



# WELCOME TO INEOS GRANGEMOUTH

**INEOS**  
THE WORD FOR CHEMICALS



# WELCOME



Welcome to the INEOS O&P UK site at Grangemouth. As a major manufacturing and petrochemical site, there are a number of safety, health and environmental rules that everyone on site must adhere to, visitors included. Your host will explain those that are pertinent to you.

Your visit coincides with a significant amount of work being undertaken and it's an exciting time for the O&P UK business right now. Already at the forefront of petrochemical manufacture, we're looking ahead to a period of strategic sustainable growth, which will position the Grangemouth site as a global leading chemical and sciences manufacturing hub. Since 2013, we've invested over £450m here – representing the most significant investment into UK and Scottish petrochemical manufacture of recent times and we are delivering a programme of modernisation of manufacturing facilities and upgrading infrastructure with a strong focus on addressing the challenges ahead.

We're also undertaking regeneration works, demolishing old manufacturing plant and buildings and making way for future developments and investments.

We hope that you find your time with us, enjoyable and informative and that you find this welcome handbook a useful reference document during your visit and afterwards. ”

**John McNally**  
CEO O&P UK

# INEOS GROUP

EMPLOYING



# 18,500

TURNOVER OF

# \$60bn

**OUR HERITAGE:**

**Amoco, BASF, Bayer, Borealis, BP, Degussa, Dow, Enichem, Erdölchemie, Hoechst, ICI, Innovene, LANXESS, Monsanto, Norsk Hydro, and Solvay.**

**GLOBAL LOCATIONS:  
MANUFACTURING SITES**



# 181

(2017 data)

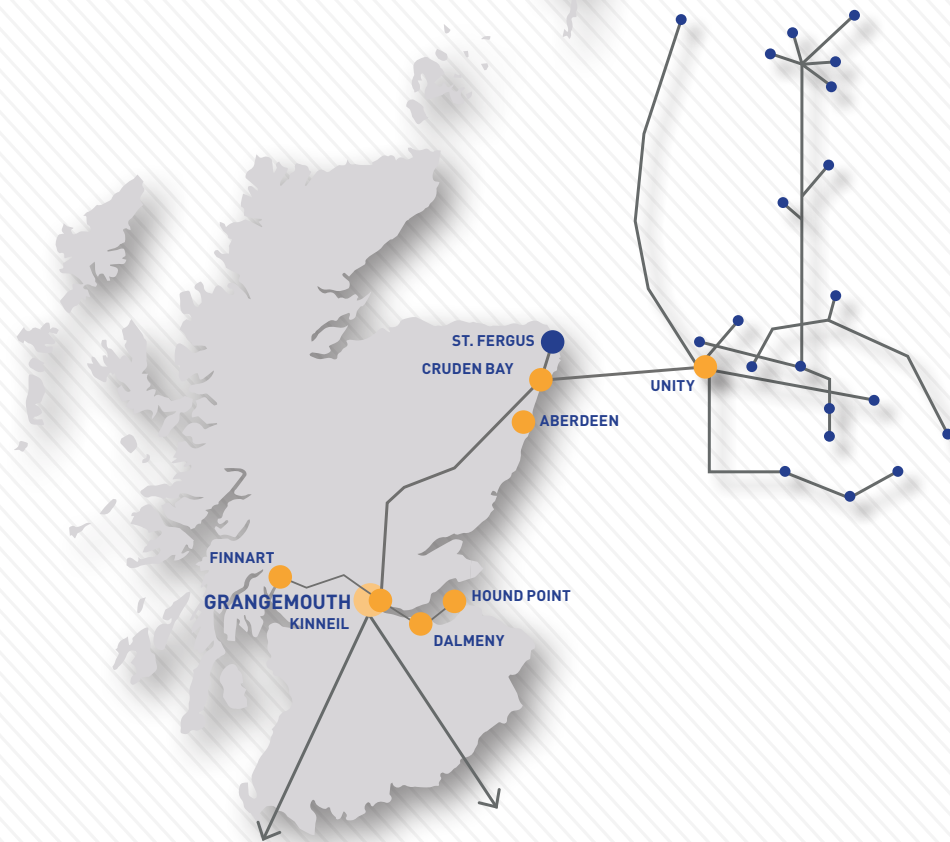
**COUNTRIES AROUND  
THE WORLD**



# 22

\*Including joint ventures.

# INEOS IN SCOTLAND



At Grangemouth, we produce a wide range of petrochemicals, fuel and oil products, including:

- petrol/gasoline; diesel; jet fuel; heating oil
- ethylene; propylene; polyethylene; polypropylene; ethanol.

And via INEOS FPS, we transport oil and gas from the extensive North Sea network of production platforms to be processed and stabilised in the adjacent Kinneil separation plant.

Ethylene produced in Grangemouth is exported via pipeline to the North West and North East of England.



# 10

INEOS is now positioned as a Top 10 company and the biggest private enterprise operating in the North Sea.





# A SNAPSHOT OF GRANGEMOUTH

Take a look around our Grangemouth site, and you'll discover advanced engineering on a huge scale. In fact, this is one of INEOS' largest manufacturing sites by volume of products. It has a rich heritage and can trace its origins back to 1924 with the construction of the first crude oil refinery unit. Today the Petroineos refinery, a joint venture between INEOS and Petrochina, produces the bulk of fuels used in Scotland. The co-located INEOS Chemicals business comprises a world scale ethylene cracker with downstream plants producing ethanol, polyethylene and polypropylene. Completing the INEOS Grangemouth industrial complex is the recently (2017) INEOS-acquired Forties Pipeline System that delivers almost 40% of the UK's North Sea oil and gas production.





