





## Introduction

This licence extension project to East Down will allow for 13 new towns to be connected to the natural gas network; Annahilt, Ballygowan, Ballynahinch, Castlewellan, Crossgar, Downpatrick, Dromore, Drumaness, Dundrum, Hillsborough, Newcastle, Saintfield and The Spa.

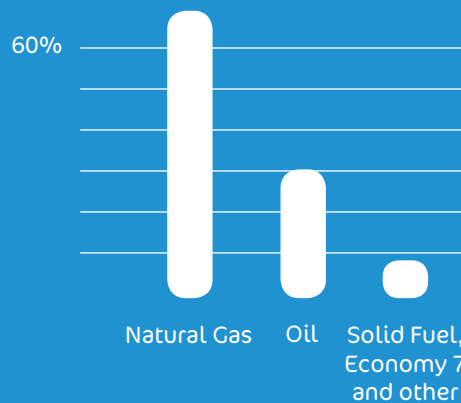
The capital investment of the overall project is upwards of £58 million and is estimated to make gas available to circa 28,000 domestic and commercial properties.



## Background to Phoenix Natural Gas

Phoenix Natural Gas is the largest natural gas distribution company in Northern Ireland. Phoenix is responsible for the development of the pipeline network and additional services to suppliers, which facilitates the supply of natural gas to homes and businesses.

The Phoenix network currently extends to around 3500 km of intermediate, medium and low pressure mains, which distribute natural gas throughout the licence area. Phoenix's licence covers around 50% of the population of Northern Ireland, where Phoenix has operated for 20 years. Natural gas is the dominant fuel with around 60% of the licence area already benefitting from the economic and environmental benefits of natural gas.



### KEY FACTS

- Network** - Approx. 3500km
- Gas Available to** - 300,000+ properties
- Gas Coverage** - Over 90%
- Connections** - Approx. 200,000
- Established** - 1996



