

Interim **SUSTAINABLE ENERGY AND CLIMATE ACTION PLAN 2022-2023**



CONTENTS

1. Introduction	3
Background	4
2. Stakeholders	5
2.1. Tipperary County Council Environment & Climate Action	5
2.2. Tipperary County Council Planning Section	5
2.3. Tipperary County Council Community and Economic Development Unit	5
2.4. Tipperary Energy Agency	5
2.5. Teagasc	5
2.6. North Tipperary Development Company (NTDC) (Formerly North Tipperary Leader Partnership (NTLP))	5
2.7. South Tipperary Development Company (STDC)	6
2.8. Local Enterprise Office Tipperary (LEO Tipperary)	6
2.9. Technological University of the Shannon: Midlands Midwest (TUS)	6
2.10. Public Participation Network (PPN)	6
3. Actions	7
3.1. Communities	7
3.2. Local Authority	8
3.3. Residential	8
3.4. SME Sector	9
3.5. Agriculture & Food	9
3.6. Transport	10
3.7. Education, Research and Development	10

1. INTRODUCTION

In 2017 Tipperary's Sustainable Energy Action Plan (SEAP) 2017-2020 was formally adopted by Tipperary County Council. The SEAP was created following Tipperary's commitment to The Covenant of Mayors in 2015, Europe's largest movement for local climate and energy actions. The plan provided an in-depth overview of the County's CO₂ emission statistics and a commitment to the implementation of 32 actions to improve energy efficiency and increase renewable deployment in Tipperary, hence reducing the County's CO₂ emissions. The SEAP was an official recognition by County Tipperary regarding its responsibility to improve the environmental standards associated with its jurisdiction and outlined a detailed action-by-action synopsis of how this may be achieved. The aim of the SEAP was to generate actions which would reduce Tipperary's emissions by 30% from the 2005 baseline year.

Following on from Tipperary's Sustainable Energy

Action Plan 2017-2020, Tipperary are now developing an interim '**Sustainable Energy and Climate Action Plan (SECAP) 2022-2023**'. This will be based on the new Covenant of Mayors targets. However, Local Authorities are now mandated to create a county wide Climate Action Plan under the National Climate Action Plan and Climate Action Bill. Hence this interim SECAP will inform the Tipperary Climate Action Plan when additional guidelines become available from the Department. Each Local Authority will reduce their own CO₂ emissions by 51% by 2030 and become carbon neutral by 2050. It is unclear if there will be a county-wide emissions target included in the new guidelines.

This Interim SECAP will build upon the successes of the SEAP and continue to work with citizens, community groups, local businesses, and public sector organisations in Tipperary to ensure energy efficiency and decarbonization actions are prioritised.

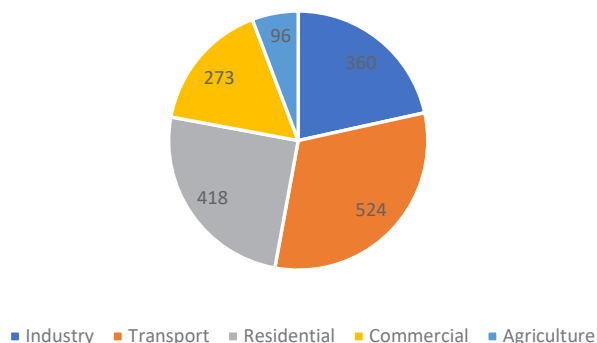


Brian and Seamus O Slatarra, Agritech, Nenagh

BACKGROUND

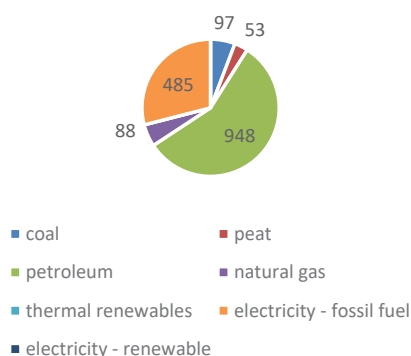
As a reminder, the baseline (2005) CO₂ emissions by sector in County Tipperary is made up of the following sectors – Industry, Transport, Residential, Commercial and Agriculture – in the following proportions:

Baseline: kt of CO₂, by Sector



In total, in 2005, Co. Tipperary emitted 1,671kT CO₂ emissions with Transport (31%) and Residential (25%) being the largest sectors for CO₂ emissions in the County. Hence, it is important that the SECAP focuses on supporting the citizens of Tipperary to decarbonise their homes and their modes of transport.

