

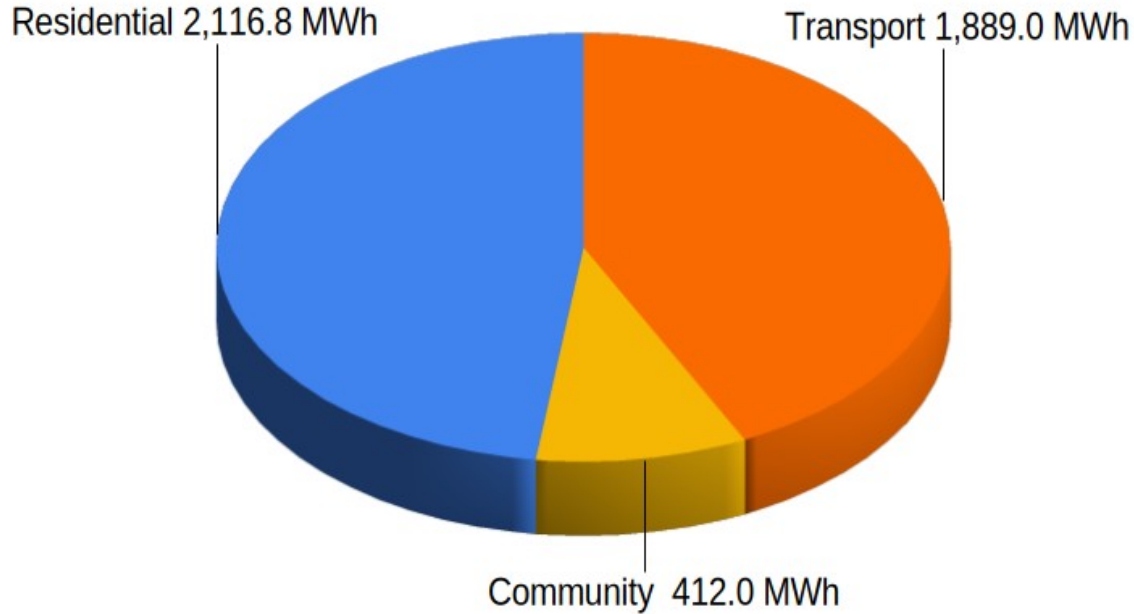
Energy Master Plan for Spanish Point SEC , Co. Clare



The Energy Master Plan for Spanish Point

- **Understand** the current energy usage in your homes and community buildings
- See what we can **improve**
 - Energy Upgrades (++ Efficiency)
 - Renewable Energy
- A plan to reduce energy usage, cost and emissions **by 50% by 2030**
- Funded by [SEAI](#) in the [Sustainable Energy Communities](#) scheme
- See final Energy Master plan at
 - <https://www.clare-energy.ie/SpanishPointSEC>

Where are we today ?