OVER 1.3 MILLION TONNES  
OF CHEMICAL PRODUCTS



£450m+  
INVESTMENT  
IN CHEMICALS



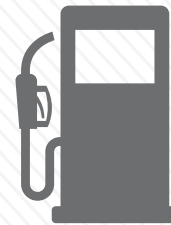
1650  
EMPLOYEES



GENERATING  
APPROXIMATELY

4%  
OF SCOTLAND'S GDP

accurate as of 2016 data



PRODUCING  
9 MILLION LITRES  
OF FUEL PER DAY



FIRST UK SITE TO  
IMPORT  
US SHALE GAS ETHANE





# THE GRANGEMOUTH REFINING, PETROCHEMICAL AND KINNEIL COMPLEX

POLYMER PRODUCTION

INEOS O&P UK HQ

JETTY AREA FOR SEABORNE IMPORTS AND EXPORTS

ETHYLENE CRACKER, KG

LIQUID ETHANE STORAGE TANK

THE KINNEIL COMPLEX





# INEOS O&P UK GRANGEMOUTH

Our world-scale petrochemical plants make around 1.3 million tonnes per annum of product, used as the building blocks in the manufacture of household items that society depends upon every day. These include ethanol; ethylene, propylene (Olefins) and polyethylene and polypropylene (Polymers). Our products are used extensively in the petrochemical industry and transformed into bottles and pipes, cabling and insulation, food packaging and by the pharmaceutical industry. Ethylene is also exported from the site via pipelines to the North East and North West of England. Recent investment into the Chemicals business has secured long-term supplies of US shale gas ethane, a vital feedstock for the KG ethylene cracker.

## HOW WE WORK AT GRANGEMOUTH

INEOS O&P UK shall work in compliance with **INEOS 20 Principles**, ensuring that the highest levels of **Process** and **Behavioural Safety** performance are achieved and maintained.

The 20 Principles are:

### BEHAVIOURAL SAFETY PRINCIPLES

We believe all incidents and injuries can be prevented.

Everyone's first responsibility is to ensure they work safely.

Everyone has the duty to stop work if they feel the situation is unsafe.

The expectations and standards are the same for everyone on the site.

Rules and procedures must be observed and respected.

We should look out for each other's safety and unsafe situations.

All injuries and incident/near misses must be reported and investigated.

Risk assessment must be carried out prior to, during and on completion of work.

All team leaders have a special responsibility for promoting and upholding these principles.

We must always work within the limit of our competency and training.

### PROCESS SAFETY PRINCIPLES

The asset operating manager is responsible for its overall integrity.

The asset engineers are responsible for maintaining the asset and protective systems integrity.

The responsibilities in the organisation for defining and maintaining the correct operating envelopes must be clear.

Operating procedures and envelopes must be observed. Deviations must be reported and investigated.

Any changes must be properly risk assessed and subjected to MOC procedures.

Process hazards are systematically identified, risk assessed, reviewed and managed.

All assets must be subject to periodic inspection designed to ensure their integrity and the reliability of their protective systems.

Operations must always place the safe operation or shutdown of the asset ahead of production.

When in doubt the asset must always be taken to its safest state.

We have emergency plans based on assessed risks which are regularly tested.

# HOW TO FIND US

- |                                    |                                     |
|------------------------------------|-------------------------------------|
| <b>A</b> – Leapark Hotel           | <b>I</b> – INEOS HQ Building        |
| <b>B</b> – Projects                | <b>J</b> – Grangemouth Stadium      |
| <b>C</b> – Exhibition Centre       | <b>K</b> – Stores Building          |
| <b>D</b> – G'mouth Business Centre | <b>L</b> – Occupational Health      |
| <b>E</b> – Tech Building           | <b>M</b> – KG                       |
| <b>F</b> – Power Station           | <b>N</b> – Inchrya Grange Hotel     |
| <b>G</b> – Laboratories            | <b>O</b> – Premier Inn Falkirk East |
| <b>H</b> – CHP Plant               | <b>P</b> – Travelodge Falkirk       |



# CANTEEN FACILITIES

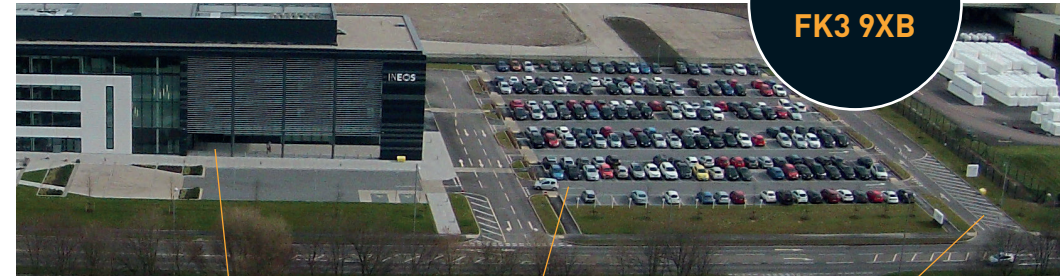
Daily healthy showcase cooking open for breakfast and lunch



# VISITOR INFORMATION

## O&P UK HQ BUILDING

SATNAV  
FK3 9XB



**PEDESTRIAN ENTRANCE**  
On arrival, please report to reception

**CAR PARKING**  
Designated visitor parking in first row. Please reverse park.

**ENTRANCE TO CAR PARK**

# USEFUL TELEPHONE NUMBERS

Main switchboard  
**01324 473400**  
and out of hours  
**01324 483422.**





[ineos.com](https://www.ineos.com)