



# GenComm

GENERATING Energy Secure COMMUNITIES

*The Sat Nav for  
Green H2  
Deployment*

Louth County Council - Associate Partner  
Ursula Conlon + Padraig O'Hora

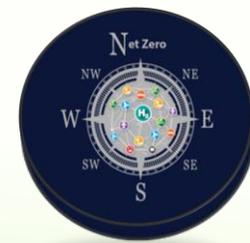




**PADRAIG O'HORA**  
**SENIOR EXECUTIVE ENGINEER LOUTH**  
**COUNTY COUNCIL**



**URSULA CONLON**  
**EXECUTIVE PLANNER LOUTH COUNTY**  
**COUNCIL**





## ► Agenda

### 1. The Existing Energy Situation

### 2. EU and Ireland - Objectives and Targets

### 3. Louth County Council and Energy

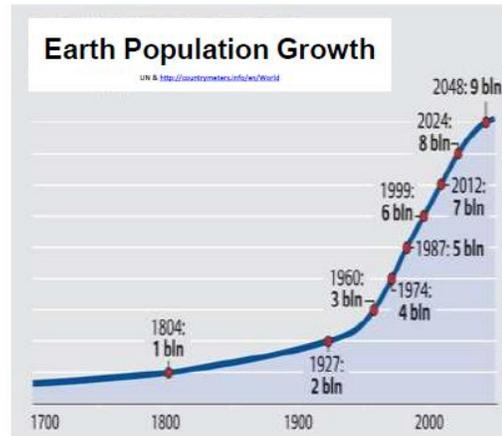
### 4. Louth County Council and Gencomm

- Developed external international links and collaboration with key energy stakeholders
- Enabled the region and Louth County Council to have access to a project supporting the renewable energy sector, developing stronger partnerships
- Positioned the East Border Region to host a Shared Island Fund application for funding for specialist advise for a carbon reduction for HGVs
- Provide the opportunity for Louth County Council to access and share learning's with regard to Hydrogen - Strategic Policy Committee



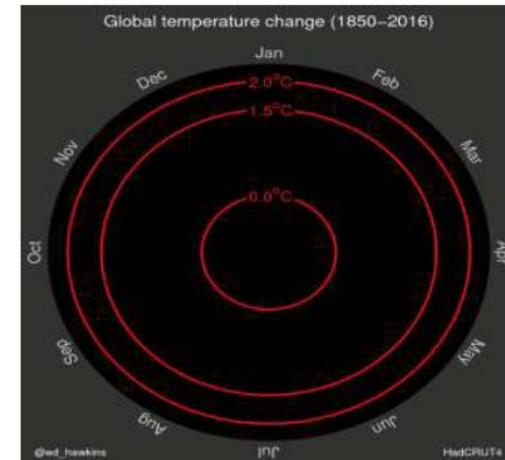
## ► The Existing Situation ...Dilemma.

## A Changing World...



What affect will these have on:

- Resources
- Energy Use
- Transport





# ... AND WHY WE NEED TO ...

## International Contracts



### 1992: UNFCCC

United Nations Framework Convention on Climate Change

**Goal:** prevent dangerous anthropogenic interference with the climate system  
**2019:** 197 ratifiers



**United Nations**  
Framework Convention on  
Climate Change



### 1997: Kyoto-Protokoll

**Goal:** decrease til 2020: GreenHouseGases -20% (1990 = 100%)  
**2005:** 141 nations signed

### 2015: Paris Agreement: 2015

**long-term goal:** keep global average temperature to well below 2 °C; and limit the increase to 1.5 °C (above pre-industrial levels)  
**2019:** 195 nations ratified





# SEAI REPORTED THAT ...

Almost  
**90%**

of our renewable  
energy comes from:

WIND



SOLID BIOMASS



LIQUID BIOFUELS



**4.2** MtCO<sub>2</sub>

in avoided CO<sub>2</sub> emissions  
from renewable energy which  
is equivalent to removing

