

# Energy Poverty Conference 2024

## DATE

6<sup>th</sup> November 2024

## VENUE

ESRI, Whitaker Square, Sir John Rogerson's  
Quay,  
Dublin 2



# Demand for Energy Credits among Older People

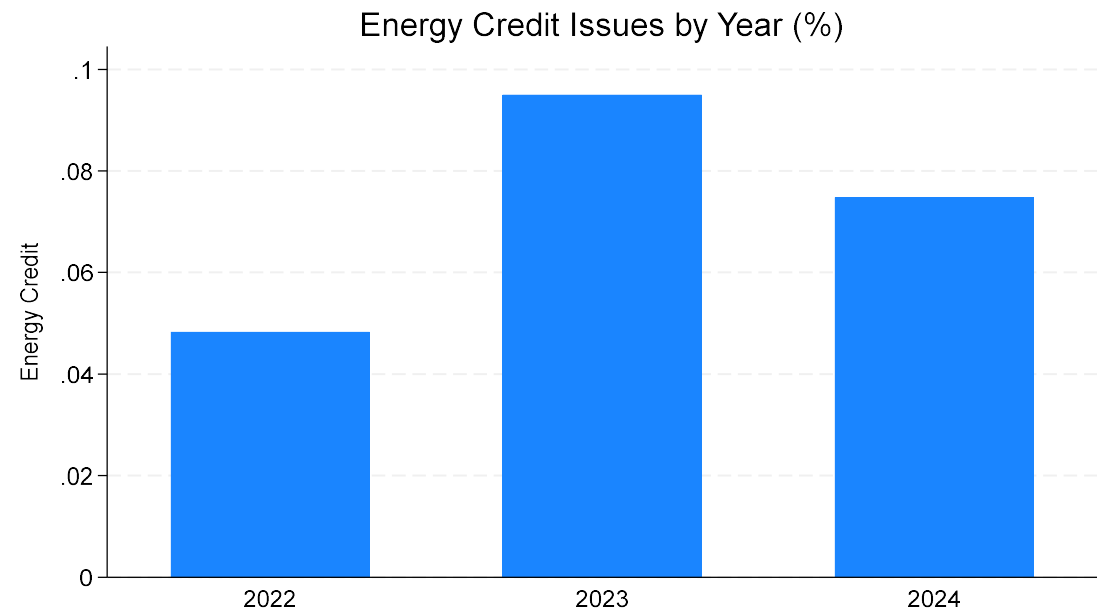
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# The data

Data for 15,000 Alone assessments from 2022-2024

Our main outcome variable

- Energy credit assistance



## The data

Examine the relationship between energy credits and

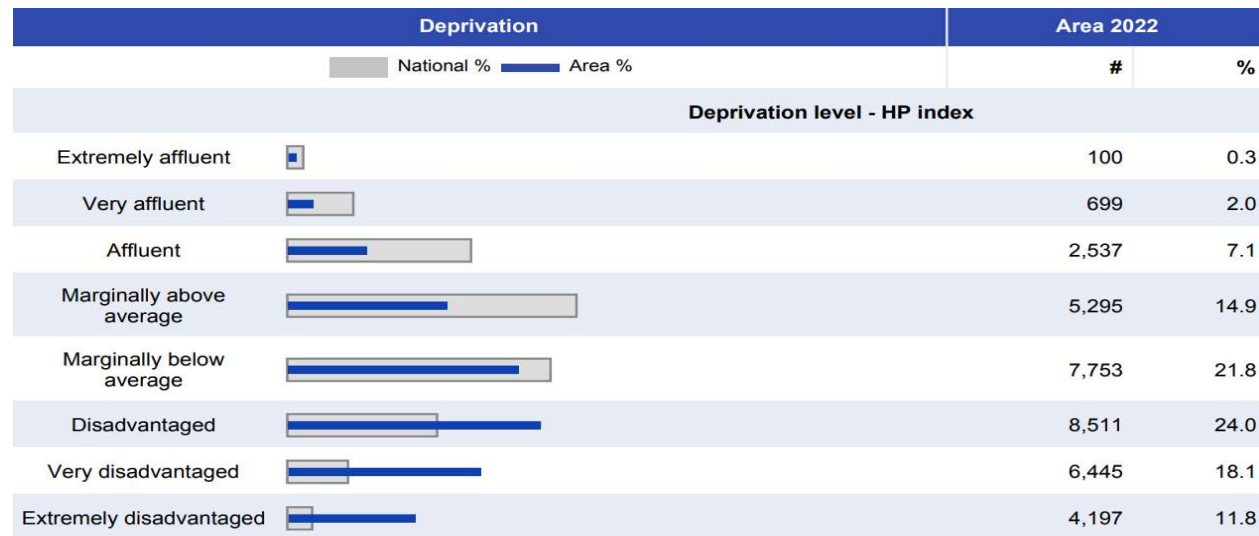
- Areal level deprivation
- Weather (temperature)
- Gender
- Homeownership
- Living alone
- Age
- Condition of the home

