



# Laois Climate Action Plan 2024-2029

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## Appendix I

### Pathfinder Report for Laois County Council

# Laois County Council

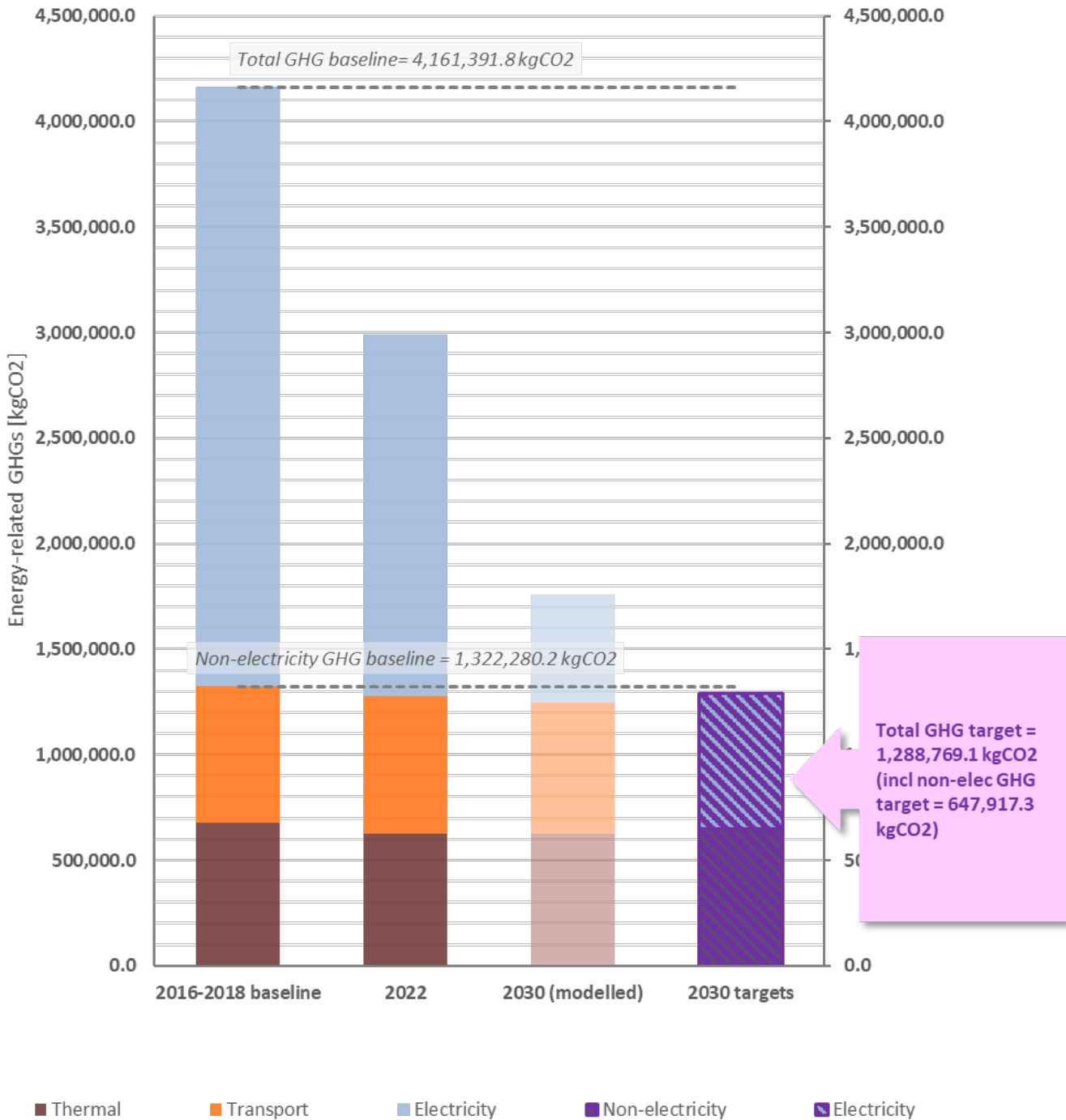
Proposed Project Pipeline Submission to the Pathfinder Programme

This document is a summary of the process and outputs of the development of a robust project pipeline for Laois County Council