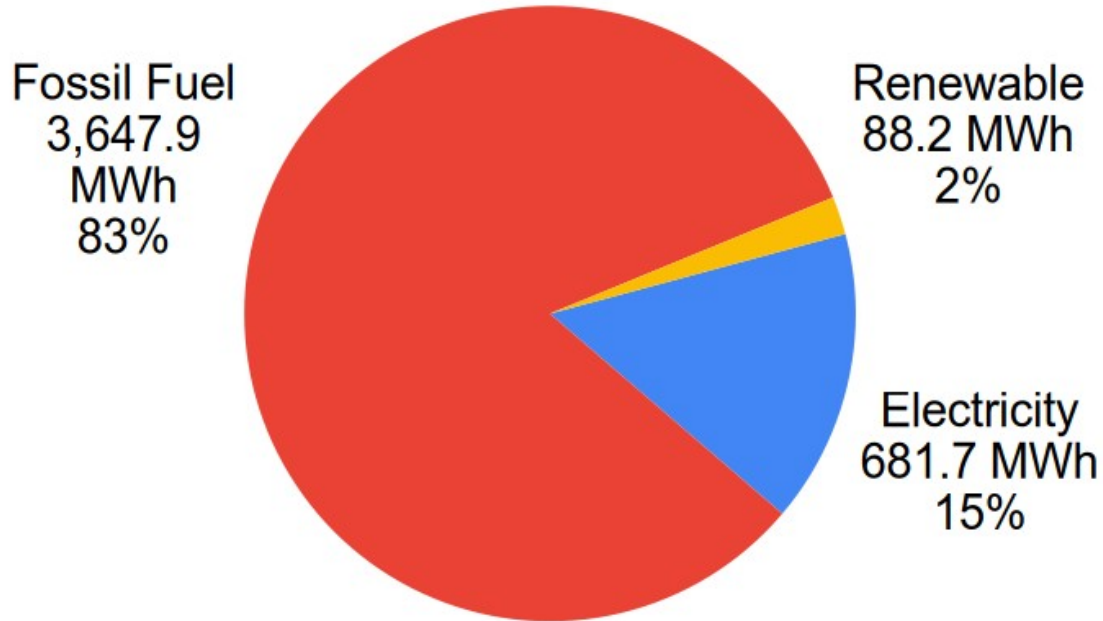


Same energy as ~400 Fuel tanks per year, every year

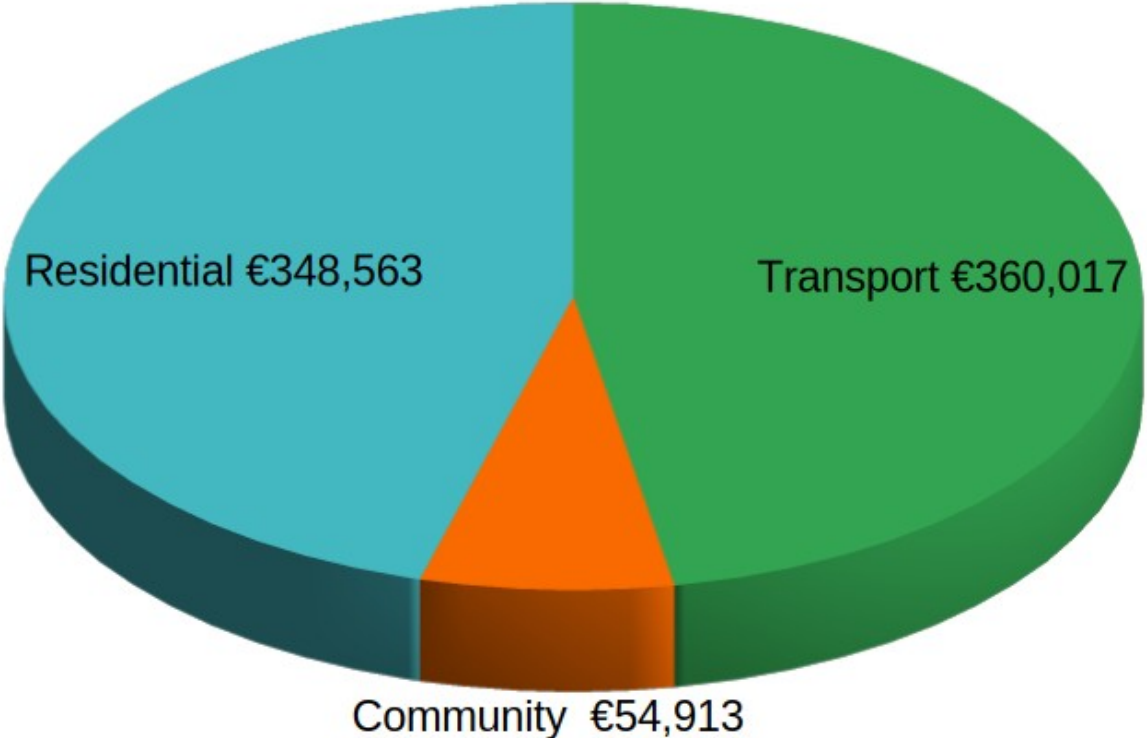


Where is the energy from ?