## KEY FACTS

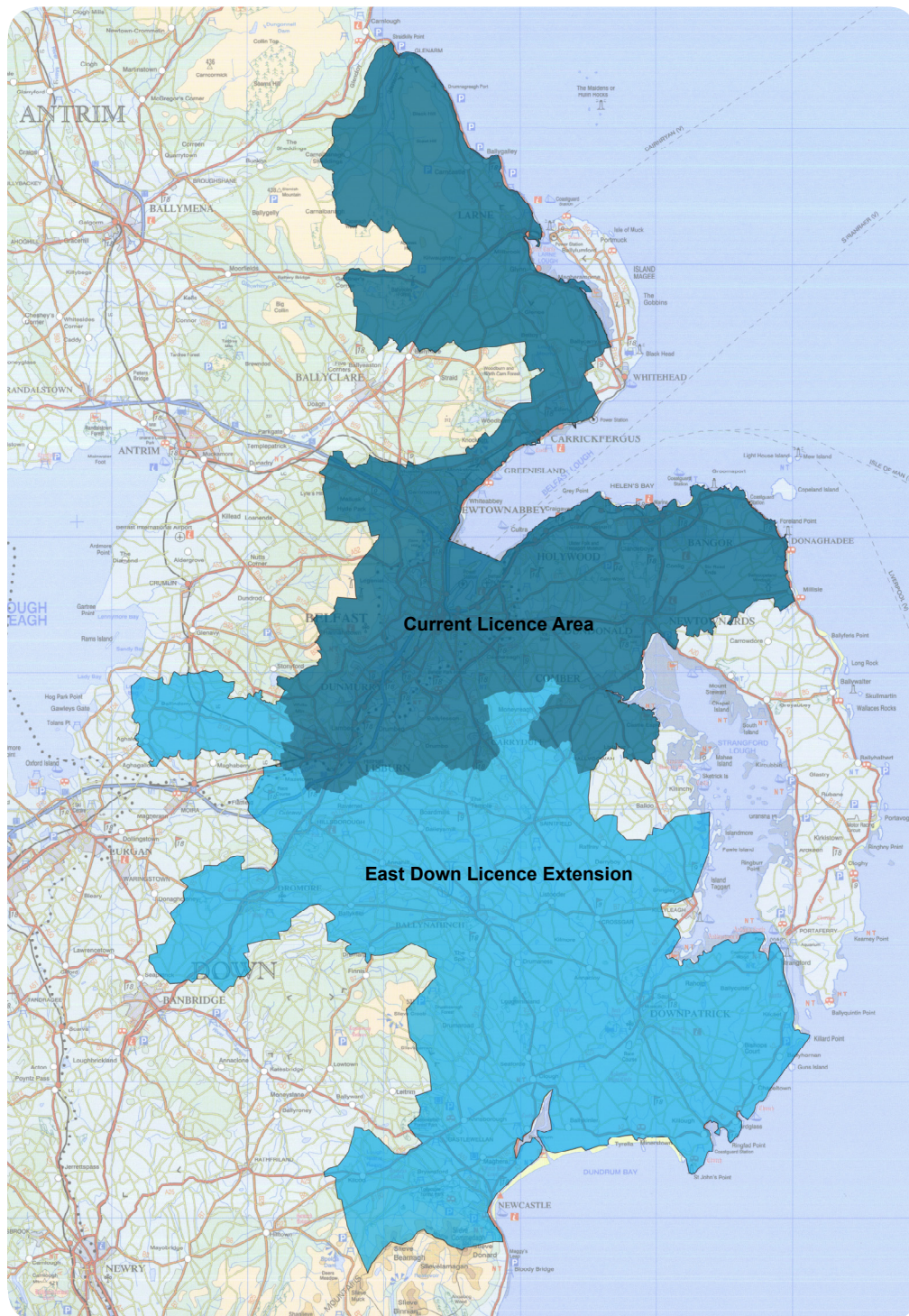
**Network Build** – 350km

**Gas Availability** – 28,000 properties

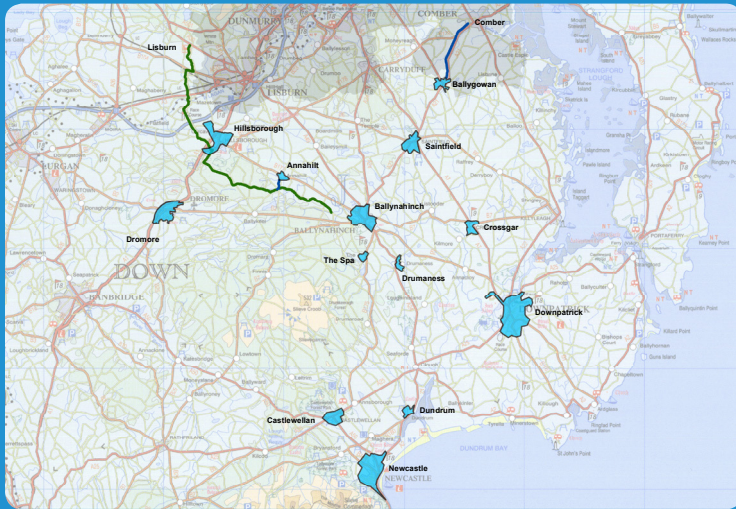
**Investment** – circa £58 million

**East Down Towns Coverage** – Over 90%

## Project Overview



# Mains Build Programme

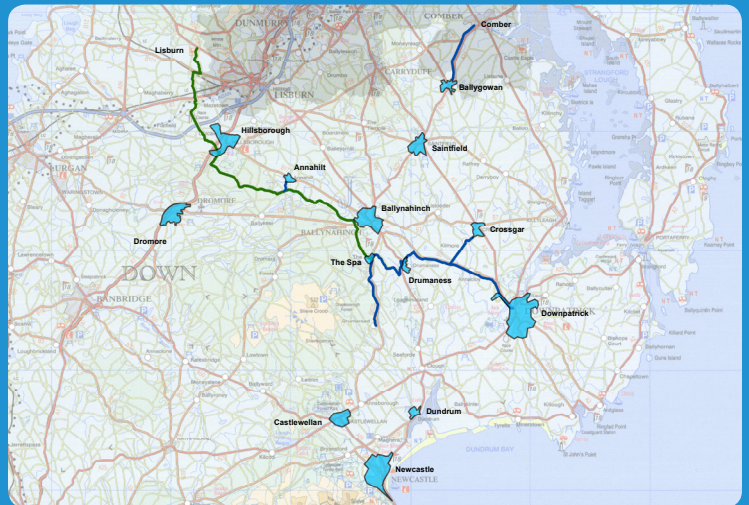


## Year 1 – 2016

- Section 1 Comber to Ballygowan
- Section 2 Glenavy Road, Lisburn to outskirts of Ballynahinch via Hillsborough and Annahilt

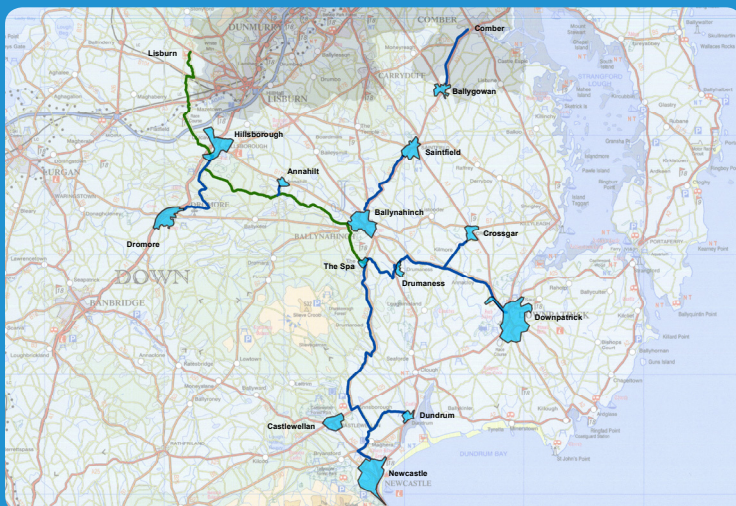
## Year 2 – 2017

- Section 1 Outskirts of Ballynahinch to Downpatrick via The Spa, Drumaness and Crossgar
- Section 2 The Spa to Edendariff Road