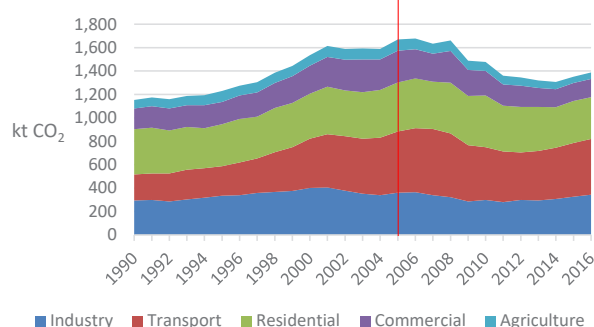
Baseline: kt of CO₂, by Fuel Type



As outlined above, the energy sources consumed in County Tipperary in 2005 were 57% petroleum/oil and 29% grid electricity with high carbon content 635g/kWh (SEAI, 2005).

This data is extracted from statistics collected in the Central Statistics Office's census programme. Unfortunately, due to COVID, the planned census of 2020 was postponed and so the most recent census data is that of 2016. Hence for this Interim SECAP, the impact since the baseline can be monitored up to the year 2016.

Sector by Sector Consumption

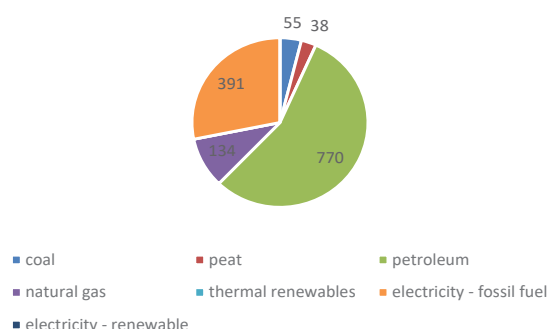


The red vertical line represents the baseline year (2005) of the original SEAP. This graph illustrates the reduction of CO₂ in Tipperary from 2005 – 2016. The overall net change is a reduction of 17%. However, the remit of the Covenant of Mayors, the SEAP and the Stakeholders involved excludes the impact of Industry on CO₂ emissions. If one interrogates the trend in the data at sector level, the following table illustrates the % change in CO₂ by sector:

Sector	2005 kTCO ₂	2016 kTCO ₂	% Change
Industry	360	344	-4%
Transport	524	475	-9%
Residential	418	358	-14%
Commercial	273	154	-43%
Agriculture	96	56	-42%

Hence, the sectors which were a focus of the original SEAP, i.e. Residential, Commercial and Agriculture reduced by on average 33%.

2016: kt of CO₂, by fuel type



The total kTCO₂ emissions in County Tipperary has dropped from 1,671kTCO₂ in 2005 to 1,387kTCO₂ in 2016. Natural gas consumption has increased in the County by 52%. The use of coal, peat and oil/petroleum has reduced by on average 30%. The carbon content of grid electricity has reduced by 19% with a carbon content of 437gCO₂/kWh in 2016. (The most recent statistics indicate that the carbon content of electricity was only 296gCO₂/kWh in 2020, so this will have a positive impact on the County's CO₂ emissions when the next set of Census data becomes available).

2. STAKEHOLDERS

All stakeholders who were part of Tipperary's Sustainable Energy Action Plan (SEAP) 2017-2020 have once again signed up to be part of the Interim SECAP 2022-2023 and will remain as stakeholders when the mandated county-wide Climate Action Plan is being developed.

These stakeholders are:

2.1. TIPPERARY COUNTY COUNCIL ENVIRONMENT & CLIMATE ACTION SECTION

Tipperary County Council Environment Section contributes to the National Climate Change Adaptation framework by developing a Climate Adaptation Strategy, tailored to addressing the impact of climate change adaptations on the local environment and communities. As a signatory to the Covenant of Mayors, the Environment Section will adopt an integrated approach to climate change mitigation and adaptation. While climate change is the common goal, climate adaptation addresses the impacts of climate change and climate mitigation examines the causes of climate change.

