Understanding Socioeconomic systems that result low community access and challenges in energy transformation

1 Introduction and Problem Statement

Estimation of Environmental Justice Index

Background

Problem 1

Problem 2

1.1 Statement

1.2 Consideration

New Criteria

Purpose of Section X

New Criteria Source

Purpose of the Penn...

Penn...

Advanced Pilot Combination Model

2 Energy Justice

2.1 Formulation

Overall Methodology

Estimation of EJ Score

Step 1

Step 2

Step 3

Step 4

Environmental Exposure

Environmental Effects

Sensitive Populations

Socioeconomic Populations

Pollution Burden

Population Characteristics

3 Programs in Eastern Pennsylvania

Programs

3.1 Programs beyond Pennsylvania

Other Programs

Data Source

Ongoing and Future Work

4 Ongoing Work

4.2 Ongoing and Future Work

City Representation

Data Source

New Representation Criteria

Ongoing and Future Work

References

Appendix

A Estimation of Interest for EJ Screening Tool

B Ongoing Activities Beyond Pennsylvania Programs

- Ensuring equitable access to energy transformation for low- and moderate-income (LMI) communities will require a detailed
- Understanding Environmental Justice (EJ) areas' opportunities and challenges in energy transformation
  - 1 Motivation and Problem Statement
    - Definition of Environmental Justice (EJ) Area
      - Background
        - Action under the Background
    - 1.1 Statement
      - Problem 1
        - Actions under the Problems
      - Problem 2
    - 1.2 Considerations
      - New Criteria
        - Action under the New Criteria; Programs
  - 2 Energy Justice Communities, New Policies
    - Purpose of Section 2
      - New Criteria Source
    - PennEnviroScreen
      - Purpose of the PennEnviroScreen
        - EJ Policy
      - Used Units
        - As Smallest
      - Advanced Risk Codification Model
        - 2 Categories Contained
          - Pollution Burden
            - Environmental Exposure
            - Environmental Effects
          - Population Characteristics
            - Sensitive Populations
            - Socioeconomic Populations
          - Components Contained by Each Category
            - Used indicators in Table 1 and 2
              - Spreadsheet with all Indicators and Sources of Data
    - 2.1 Formulation
      - EJ score
        - Overall Methodology
          - Indicators of EJ Score
            - Rationale of Selected Indicators
          - Step 1
            - Dealing with Missing Data
            - High and still Acceptable
          - Step 2
          - Step 3
            - 2.2 Pollution Burden
            - 2.3 Population Characteristics
          - Step 4
            - 2.4 Final Score

- Any block group is an EJ area if its final score percentile is greater than or equal to the 80th percentile.

3 Programs in Eastern Pennsylvania

- Programs

4 Ongoing Work

4.1 Programs beyond Pennsylvania

- Other Programs
- Data Source

4.2 Ongoing and Future Work

- Ongoing and Future Work 1.
- Ongoing and Future Work 2.
  - Old Representative Criteria
    - Summary of Old Representative of Census Block Groups
  - Data Source
  - New Representative Criteria
- Ongoing and Future Work 2.

- References

Appendix

- A Sources of metrics for EJ Screening Tool
- B Programs Available Beyond Pennsylvania; Programs