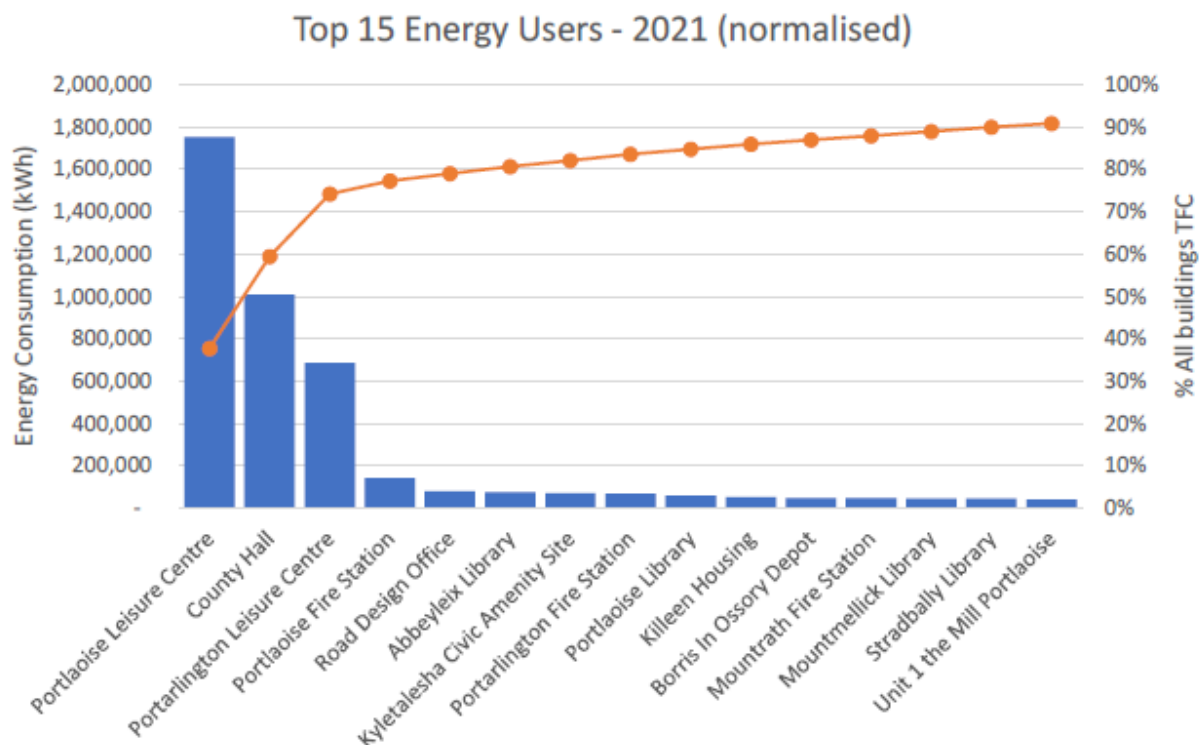




# Current Status 2022



# Pareto Analysis highlighting Significant Energy Users (Buildings)



Top Energy Consumers (Buildings):

- Portlaoise Leisure Centre
- County Hall
- Portarlinton Leisure Centre
- Portlaoise Fire Station
- Road Design Office (Mountrath)
- Abbeyleix Library
- Kyletalesha Civic Amenity Site
- Portarlinton Fire Station
- Portlaoise Library
- Killeen Housing
- Borris In Ossory Depot
- Mountrath Fire Station
- Mountmellick Library

# Project Pipeline

## Audits Completed\*

- Portlaoise Leisure Centre\*
- County Hall\*
- Portarlington Leisure Centre\*
- Portlaoise Fire Station\*
- Road Design Office (Mountrath)
- Abbeyleix Library
- Kyletalesha Civic Amenity Site
- Portarlington Fire Station
- Portlaoise Library
- Killeen Housing
- Borris In Ossory Depot
- Mountrath Fire Station
- Mountmellick Library\*

