ENERGY MASTER PLAN

Summary 2022

Renewable Electricity

The annual electricity being used in the SEC is approx;

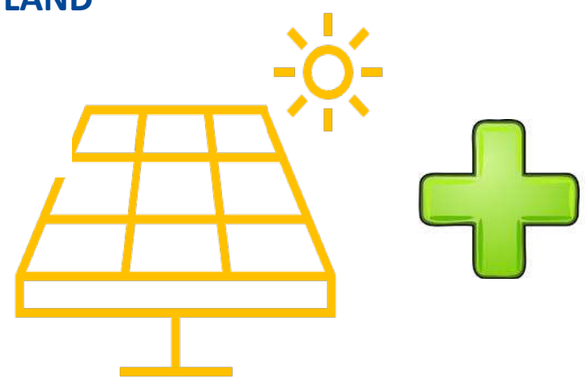
272 million units

A 20% decrease in consumption could be achieved with efficiency measures. Then the remaining demand would be approx;

217 million units

This amount of electricity could be met by developing 2 types of renewable energy project;

248MW OF SOLAR PANELS ON APPROX. 1000 ACRES OF LAND

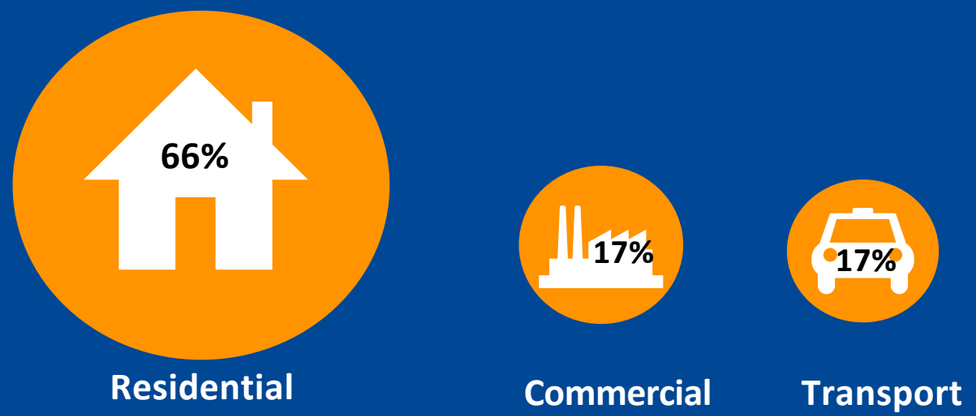


99MW OF WIND TURBINES WHICH WOULD NEED TO BE MORE THAN 800M FROM HOMES

Community energy use in Units of Energy

1 unit of energy = 1 kilowatt hour

SECTOR	ELECTRICITY	FOSSIL FUEL	RENEWABLE	TOTAL
Residential	199.7 million	278.3 million	0.66 million	478.6 million
Non-Residential	72.3 million	50.2 million		122.5 million
Transport	0.19 million	116.5 million	8.1 million	124.7 million
Total Energy	272.28 million	444.9 million	8.7 million	725.9 million



Commercial energy per year

Electricity units	Fossil-thermal units	Emissions (tonnes of CO2)	Spend
72.3 million	50.1 million	49,369	€53,075,475

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Transport energy per year

	Electricity	Fossil Fuels	Renewables	Total
Energy (units)	0.19million	116.5 million	8 million	124.7 million
Emissions (tonnes)	32	29,345	0	29,378
Spend	€22.8k	€15m	€0.97m	€16.1m

