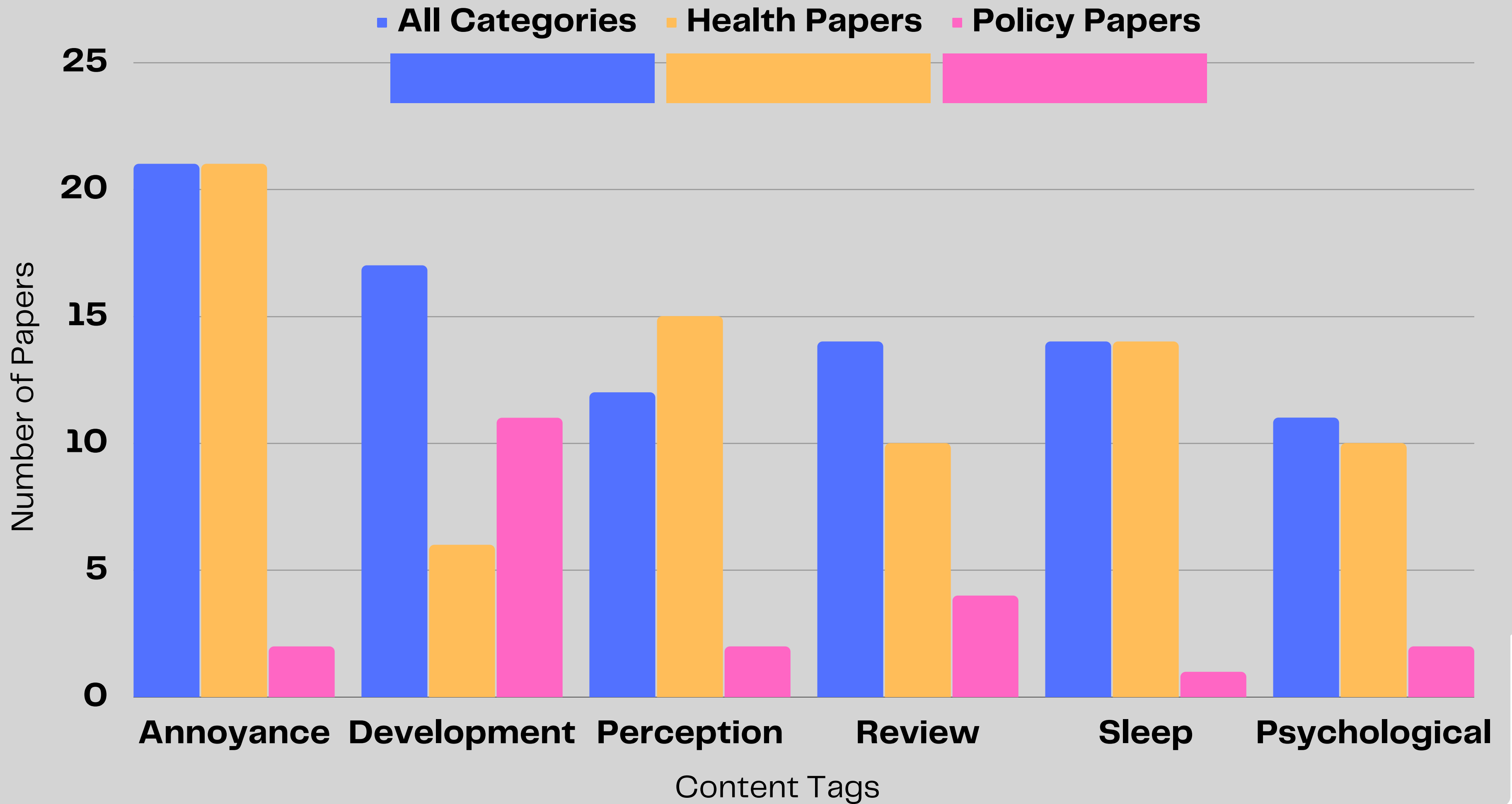
17

additional
relevant
papers
identified

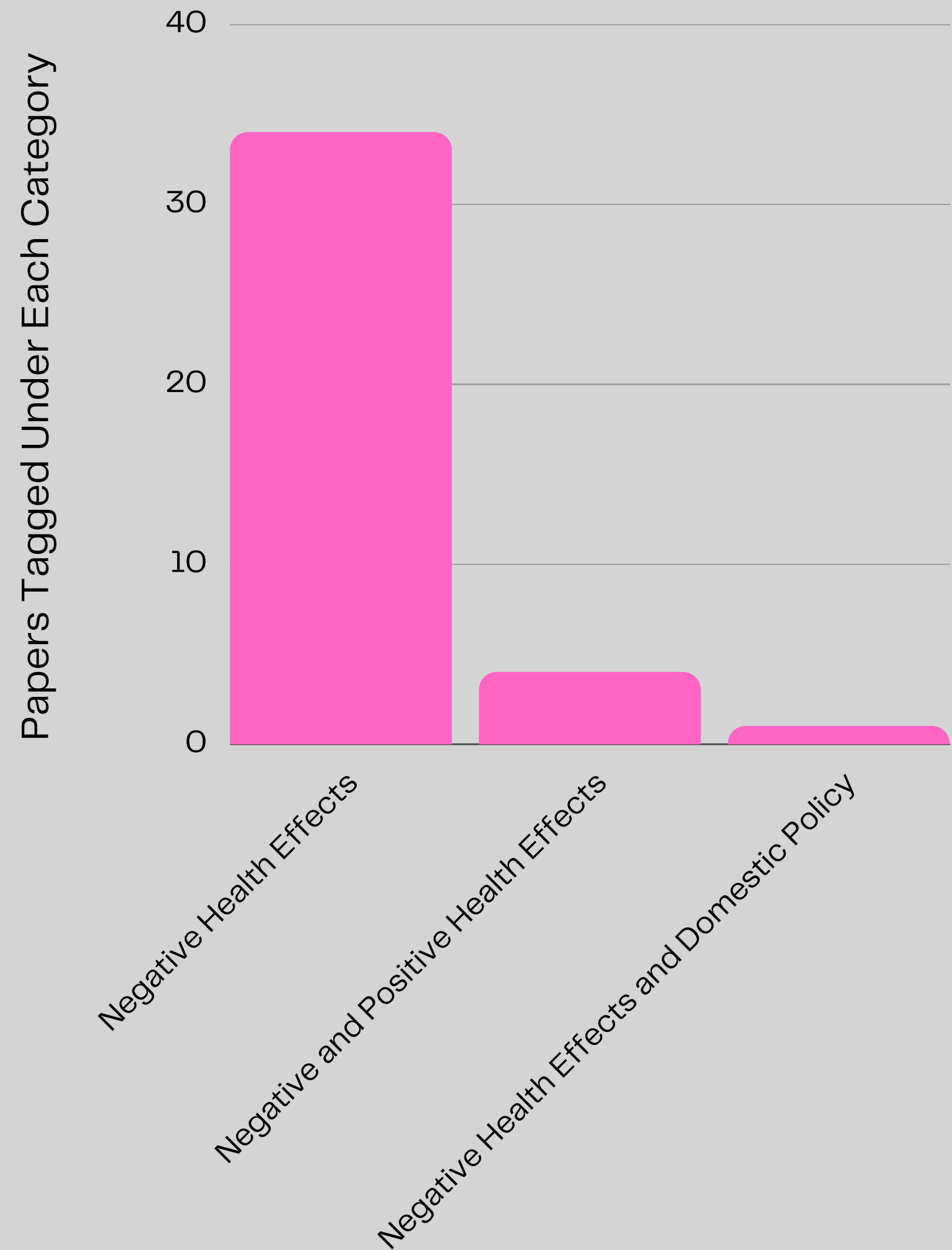
Table 1. Content Tags Assignments Per Paper Category

Content Tags	All Categories	Health Papers	Policy Papers
Acceptance/rejection	5	0	5
Annoyance	21	21	2
Case studies	8	2	6
Concerns	6	3	4
Confounding variables	2	2	0
Development	17	6	11
Emissions	11	11	0
Impact of policy	4	0	4
Infrasound	5	5	0
Low frequency noise	3	3	0
Monetary benefits	9	9	1
Perception	12	15	2
Policy recommendations	4	0	4
Psychological	11	10	2
Review	14	10	4
Safety	1	1	0
Setback	9	6	3
Shadow flicker	5	4	1
Siting process	6	1	7
Sleep	13	14	1
Stress	7	7	0
Visual Impact	3	1	2