## Laois County Council Proposed projects for initial round of Pathfinder

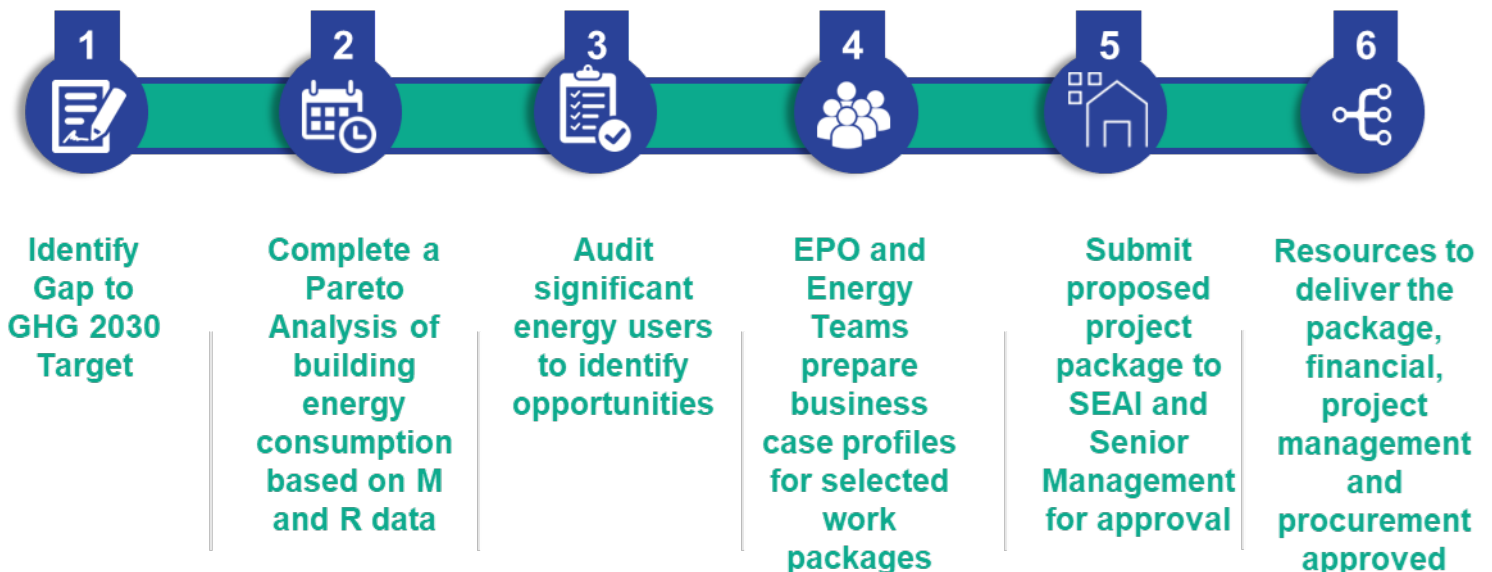
Leisure Centres are currently excluded until more guidance is available on funding boundaries.

1. Portlaoise Leisure Centre
2. County Hall
3. Portarlington Leisure Centre
4. Portlaoise Fire Station\*
5. Road Design Offices (Mountrath)
6. Rathdowney Library\*
7. St Mary's Sports Hall
8. Portlaoise Library

Rathdowney Library (included as this requires heating system and fabric upgrades and the solution will be scalable to older smaller library buildings, both within the 5 LAs in the MEA and nationally.

## Local Authority project pipeline process

SEAI Position Paper and Memorandum of Understanding for Pathfinder Programme Support



# Estimated Costs



Building	Thermal Upgrades savings (kWh)	Electrical Upgrades savings (kWh)	Emissions Reduction (thermal) KgCO2	Emissions Reduction (Elec)*KgCO2	Total Estimated Cost (€)
Portlaoise Leisure Centre	100,6100	70,800	259,908	8,146	679,350
County Hall	240,632	88,450	240,632	6,269	1,650,300
Portarlington Leisure Centre	166,000	79,600	60,644	5,982	400,450
Portlaoise fire station (Heat Pump)	71,000	-35,500	21,805	-3,128	N/A
Rathdowney Library	-	27,803	-	2,722	3,400
Solar PV County Hall Solar PV €101,400 Portlaoise Leisure Centre 100kW Peak circa 260 PV panels (Subject to de-commission of CHP) €105,000 Portlaoise Library- Install 54 panels€ €32,400	-	-	-	17,552	238,900
<b>Total</b>	<b>1,483,732</b>	<b>231,153</b>	<b>582,989</b>	<b>19,991</b>	<b>2,972,400</b>