**70%** of private cars  
off the road

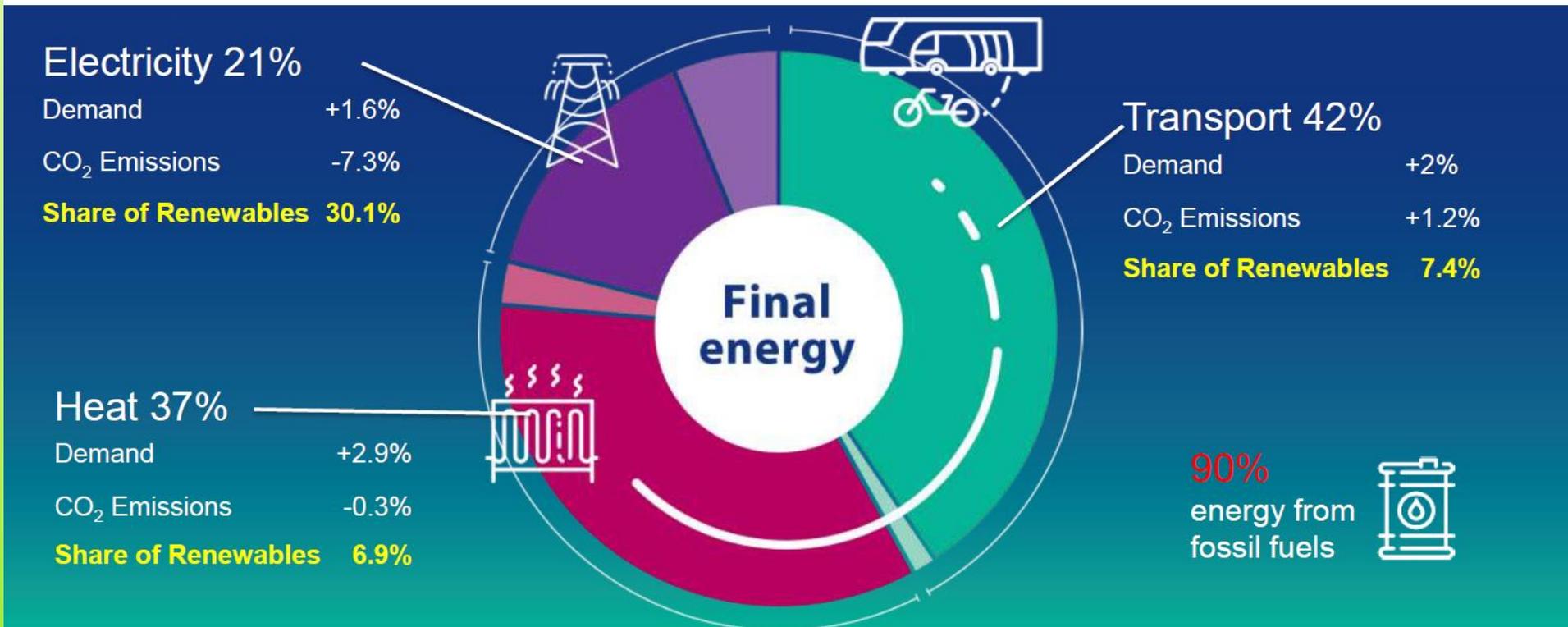


# WE JOINED GENCOMM AT A TIME WHEN RENEWABLE ENERGY WAS STILL NOT A THING



## SEAI REPORTED IN 2018 ...

### Renewable Energy in Ireland (2018)





# EU AND PUBLIC SECTOR TARGETS -2020/2050

2020	2030	2050
<b>- 20%</b> GHG Emissions <b>+20%</b> renewable energy <b>+20%</b> energy efficiency	<b>- 55%</b> GHG Emissions <b>+32%</b> renewable energy <b>+32.5%</b> energy efficiency	<b>Climate neutral</b> 
2020	2030	2050
<b>+ 33 %</b> energy performance	<b>+ 50%</b> energy efficiency <b>- 51%</b> GHG Emissions (absolute)	<b>Net zero emissions</b> 