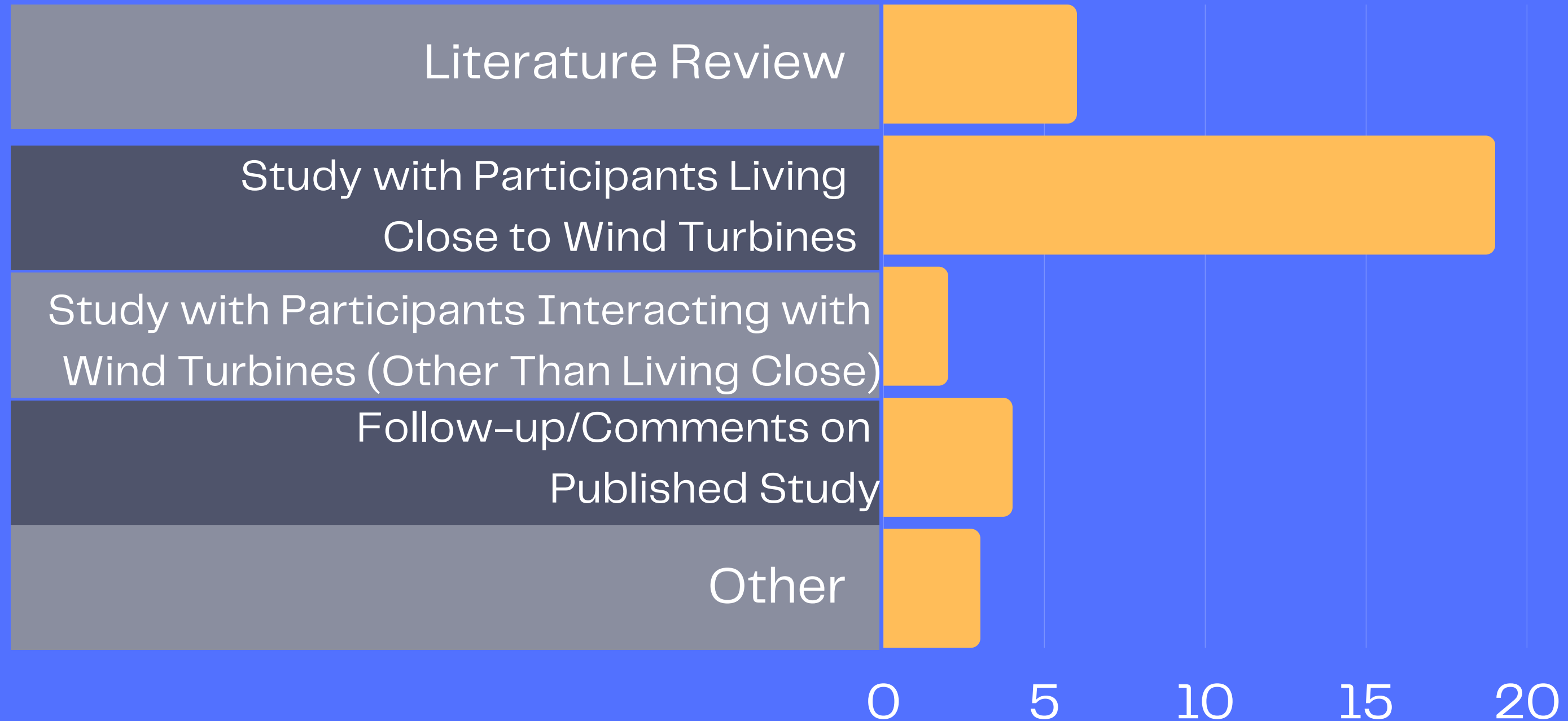
21
content tags
generated



Negative Health Effects Article Summary



Type of Negative Health Effect Study



Studies Investigating Negative Health Effects Main Conclusions Found

No Health Effect
Found

Found a health
effect, (HVR, sleep
disturbance, stress,
physiological
conditions)

Found that there
are other variables
such as attitude,
perceptions of
benefits, property
values, visuals etc.
that are correlated
with symptoms.