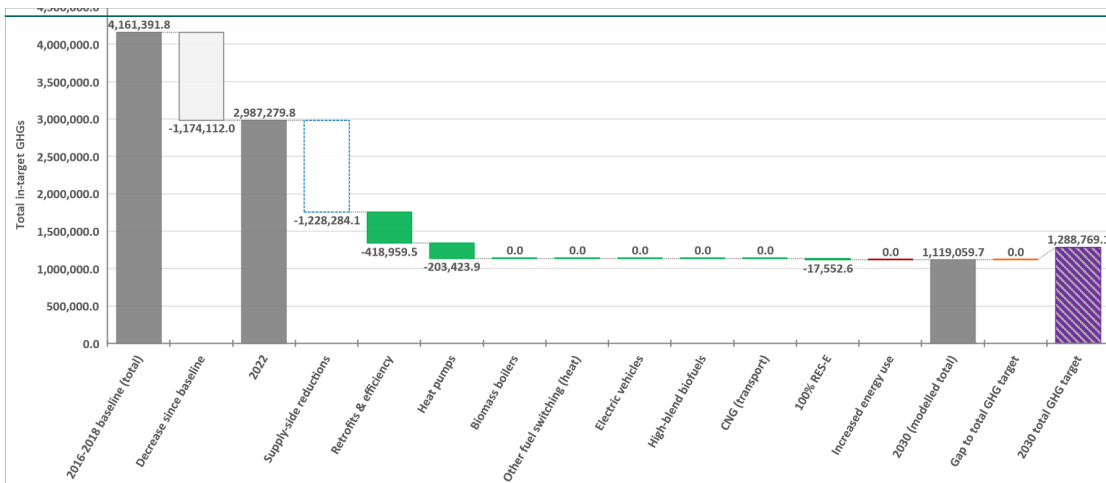
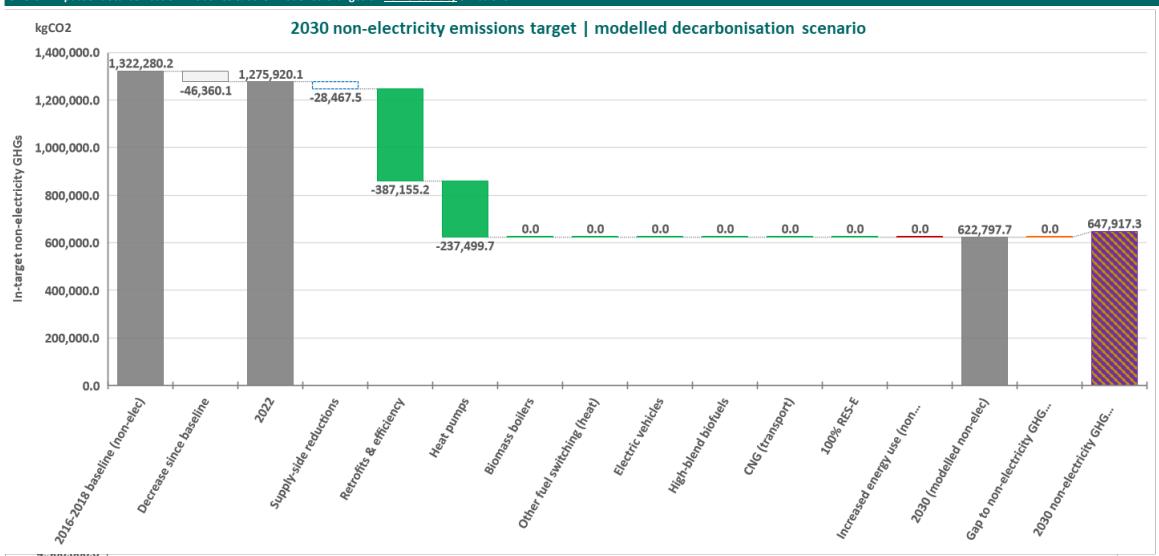
\*Calculated on 2030 predicted value of 0.097 Kg/KWh used as the basis of GTT

# Emissions Gap to Target

Savings due to projects identified in the 6 of the 8 buildings buildings proposed for pathfinder where there are existing energy audits- This is estimated to save approx. 640TCO2

GHG-S.1 2030 emissions targets		In-target non-electricity emissions	In-target electricity emissions	Total in-target emissions
<b>Progress since GHG baseline</b>				
2016-2018 baseline	[kgCO2]	1,322,280.2	2,839,111.6	4,161,391.8
Change since baseline	[kgCO2]	-46,360.1	-1,127,751.9	-1,174,112.0
2022	[kgCO2]	1,275,920.1	1,711,359.7	2,987,279.8
<b>Impact of decarbonisation initiatives &amp; other modelled changes 2022-2030</b>				
Supply-side reductions	[kgCO2]	-28,467.5	-1,199,816.6	-1,228,284.1
Retrofits & efficiency	[kgCO2]	-387,155.2	-31,804.3	-418,959.5
Heat pumps	[kgCO2]	-237,499.7	34,075.7	-203,423.9
Biomass boilers	[kgCO2]	0.0	0.0	0.0
Other fuel switching (heat)	[kgCO2]	0.0	0.0	0.0
Electric vehicles	[kgCO2]	0.0	0.0	0.0
High-blend biofuels	[kgCO2]	0.0	0.0	0.0
CNG (transport)	[kgCO2]	0.0	0.0	0.0
100% RES-E	[kgCO2]	0.0	-17,552.6	-17,552.6
Increased energy use	[kgCO2]	0.0	0.0	0.0
Total modelled changes	[kgCO2]	-653,122.4	-1,215,097.8	-1,868,220.1
<b>2030 &amp; gap to target</b>				
2030 modelled emissions	[kgCO2]	622,797.7	496,261.9	1,119,059.7
Gap to targets in 2030	[kgCO2]	0.0		0.0
<b>2030 targets</b>	<b>[kgCO2]</b>	<b>647,917.3</b>		<b>1,288,769.1</b>

GHG-S.2 Impact of decarbonisation initiatives & other modelled changes on non-electricity emissions





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