Current Energy Sources



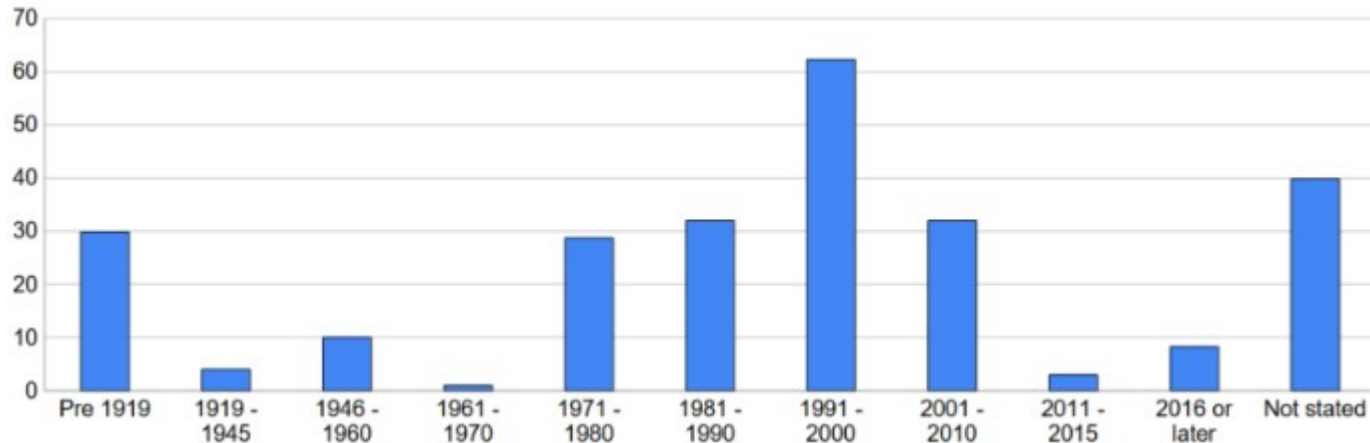
How much is it costing us per year ?



Focussing on the Residential sector

- ~126 permanently occupied homes in the EMP area (Total of 262 homes, high % of holiday homes)
- Oil is by far the most common residential heating fuel (69%)
- 22.3% of houses in the community were built pre-1970
- The average estimated heating and electricity cost is €1936 per year

Age of homes in Spanish Point



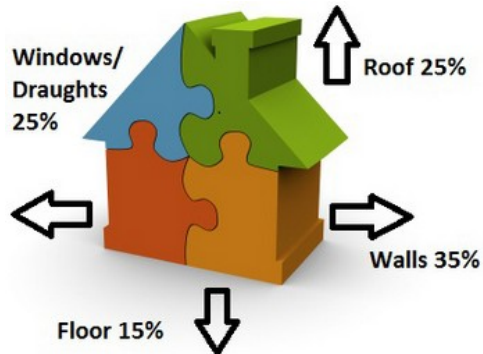
How can the Community play a part ?

- Support the Spanish Point Sustainable Energy Community
- Promoting the SEAI grants/schemes that already exist, spreading info is crucial
- Annual Energy Fair event to highlight progress and potential