# The data

## Areal level deprivation

We link the Alone data to HP Deprivation Index at CHN area

- 97 CHN areas across Ireland
- High disadvantage: area where more than 40% are categorised as disadvantaged



## The data

### Areal level deprivation

Approximately five percent of callers are from an area of high deprivation

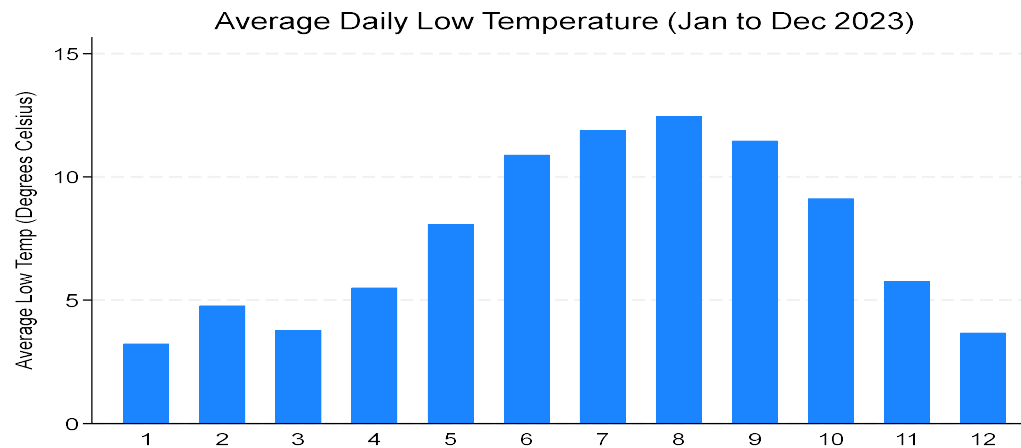
CHN Area	% Disadvantaged
Coolock Area Network	53.9
Clondalkin	45.6
Donegal East	45.3
Ballyfermot and Palmerstown	45
South Limerick City	42.1
Finglas Area Network	40.1

# The data

## Weather

We link the data to daily temperature data from Met Éireann

- Daily minimum temperature
- Linked at CHO level (9 CHOs)
- We calculate the average daily low temperature over the two weeks prior to the assessment date



## Methodology

We implement the following probit model

$$\Pr(\textit{CreditIssue}_i = 1|X) = \Phi(\alpha + X_i'\beta + \sum_{\tau=2}^{202} \theta_{\tau} C_i^{\tau})$$

- Results (next slide) are marginal effects



## Preliminary results

- Being from a **highly deprived area** – 3.5p.p. increase in energy credit need
- **Homeowners** 2.4p.p. less likely to need energy credit
- **Cold weather** – greater need
- People **aged 60-70** appear most at risk
- Those needing **home repairs** are 2.6p.p. more likely to need energy credit

VARIABLES	<u>creditissue</u>
<b>Deprivation</b>	<b>0.035**</b> (0.017)
Female	-0.004 (0.006)
<b>Homeowner</b>	<b>-0.024***</b> (0.008)
Lives alone	0.004 (0.007)
<b>Temperature</b>	<b>-0.005***</b> (0.001)
<u>Age (ref: over 90)</u>	
Under 50	-0.036 (0.043)
Age 51-60	0.079** (0.039)
<b>Age 61-70</b>	<b>0.089***</b> (0.024)
Age 71-80	0.048*** (0.017)
Age 81-90	0.026 (0.017)
<b>Home repairs</b>	<b>0.026**</b> (0.012)
Y1	0.024 (0.018)
Y2	0.058*** (0.009)
Observations	7,996
Standard errors in parentheses	
*** p<0.01, ** p<0.05, * p<0.1	

Thank you  
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