2.2. TIPPERARY COUNTY COUNCIL PLANNING SECTION

The main function of the Tipperary County Council Planning Section is to promote and facilitate the deployment of sustainable communities and enterprise and to ensure the protection of the heritage and amenity of the county. The development of a strong renewable energy sector is highly dependent on a functioning and well-informed planning authority.

2.3. TIPPERARY COUNTY COUNCIL COMMUNITY AND ECONOMIC DEVELOPMENT UNIT

The Tipperary County Council Community and Economic Development unit works in conjunction with LEO Tipperary and is tasked with the deployment of the Regional Action Plan for jobs. This body is primarily concerned with encouraging economic development and enhancing the wellbeing and quality of life of

the community in Tipperary by actively encouraging entrepreneurship, community development and social cohesion.

2.4. TIPPERARY ENERGY AGENCY

Tipperary Energy Agency is an independent social enterprise that focusses on driving the energy transition through the provision of expertise, innovation, and strong customer service. Their mission is to lead the delivery of sustainable energy solutions in Tipperary and beyond, by advocating, educating and innovating on climate action. Their vision is that all communities, businesses and citizens participate in the energy transition and achieve carbon neutrality.

2.5. TEAGASC

Teagasc is the agriculture and food development authority of Ireland and is thus a prominent organization in Irish agriculture. It is a diverse institution which provides several key services to the agricultural industry including training programmes, research and development, informative seminars and in-depth policy analysis. Teagasc also serves to raise awareness among the farming community of the importance of incorporating environmentally conscious practices into their business model.

2.6. NORTH TIPPERARY DEVELOPMENT COMPANY (NTDC) (FORMERLY NORTH TIPPERARY LEADER PARTNERSHIP (NTLP))

NTDC is a non-profit organization dedicated to delivering a range of rural enterprise, social inclusion, and community development initiatives in County Tipperary.

This institution was established in 2009 and is responsible for implementing programmes and services on behalf of the state including the Better Energy Communities (BEC) programme.

NTDC is prominent in the promotion of energy in Tipperary as they take the role of project leader for the BEC programme funding in Tipperary.

2. STAKEHOLDERS

2.7. SOUTH TIPPERARY DEVELOPMENT COMPANY (STDC)

STDC is a local development company that has successfully delivered rural development and social inclusion programmes in South Tipperary since 2009 including LEADER and SICAP.

STDC offers support to a wide range of individuals and groups within the county including jobseekers, small businesses, community groups, children, and families.

2.8. LOCAL ENTERPRISE OFFICE TIPPERARY (LEO TIPPERARY)

The Local Enterprise Office Tipperary acts as a "First Stop Shop" for anyone seeking information and support for starting or growing a business in Tipperary.

LEO Tipperary supports business start-ups and works to increase the job creation potential of new and existing micro and small businesses through the provision of information, advice, training, mentoring, seminars, and grants in Tipperary.

LEO Tipperary has a strong influence over how small and medium businesses in county Tipperary operate. LEO Tipperary's role is to inform these businesses of the economic advantages of energy efficiency.

2.9. TECHNOLOGICAL UNIVERSITY OF THE SHANNON: MIDLANDS MIDWEST (TUS)

TUS is Ireland's newest technological university and is home to more than 14,000 students across six campuses in Athlone, Limerick, Thurles, Clonmel, and Ennis. TUS currently offers programmes such as environmental and analytical science and energy management with plans to further expand the number of courses tailored to the environmental sciences. Ireland's transition to a low carbon society will require an appropriately educated work force as well as specific R&D thus the importance of its Third Level institutions being involved in the sustainability agenda cannot be understated.

2.10. PUBLIC PARTICIPATION NETWORK (PPN)

The purpose of the PPN is to encourage community participation in the policy decisions of local authorities, to incorporate the concerns of local citizens in the decision-making process. The PPN provides a link between the local community and local governments. The PPN also aims to address the concerns of vulnerable households for the purpose of creating a more socially inclusive community. With over 1,200 members, the Tipperary



166 kWp of a solar photovoltaic (PV) system on the main building of the Technological University of the Shannon

3. ACTIONS

3.1. COMMUNITIES

ACTION 1

SUPPORT THE CREATION AND DEVELOPMENT OF SUSTAINABLE ENERGY COMMUNITIES THROUGHOUT TIPPERARY.