1. Insulate

2. Produce your own power

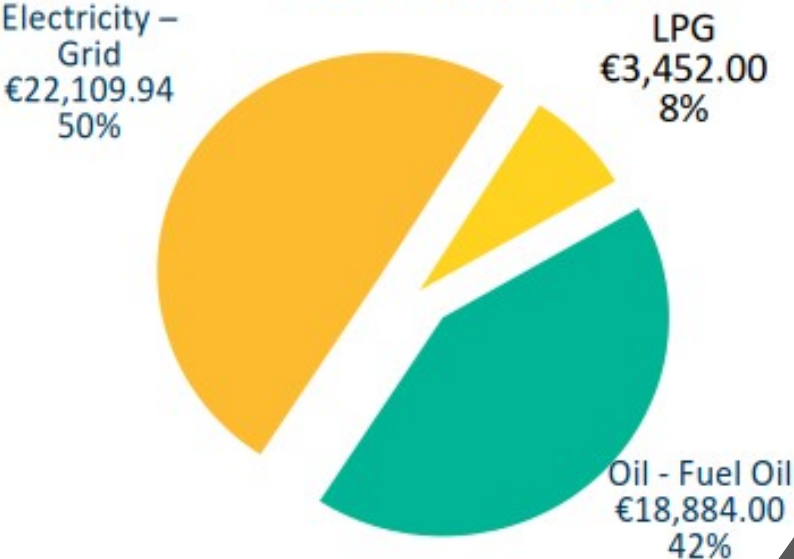
3. Replace Oil with heat pumps



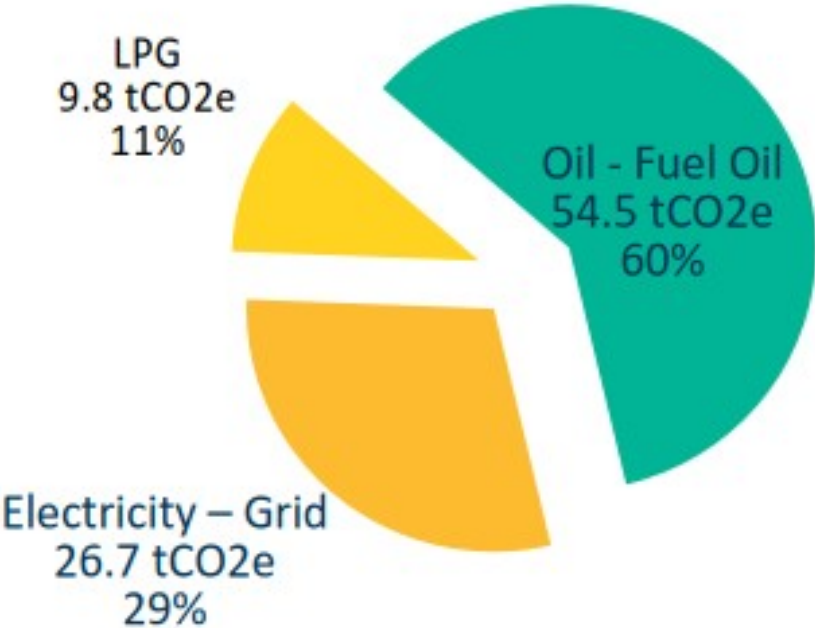
Energy Audits of Community Buildings

School

Costs Breakdown

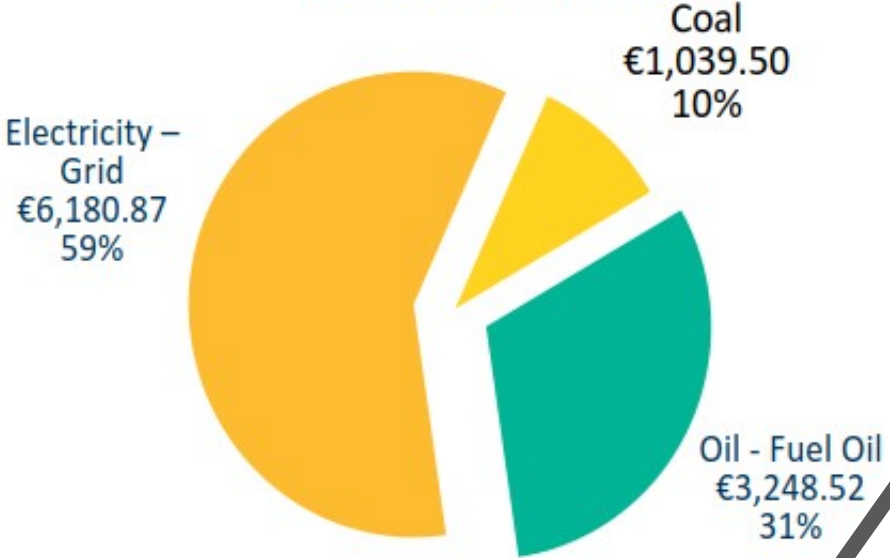


Emissions Breakdown

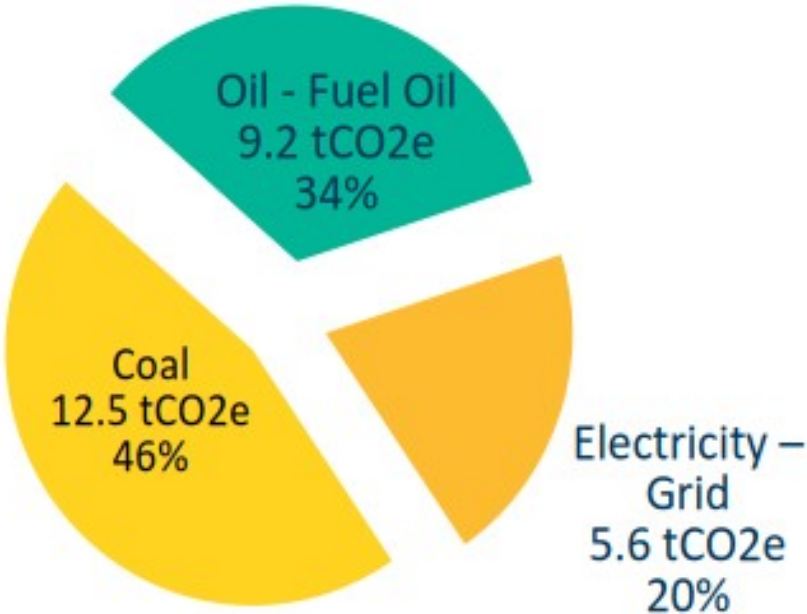


Golf Club

Costs Breakdown



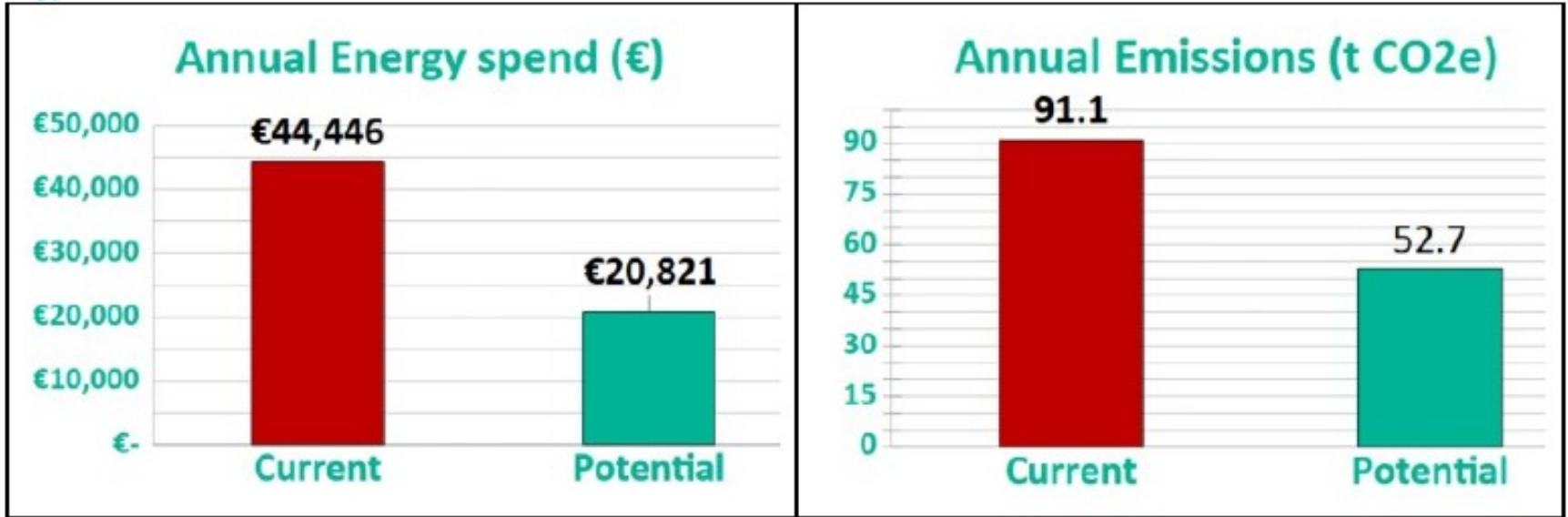
Emissions Breakdown



School Recommendations

Description	Energy saved (€ per year)	Emissions reduction (t CO ₂ e/yr)	Cost of Action (€)	Payback period (years)	First Steps
6 kW Solar PV System	€1,431	1.80	€0	0.0	<u>* Contact Dept of Education</u>
74 kW Solar PV system	€17,166	21.61	€67,600	3.9	<u>* Request Quotes</u> <u>* Apply to SEAI</u>
Cavity pumping of 1978 extension	€1,416	4.09	€7,875	5.6	<u>* Engage with a Project Coordinator</u>
Electricity monitoring	€779	2.67	€500	0.6	<u>* Engage with Clare Energy Agency</u>
Recirculating fans in rooms with high ceilings	€944	2.73	€1,085	1.1	<u>* Engage with a Project Coordinator</u>
Potential for Air To Air heating systems in specific areas	€0	0.00	€0	0.0	<u>* Engage with a Project Coordinator</u>
Dry-lining of all external walls in original school building	€1,888	5.45	€32,000	16.9	<u>* Engage with a Project Coordinator</u>
Total	€23,625.17	38.4 tCO₂e	€109,060	NA	