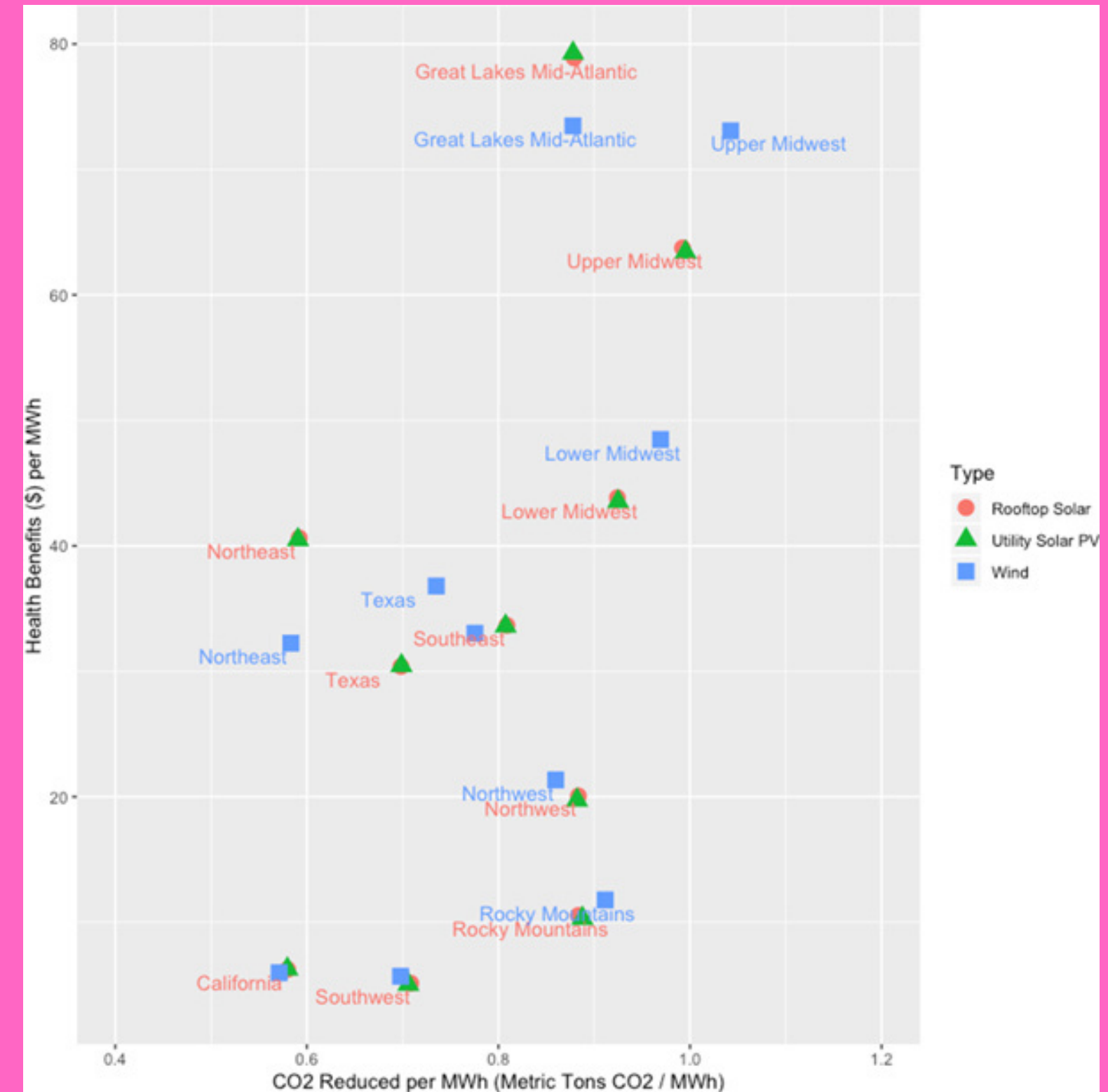
No conclusion due to a gap in
research, or limitations in the
study.

