

Pre-registration template for the CEO experiments

1. Title

Framing support for renewable energy power plants under NIMBY conditions

2. Authors

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3. Brief description / Abstract

Renewable energies can be considered socially desirable for multiple reasons. They help to reduce dependence on fossil fuels and decrease carbon emissions in a context of salient global warming. They also allow gaining autonomy to individuals and polities from an economic and energetic resources point of view. However, renewable energy power plants need to be installed somewhere and this may entail perceived costs in terms of the beauty of the landscape or eventual residues that may fall in the category of “not in my backyard” issues (NIMBY). Public support is crucial for the successful implementation of public policies. This research proposes alternative framings to test changes in public support for the installation of renewable energy power plants within the framework of a survey experiment. Five experimental groups are defined. The variation in the treatments is given by territorial reference point (Catalonia as a whole vs respondent’s municipality) and the primes associated to the installation of such power plant (worsen the quality of the landscape, reduce carbon emissions producing climate change, reduce municipal taxes).

4. Hypotheses

H1: Public support for the installation of renewable energies power plants would be higher if the reference territory is Catalonia as a whole than respondent’s municipality, following the general logic of NIMBY issues.

H2: Public support for the installation of such power plants in Catalonia as a whole would be reduced if a generic prime about the worsen of the landscape quality is embedded in the wording of the question.

H3: Public support for the installation of such power plants in the respondent’s municipality would be increased if a generic prime about the subsequent reduction of carbon emissions provoke climate change is embedded in the wording of the question.

H4: Public support for the installation of such power plants in the respondent’s municipality would be increased if a prime about a subsequent reduction of municipal taxes (we leave open the reason being a compensation or the economic benefit of increasing energy autonomy) is embedded in the wording of the question.

5. Descripció del disseny

Programador/a: dividir la mostra en 5 grups aleatòriament. A cadascun dels grups se li formula només 1 de les 5 preguntes de la P74 a la P78.

74. Fins a quin punt està a favor que s'instal·lin parcs solars o eòlics a Catalunya? Utilitzi una escala de 0 a 10, on 0 és gens a favor i 10 totalment a favor.

(Indicador: ACC_ACORD_PARCS_EO_CAT_0_10)

No llegiu opcions de resposta – Només una resposta

98. No ho sap (No llegiu)

99. No contesta (No llegiu)

75. Fins a quin punt està a favor que s'instal·lin parcs solars o eòlics a prop del seu municipi? Utilitzi una escala de 0 a 10, on 0 és gens a favor i 10 totalment a favor.

(Indicador: ACC_ACORD_PARCS_EO_MUNI_0_10)

No llegiu opcions de resposta – Només una resposta

98. No ho sap (No llegiu)

99. No contesta (No llegiu)

76. Fins a quin punt està a favor que s'instal·lin parcs solars o eòlics a Catalunya encara que això empitjori la qualitat del paisatge? Utilitzi una escala de 0 a 10, on 0 és gens a favor i 10 totalment a favor.

(Indicador: ACC_ACORD_PARCS_EO_CAT_PITJOR_0_10)

No llegiu opcions de resposta – Només una resposta

98. No ho sap (No llegiu)

99. No contesta (No llegiu)

77. Fins a quin punt està a favor que s'instal·lin parcs solars o eòlics a prop del seu municipi si això permet una reducció important en les emissions que provoquen el canvi climàtic? Utilitzi una escala de 0 a 10, on 0 és gens a favor i 10 totalment a favor.

(Indicador: ACC_ACORD_PARCS_EO_MUNI_CANVI_CLI_0_10)

No llegiu opcions de resposta – Només una resposta

98. No ho sap (No llegiu)

99. No contesta (No llegiu)

78. Fins a quin punt està a favor que s'instal·lin parcs solars o eòlics a prop del seu municipi si això permet reduir els impostos municipals que paga? Utilitzi una escala de 0 a 10, en la que 0 és gens a favor i 10 totalment a favor.

(Indicador: ACC_ACORD_PARCS_EO_MUNI_IMPOSTOS_0_10)

No llegiu opcions de resposta – Només una resposta

98. No ho sap (No llegiu)

99. No contesta (No llegiu)

1. Survey data

a. Mode of administration

Face to face interviews

b. Design and size of the sample

Enquesta Òmnibus 28. Random sampling stratified by size of municipality and type of electoral section according to electoral results, with selection of random route clusters for each selected section (n=108). The total sample is 1,200 individuals with legal residence in Catalonia.