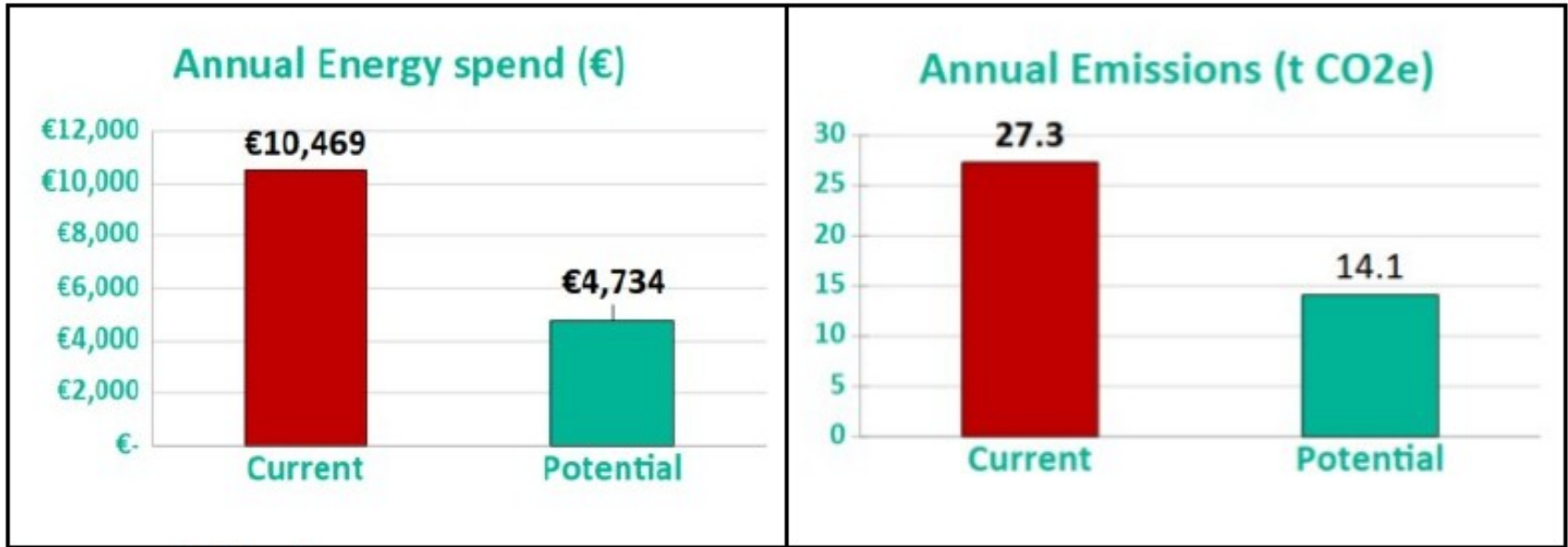
School Targets



Golf Club Recommendations

Description	Energy saved (€ per year)	Emissions reduction (t CO2e per year)	Cost of Action (€)	Payback period (years)	First Steps
18 kW Solar PV system	€4,176	5.26	€19,000	4.6	<u>* Request Quotes</u> <u>* Apply to SEAI</u>
Cavity pumping of all external walls	€325	0.92	€2,100	6.5	<u>* Engage with a Project Coordinator</u>
Improve attic insulation in all areas	€325	0.92	€3,150	9.7	<u>* Engage with a Project Coordinator</u>
Pump the cavity in two internal walls	€162	0.46	€1,085	6.7	<u>* Engage with a Project Coordinator</u>
Coal Stove to replace open fire	€520	6.27	€1,200	2.3	<u>* Engage with a Project Coordinator</u>
Replace inefficient bar equipment	€496	0.56	€1,250	2.5	<u>* Engage with LEO</u>
Improve electricity monitoring	€496	0.56	€375	0.8	<u>* Engage with LEO</u>
Total	€6,499.27	14.9 tCO2e	€28,160	NA	

Golf Club Targets



Other actions for Spanish Point SEC

Sector	Description	Emissions reduction
Residential	Specific focus on Fully Funded Energy Upgrades for energy-poor homes (potentially target of 25 homes, i.e. 10% of homes)	5 tCO2
Residential	Support energy upgrades in 30% of other homes in the EMP area	134 tCO2
Residential	Support the rollout of Solar PV on 30% of domestic homes/farms	119 tCO2
Community	Solar PV roof-installation for Golf Club and School	32 tCO2
Community	Community Solar Project	TBD
Community / Bio-diversity	Community woodland/fruit forest	CO2 sequestration
Community / Agriculture	Farmscale Anaerobic Digestion	128 kgCO2 / cow
Transport	Promoting EV uptake and a Public EV charging point in Spanish Point	See EMP
Transport	Promoting Public Transport in Spanish Point	See EMP