# COMMONALITIES ...





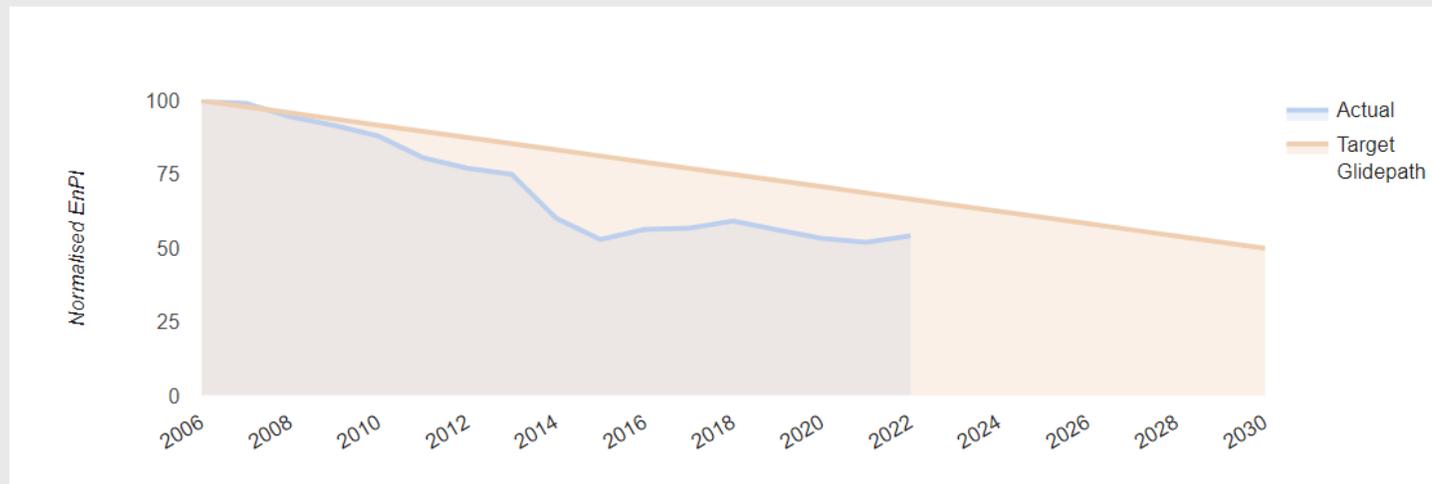
# LCC AND PSMR - SEAI

## Energy Performance Indicators - 2022

2022 EnPI = 194  $\frac{\text{kWh}}{\text{Population Served}}$

Target EnPI = 179  $\frac{\text{kWh}}{\text{Population Served}}$

Graph shows EnPI before and after transfer of water services to Irish Water (IW). [Click here for more information.](#)



### Level 2 Energy Performance Indicators (2022)

4.2% worse than 2021



45.8% better than energy efficiency baseline



8.4% improvement required by 2030



Electricity = 125  $\frac{\text{kWh}}{\text{Population Served}}$

3.4% worse than 2021



Thermal = 45  $\frac{\text{kWh}}{\text{Population Served}}$

7.3% worse than 2021



Transport = 24  $\frac{\text{kWh}}{\text{Population Served}}$

2.8% worse than 2021





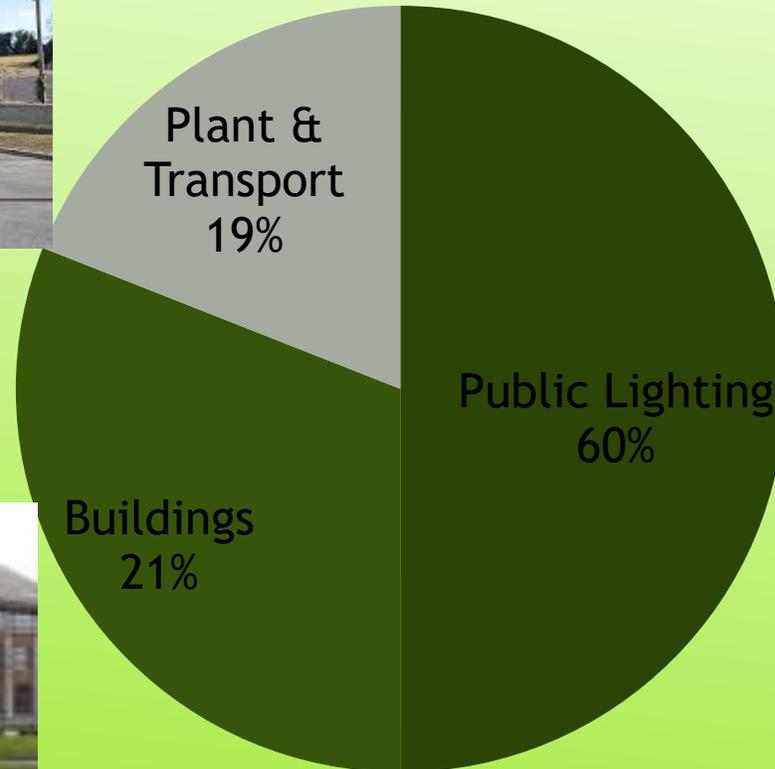
# LCC SIGNIFICANT ENERGY USERS 2015/2016