2. Power analysis (optional)
3. Variables to manipulate (wording)
4. Other relevant variables of the survey (optional)
5. Manipulation checks (optional)
6. Analysis plan

a. Models

Regression analysis will be used to study treatment effects and eventually adjust for imbalances on observables resulting from the process of random assignment.

Some heterogeneous effects of the treatments across respondent's and respondent's municipality characteristics will be studied. Among the former, age in the form of generation will be considered due to well-documented differing pattern of cohort socialization in the population (e.g. Inglehart 1997). Also income and education will be accounted for due to their connection with preferences in NIMBY situations. Regarding the latter, features of the place of residence of the respondent such as average income, predominant economic sector (e.g. tourism) of the municipality/shire/area will be considered.

b. Tests and criteria (quantities of interest)

The main focus will be on the regression coefficients (sign and magnitude) and its p-values, both in the case of the main effects and the heterogeneous effects.

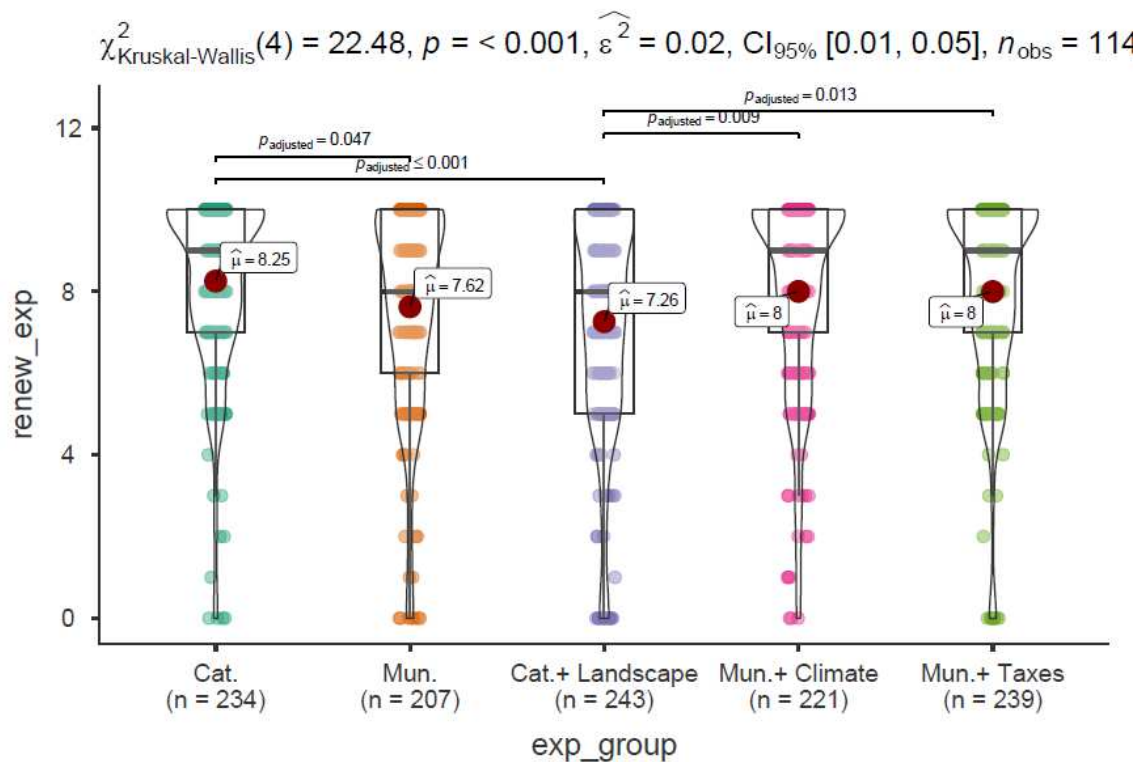
c. Subsamples (optional)

Each of the five subsamples will contain circa 240 individuals.

d. Missing cases (optional)

Listwise deletion will be applied.

Preliminary results



Pairwise comparisons: **Dunn test**; Adjustment (p-value): **Holm**