Responsible Stakeholders

SEAI Tipperary SEC Mentor, Tipperary Energy Agency, North Tipperary Development Company, South Tipperary Development Company, Public Participation Network

ACTION 2

UTILISE SEAI'S COMMUNITY ENERGY GRANTS FUNDING TO GENERATE INVESTMENT IN ENERGY INFRASTRUCTURE IN TIPPERARY

Responsible Stakeholders

Tipperary County Council, Tipperary Energy Agency, North Tipperary Development Company, South Tipperary Development Company

ACTION 3

EXPLORE THE OPPORTUNITY TO PROVIDE BRIDGING FINANCE TO SECS

Responsible Stakeholders

SEAI Tipperary SEC Mentor, Tipperary County Council

ACTION 4

SUPPORT THE DEVELOPMENT OF SUSTAINABLE COMMUNITY GARDENS, ALLOTMENTS, BIODIVERSITY, AND CIRCULAR ECONOMY INITIATIVES, WORKING WITH COMMUNITY GROUPS INCLUDING TIDY TOWNS.

Responsible Stakeholders

North Tipperary Development Company, South Tipperary Development Company

ACTION 5

SUPPORT COMMUNITIES TO USE THE SMART VILLAGE APPROACH TO LOCAL DEVELOPMENT, INCORPORATING CLIMATE ACTION ISSUES

Responsible Stakeholders

North Tipperary Development Company, South Tipperary Development Company, Public Participation Network

ACTION 6

USE THE LEADER PROGRAMME TO PROMOTE AND SUPPORT COMMUNITY LED INNOVATIVE CLIMATE ACTION INITIATIVES ACROSS THE COUNTY; ENCOURAGE ENTERPRISES AND COMMUNITIES TO INCLUDE CLIMATE CHANGE ELEMENTS IN ALL PROJECTS FOR LEADER FUNDING

Responsible Stakeholders

North Tipperary Development Company, South Tipperary Development Company, SEAI Tipperary SEC Mentor

ACTION 7

INTEGRATED PROGRAMME OF ENERGY AUDITS FOR COMMUNITY FACILITIES

Responsible Stakeholders

Tipperary Energy Agency, South Tipperary Development Company, SEAI Tipperary SEC Mentor