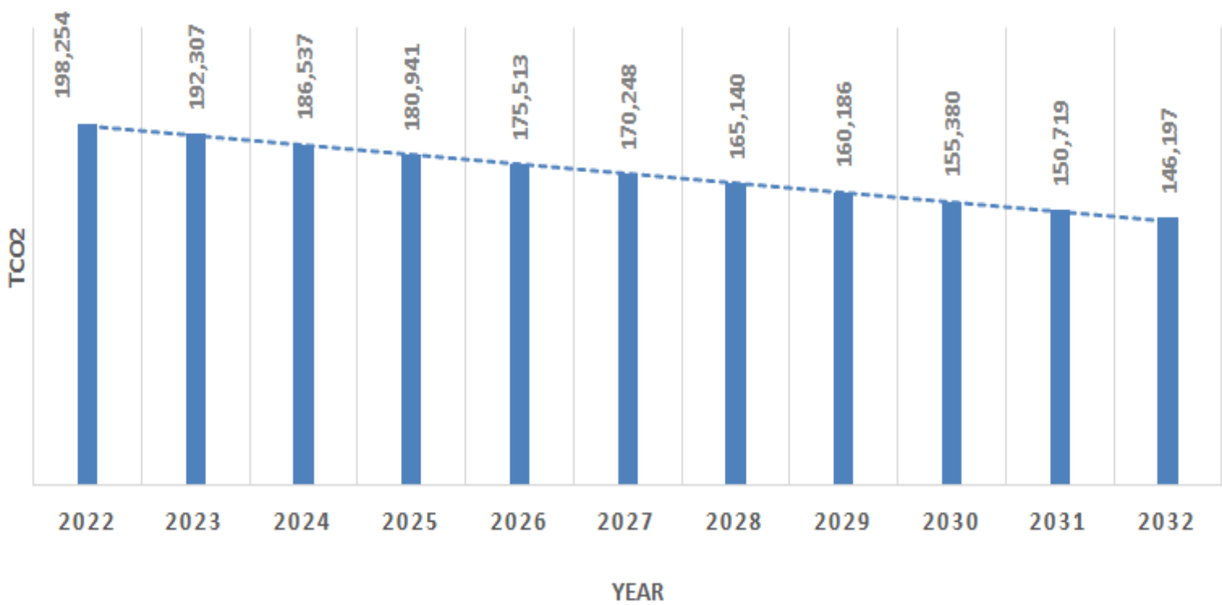
With a 40% increase in Electric Vehicle Usage the SEC could save...

CO_2 7,740

€3.56m

26.4 million

A 3% annual emisions reduction over 10 years in the SEC would look like...



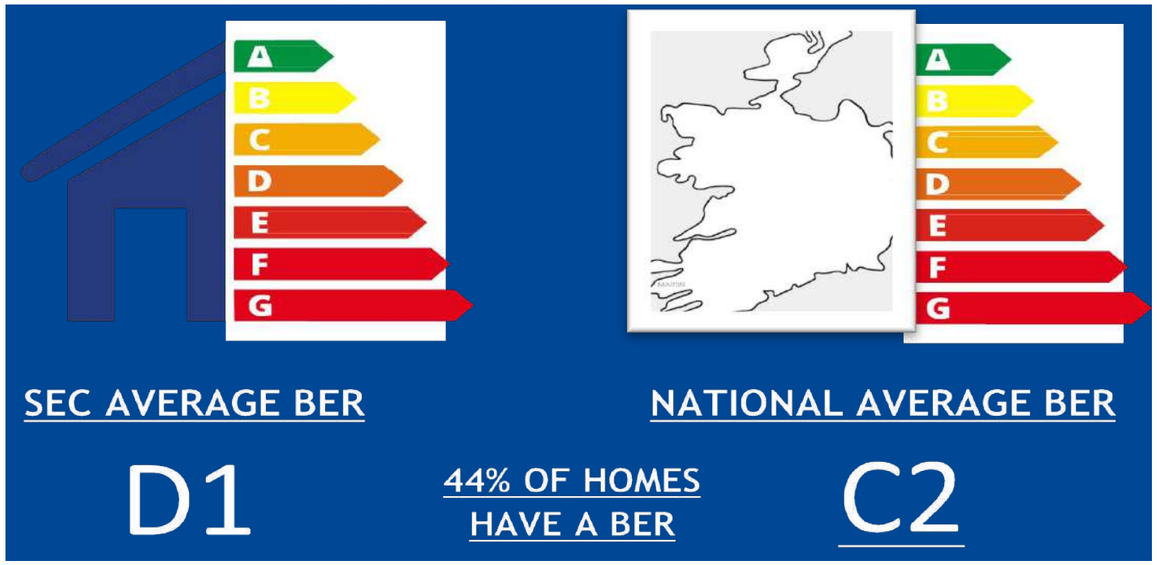
Residential energy per year

ENERGY USE (UNITS)
478.6 MILLION

TOTAL SPEND
€21.6 MILLION

CO2 EMISSIONS (TONNES)
125,622

SEC Building Energy Rating (BER)



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