Plant &  
Transport  
19%



Buildings  
21%



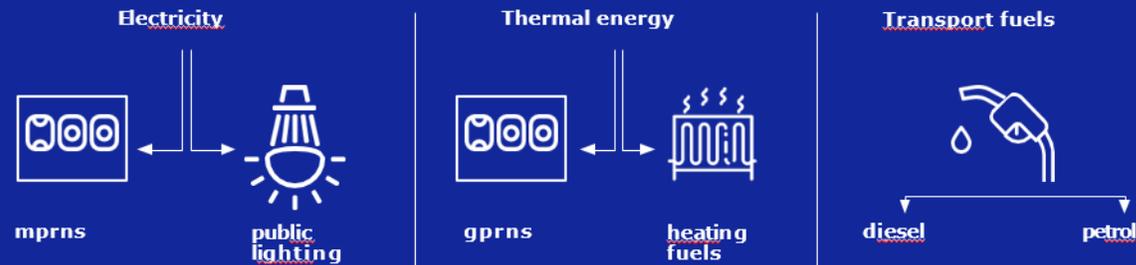
Total Energy Use  
18,325,000 kWh

Total Energy Spend  
€1,950,000

# LOUTH COUNTY COUNCIL AND 2030



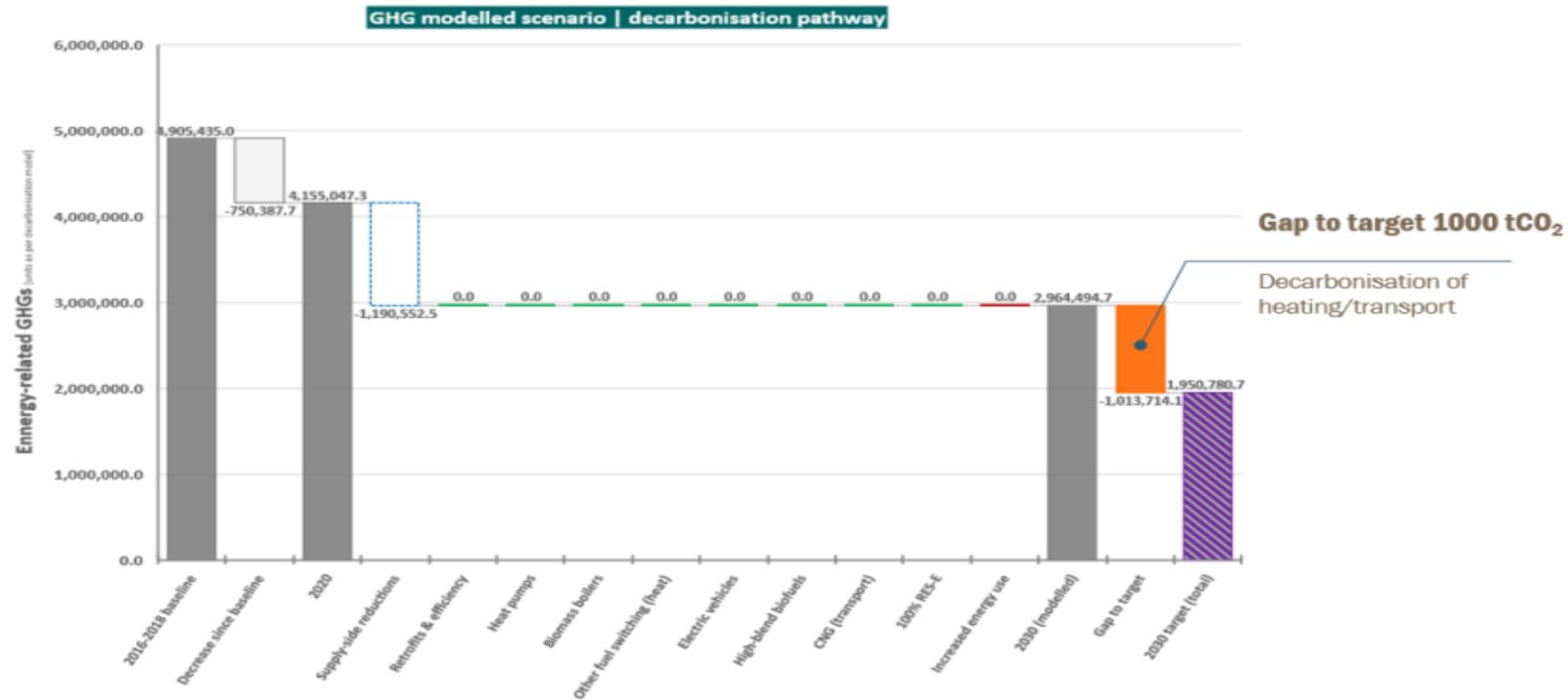
## Louth County Council PB-00289 Energy and decarbonisation Pathway to 2030





# GAP TO TARGET - LOUTH COUNTY COUNCIL

Gap to Target (Emissions) BUSINESS AS USUAL-Gap to target 1000tCO<sub>2</sub> approx





# THRO' GENCOMM - WE HEARD FROM DEPARTMENT OF INFRASTRUCTURE NI ... WHICH INFLUENCED OUR PARTICIPATION IN THE EU 'FASTER' PROJECT ...