3. ACTIONS *continued*

3.2. LOCAL AUTHORITY

ACTION 8

PREPARE THE TIPPERARY COUNTY DEVELOPMENT PLAN 2022 – 2028

Responsible Stakeholders

Tipperary County Council, Caro

ACTION 9

PREPARE LOCAL AREA PLANS FOR THE KEY TOWNS AND DISTRICT TOWNS

Responsible Stakeholders

Tipperary County Council

ACTION 10

ONGOING IMPLEMENTATION OF AN ANNUAL ENERGY ACTION PLAN, ADAPTATION PLAN AND STRATEGIC ENERGY MANAGEMENT PLAN

Responsible Stakeholders

Tipperary County Council, Tipperary Energy Agency

ACTION 11

KICK OFF THE EU REMARKABLE PROJECT WHICH WILL FOCUS ON CLIMATE LEADERSHIP AND CARBON NEUTRALITY ROADMAPS

Responsible Stakeholders

TUS, Tipperary Energy Agency, Public Participation Network

3.3. RESIDENTIAL

ACTION 12

SOCIAL HOUSING ENERGY UPGRADE

Responsible Stakeholders

Tipperary County Council

ACTION 13

HOME RETROFIT INFORMATION & WEBINAR

Responsible Stakeholders

Tipperary County Council, Tipperary Energy Agency, Public Participation Network

ACTION 14

COLLABORATE WITH ELECTRIC IRELAND SUPERHOMES IRELAND TO MAXIMISE THE QUANTITY OF RESIDENTIAL RETROFITS IN TIPPERARY

Responsible Stakeholders

Tipperary Energy Agency

ACTION 15

NEW HOMES IN SMALL TOWNS AND VILLAGES SUPPORT SCHEME

Responsible Stakeholders

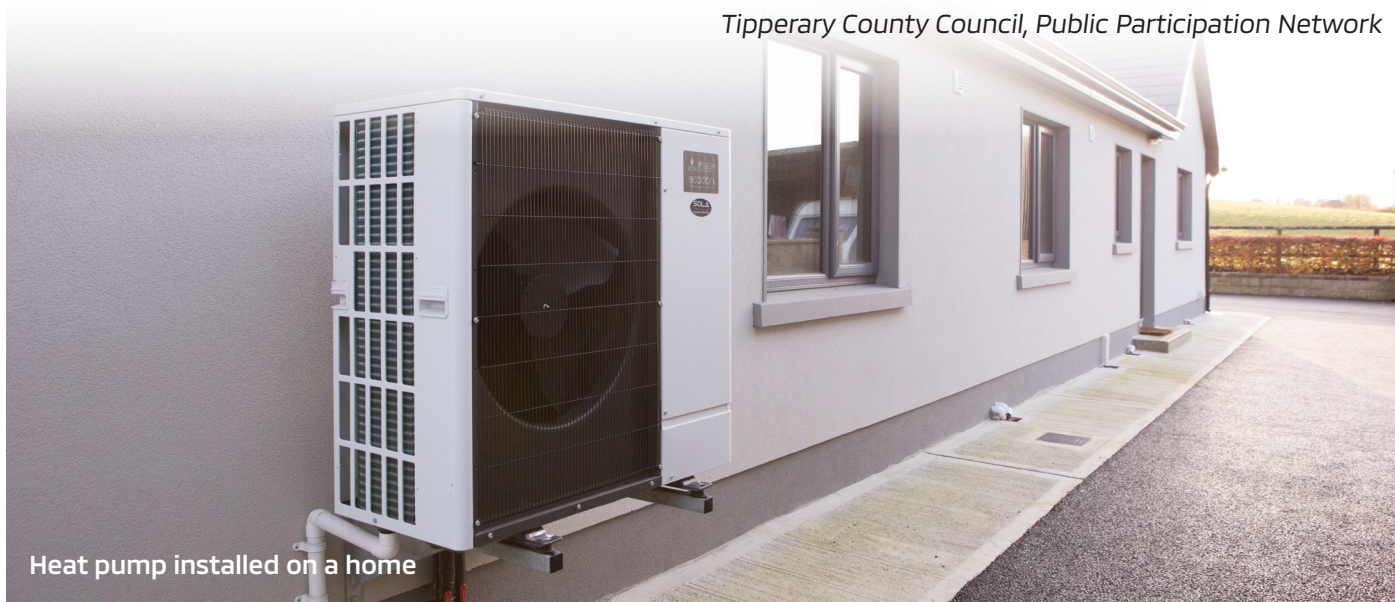
Tipperary County Council, Public Participation Network

ACTION 16

SUPPORT REGENERATION OF TOWN CENTRES AND ACTIVE REUSE OF BUILDING STOCK

Responsible Stakeholders

Tipperary County Council, Public Participation Network



Heat pump installed on a home

3. ACTIONS *continued*

3.4. SME SECTOR

ACTION 17

SME ENERGY SURVEY

Responsible Stakeholders

Tipperary County Council, Tipperary Energy Agency,
Local Enterprise Office

ACTION 18

SME ENERGY EXPO

Responsible Stakeholders

Tipperary County Council, Tipperary Energy Agency,
Local Enterprise Office

ACTION 19

BEST PRACTICE MULTINATIONAL OPEN DAYS FOR SMES

Responsible Stakeholders

Local Enterprise Office

ACTION 20

SUPPORT GREEN BUSINESS INITIATIVES

Responsible Stakeholders

Tipperary County Council, South Tipperary Development
Company

ACTION 21

DEVELOP LOCAL REMOTE WORKING HUBS

Responsible Stakeholders

Tipperary County Council, South Tipperary Development
Company, North Tipperary Development Company