Found that
annoyance from
wind turbines
leads to health
symptoms

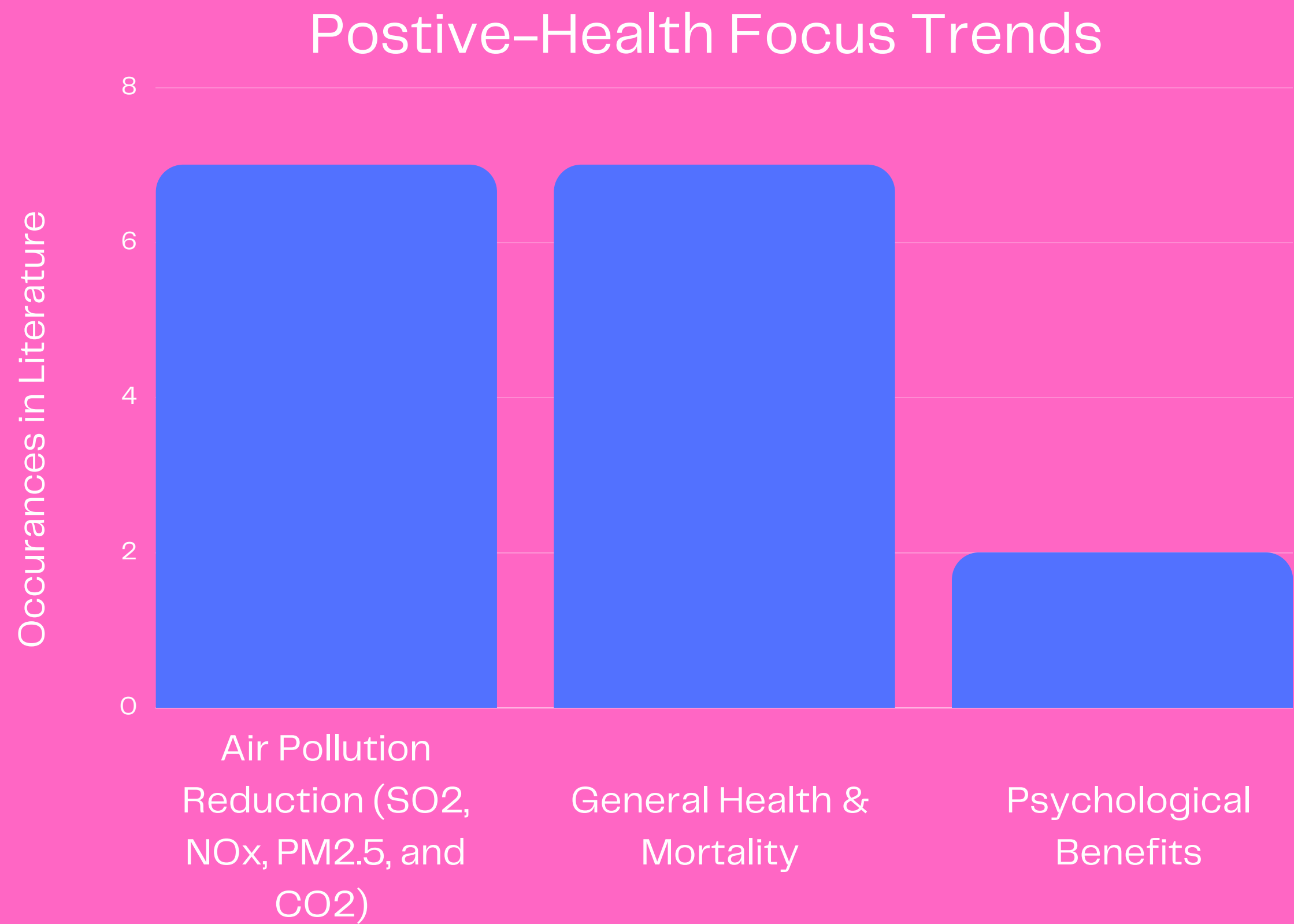
Found annoyance
correlated to wind
turbine noise or
shadow flicker

Positive Health Effects

- 9 papers directly monetized health
 - avoided fossil-fuel impact
 - all report significant net benefits
- Recommendations for diversifying energy generation & highlighting the benefits of wind for health
- All note that increasing wind generation is a net positive for human health



Positive Health Effects Cont.



*One article identified as split-focus & one formally categorized under Positive & Negative

Positive & Negative Health Effects

Papers that split focus on positive and negative effects OR provide supplementary information for positive & negative effects

- ✱ 2 – provide additional information about perceptions of noise
- ✱ 2 – provide additional information on factors that impact the magnitude of health effects
- ✱ 1 – impact of priming on symptoms
- ✱ 1 – life cycle analysis



International and Domestic Policy

Domestic

Annoyance is linked to sound and visual impacts

Acceptance of wind turbines is correlated with socioeconomic impacts and monetary benefits

Perception of Wind

International

Concerns relate to land use, environmental impacts, human well being, & economic impacts

News articles on wind turbines lean negative and vague when discussing health impacts

Acceptance may rely on demographics and policy beliefs

Domestic

State, local, and siting policies have a significant impact on wind development outcomes

Consultation with multiple stakeholders should be a part of the process

Policy Impacts

International

Emphasizes:

Openness in the policy making process and in conflict resolution

Establishing trust in authorities by engaging with community values empowers affected communities

A background image of a wind farm on a grassy hill. Several wind turbines are visible, with the closest ones in the foreground and others further back. The sky is overcast with grey clouds. The overall tone is somewhat dark and moody.

Questions?

Thank you for your attention