## ecarni Infrastructure in Ireland

- £3.5 million investment by OLEV and the 26-member ecar Consortium in Northern Ireland
- 320 no. 22kW AC Fast Charge Points
- 17 no. 50kW DC Rapid Charge Points
- Majority of drivers are no more than 10 miles from an ecar Fast (22kW) charge point
- 54 Charge Points in Public Sector Estate
- All Island Interoperable network



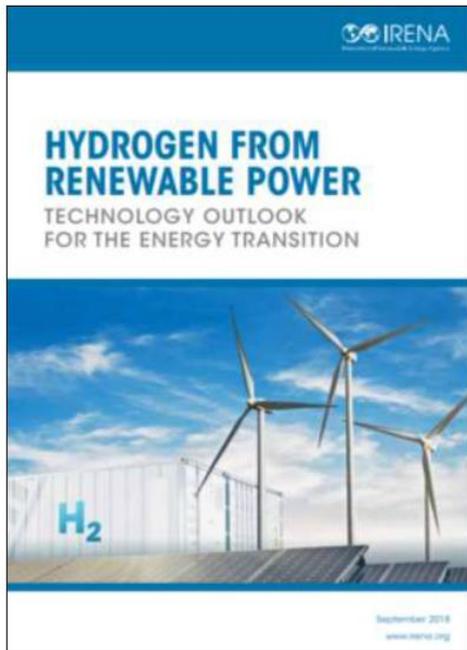
e-carni  
Charged for Success



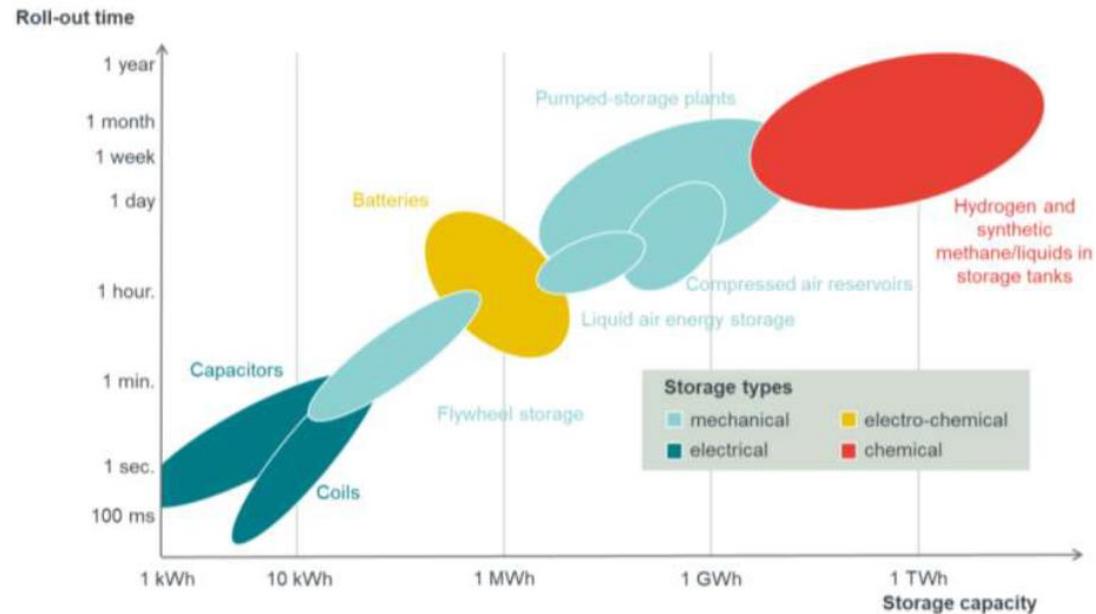


# ARISING FROM OUR PARTICIPATION ... WE ARE INCREASINGLY CONCLUDING ...

## Our Energy Transition Needs Hydrogen!



<https://irena.org/publications/2018/Sep/Hydrogen-from-renewable-power>



Source: Frontier Economics based on Sterner et al. (2014), and own analyses. Also see WEC (2016).