3.5. AGRICULTURE & FOOD

ACTION 22

ESTABLISH SIGNPOST FARMERS

Responsible Stakeholders

Teagasc

ACTION 23

DEVELOP WORKBOOKS FOR FARMERS TO ASSESS
THE COST OF INSTALLING RENEWABLE ENERGY
TECHNOLOGIES AND THE PAYBACK PERIOD

Responsible Stakeholders

Teagasc

ACTION 24

HOST ENERGY AND DECARBONISATION WEBINARS FOR
FARMERS

Responsible Stakeholders

Teagasc

ACTION 25

ENERGY IN AGRICULTURE

Responsible Stakeholders

Teagasc, Tipperary Energy Agency, Tipperary County
Council

ACTION 26

SUPPORT DEVELOPMENT OF NEW A DEGREE
PROGRAMME IN AGRICULTURE AND SUSTAINABILITY

Responsible Stakeholders

TUS, Teagasc

ACTION 27

INVESTIGATE LOCAL FOOD PRODUCERS SUSTAINING
THEIR ENVIRONMENT

Responsible Stakeholders

TBC



3. ACTIONS *continued*

3.6. TRANSPORT

ACTION 28

PROMOTE THE USE OF ELECTRIC VEHICLES AND ALTERNATIVE FUELS

Responsible Stakeholders

North Tipperary Development Company, Tipperary County Council, Tipperary Energy Agency

ACTION 29

PROMOTE FLEXIBLE WORKING AND VIRTUAL MEETINGS

Responsible Stakeholders

Tipperary County Council, Tipperary Energy Agency

ACTION 30

EV CHARGING INFRASTRUCTURE DEPLOYMENT

Responsible Stakeholders

Tipperary County Council

ACTION 31

DEVELOP ACTIVE TRAVEL PROGRAMME

Responsible Stakeholders

Tipperary County Council

ACTION 32

DELIVER THE SAFE ROUTES TO SCHOOL PROGRAMME

Responsible Stakeholders

Tipperary County Council

ACTION 33

UPGRADE WALKING AND CYCLING FACILITIES WITHIN TOWNS AND VILLAGES

Responsible Stakeholders

Tipperary County Council, South Tipperary Development Company

3.7. EDUCATION, RESEARCH AND DEVELOPMENT

ACTION 34

RESEARCH NEW INNOVATIONS IN TECHNOLOGY CONTRACTING AND FINANCING ENERGY PROJECTS

Responsible Stakeholders

Tipperary Energy Agency

ACTION 35

ENGAGE SECONDARY SCHOOLS IN ENERGY EFFICIENCY AND CLIMATE ACTION EDUCATION

Responsible Stakeholders

Tipperary Energy Agency, Tipperary County Council

ACTION 36

COOPERATE WITH THE SUSTAINABLE DEVELOPMENT RESEARCH INSTITUTE (SDRI) IN TUS TO MAXIMISE ACCESS TO NATIONAL AND EU R&D FUNDING FOR THE COUNTY

Responsible Stakeholders

TUS, Tipperary Energy Agency, Tipperary County Council

ACTION 37

MAXIMISE USE OF OUTPUTS FROM TUS R&D PROJECTS E.G. HP4ALL, SEAI RDD PROJECTS ETC

Responsible Stakeholders

TUS, Tipperary Energy Agency, Tipperary County Council

ACTION 38

LEAD AND SUPPORT THE DEVELOPMENT OF THE URDF FUNDED CENTRE OF EXCELLENCE IN NENAGH

Responsible Stakeholders

Tipperary Energy Agency, Tipperary County Council, TUS

ACTION 39

ENGAGE WITH RELEVANT REGIONAL AND NATIONAL INITIATIVES AS REQUIRED TO POSITION TIPPERARY AS A LOW CARBON COUNTY AND MAXIMISE IMPACT OF OUR WORK

Responsible Stakeholders

Tipperary Energy Agency, Tipperary County Council, TUS

ACTION 40

PROVIDE EDUCATION, TRAINING, AND AWARENESS TO PEOPLE IN TIPPERARY AROUND CLIMATE CHANGE, RENEWABLE TECHNOLOGY, ENERGY EFFICIENCY, WASTE, CIRCULAR ECONOMY

Responsible Stakeholders

Tipperary Energy Agency, Tipperary County Council, TUS, South Tipperary Development Company, Public Participation Network



Representatives from the Scouts Hall, Nenagh



LED Lighting



Representatives from Nenagh Tennis Club



Technological University of the Shannon



Energy in Agriculture



LED Lighting



Sustainable TIPP NZEB Competition Winner



Heat pump installed in Clonmel Scouts Hall



Retrofitted home