## Year 3 – 2018

- Section 1 Edendariff Road to Newcastle via Castlewellan and Dundrum
- Section 2 Ballynahinch to Saintfield
- Section 3 Hillsborough to Dromore





## Connecting Towns

13 New Towns over 4 Councils –

Lisburn and Castlereagh (2)

- Annahilt
- Hillsborough

Armagh, Banbridge and Craigavon (1)

- Dromore

North Down and Ards (1)

- Ballygowan

Newry, Mourne and Down (9)

- Ballynahinch
- Castlewellan
- Crossgar
- Downpatrick
- Drumaness
- Dundrum
- Newcastle
- Saintfield
- The Spa



## Construction Methods

The vast majority of the gas main will be laid in existing carriageways. The most cost efficient and environmentally friendly method is directional drilling and we try to use this where possible.



## Mains Laying Techniques

### *Open Cut*

Open cut is the standard technique for laying underground pipelines via trench excavation.

### *Directional Drilling*

This method is used in favourable soil conditions and minimises disruption and maximises productivity. This form of trenchless technology means metal rods are driven underground to lay the gas main.



## Programme of Works

Town	Start Year	Km	Properties Passed	Completion Year
Ballygowan	2016	13.2	1400	2019
Hillsborough	2017	21.3	2200	2020
Ballynahinch	2017	27.6	3500	2021
Annahilt	2017	5.7	470	2019
Spa	2017	3.4	230	2018
Downpatrick	2018	58.4	6035	2022
Saintfield	2018	18.4	1845	2021
Dromore	2018	27.6	3320	2022
Crossgar	2018	15.2	1019	2020
Drumaness	2018	5.3	632	2021
Newcastle	2019	39.4	4805	2022
Castlewellan	2019	16.6	1490	2022
Dundrum	2019	7.7	1054	2021
<b>Total</b>		<b>260</b>	<b>28000</b>	

This is in addition to **90km of mains network** that will be constructed to make gas available to East Down.





## Gas Industry

- 3,000 employed in wider natural gas industry
- Circa £58m initial investment
- Approx. a further £60m to be invested in energy efficiency and gas upgrades
- Skills development potential in East Down



## Benefits of Natural Gas

There are significant benefits of natural gas for both homes and business:

- Convenient, flexible payments, instant and constant hot water.
- Most up to date energy source for specialised factory apparatus.
- Highly energy efficient
- Versatile and controllable.
- Grant assistance for upgrade costs.
- Enabler for economic growth – attractive investment proposition.



### Affordability

Natural gas has been on average 10% cheaper than oil over the last 5 years\*

### Environment

As natural gas is the cleanest burning fossil fuel it's better for the environment; for example natural gas emits 25% less CO2 than oil and on average for each customer that connects is the equivalent to approximately 1 car removed from the road for life.



\*Price comparison based on the retail oil prices published by the Consumer Council for Northern Ireland every Tuesday, providing an average price for 900 litres of retail oil for Northern Ireland and natural gas price is the average of all available PAYG tariffs only, within the Greater Belfast licensed area.



## Our Commitment

We are committed to completing this extension project in the most efficient way so as to minimise disruption.

All Phoenix roadwork's operations will be carried out in compliance with The Street Works (Northern Ireland) Order 1995 and will adhere to planned working hours where possible, however, clearly for traffic sensitive roads and specific site requirements we will need to complete our construction works outside normal hours and during weekends.

An Environmental Management Plan has also been completed, which all construction works shall adhere to.

We work with the local community before and during construction on a number of programmes such as Dial Before You Dig, schools education programmes, emergency number and gas safety promotion.



### Vision

**To be recognised for excellence as a world leading energy utility**





## PR

At Phoenix we have an overarching Corporate Responsibility programme call LIFE, which stands for:

- Leadership in the marketplace
- Investing in our people
- Fostering our community
- Environmental awareness



The range of programmes that we currently run will also reach into East Down, such as;

Time to Read and Time to Count, Sports and Arts Bursaries, apprenticeships and work placements as well as our own gas industry charity Energy for Children, which provides funding for local disadvantaged children.



## Communication

- Public information evening
- Advance warning to all affected properties
- Local press notices
- Website updates
- Gas Availability Checker





## Contact Details

### Engineering Enquiries



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