# ALL-ISLAND SHARED FUNDING STREAM - MONAGHAN CC LED A CONSORTIUM ...

The Consortium wants to develop their own zero carbon HGV roadmaps. These roadmaps are crucial for identifying opportunities and conditions across the whole value chain for clean energy transition. Fuel is the second largest energy user for Local Authorities. HGV's are the highest energy users (and carbon emissions) of our fleets. Public Bodies are obliged to reduce energy emissions by 50% by 2030. The need is to identify a renewable energy option for powering HGV's, compatible with our 2030 energy emission targets. In order to quantify the Carbon Dioxide (CO<sub>2</sub>) footprint of the HGV fleets of the Local Authorities, it is necessary to designate zero carbon routes to decarbonise this energy content and map out routes and timelines for sustainable transport solutions.

## Subject Matter of Request for Tender

**Provision of Services for a Feasibility Study for Alternative Fuels for HGVs for the following Consortium, which is being led by Monaghan County Council and includes:**

**Monaghan County Council, Louth County Council, Newry Mourne and Down District Council, Ards and North Down Borough Council, Armagh Banbridge and Craigavon Borough Council & East Border Region**



# SHARED ISLAND FUND - FEASIBILITY STUDY

ID	Task Mode	Task Name	Duration	Start	Finish	Timeline																
						Feb	Mar	Qtr 2, 2023			Qtr 3, 2023			Aug	Sep							
1	★	Kick Off Meeting	1 day	Mon 10/04/2	Mon 10/04/2																	
2	★	Completion of Baseline Evaluation and Contextual	25 days	Tue 11/04/23	Mon 15/05/23																	
3	★	Completion of Stakeholder and Industry Engagement	25 days	Tue 11/04/23	Mon 15/05/23																	
4	★	Knowledge Awareness Site Visits	10 days	Tue 16/05/23	Mon 29/05/23																	
5	★	Completion of Alternative Fuel Option Analysis	15 days	Tue 30/05/23	Mon 19/06/23																	
6	★	Completion of a first draft of the Feasibility Study	15 days	Tue 20/06/23	Mon 10/07/23																	
7	★	Local Authority Review of draft	5 days	Tue 11/07/23	Mon 17/07/23																	
8	★	Completion of a second draft the Feasibility Study	10 days	Tue 18/07/23	Mon 31/07/23																	
9	★	Local Authority Review of draft	5 days	Tue 01/08/23	Mon 07/08/23																	
10	★	Development of Zero Carbon HGV Strategy	25 days	Tue 20/06/23	Mon 24/07/23																	

# NEWSLETTERS



**Interreg**   
North-West Europe  
**GenComm**  
European Regional Development Fund

## H<sub>2</sub>GO NEWS

March 2023



### GenComm EST to help bus fleets decarbonise globally goes live

Europe makes hydrogen central to its future energy plans

Green Economy - Northern Ireland's potential

Clean hydrogen from dirty waters: Galway leads ANEMEL project to tackle the challenge

New Hydrogen Taskforce in Luxembourg

UK takes first step to introducing a Low Carbon Hydrogen Certification Scheme

GenComm Partners research into transport decarbonisation

Valentia Island project H<sub>2</sub>ORIZON selected for European hydrogen project

# One Page

TEMPLATE



GRAPHIC DESIGN  
**STUDIO**

What are the benefits of using cosmetics?

- Design & Sketch (Illustration)
- Final Look & Branding
- Production and Marketing
- Team and Brand Value
- Strategy for Development
- Time and Customer-Centric



- ▶ And all because ... we were invited to become an associate partner of the GENCOMM project

# *THE SAT NAV FOR GREEN H2 DEPLOYMENT*



Comhairle Contae Lú  
Louth County Council

Thank You  
Go raibh maith agat

Contact

1890 202 303  
info@louthcoco.ie



Follow us

@louthcoco

**County Hall**  
Millennium Centre  
St Alphonsus Road  
Dundalk  
A91 KFW6

**Townhall**  
Crowe Street  
Dundalk  
County Louth  
A91 W20C

**Civic Centre**  
Fair Street  
Drogheda  
County Louth  
A92 P440

**Mid Louth Civic Services Centre**  
Fair Green  
Ardee  
County Louth  
A92 RYT2