National Planning Improvement



National Planning Hub: Planning for Hydrogen

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National Planning Improvement

Insights Report: Planning for Hydrogen

February 2025



Understanding/ Misunderstanding

Regulation

Process

Risk

Spatial





Hydrogen for clean, efficient energy

- √ Highest energy per mass of any carrier fuel*
 - ✓ Zero carbon fuel: emission = water
 - ✓ Can be sustainably produced
- ✓ Versatile, cheap, and efficient to transport
- * At any pressure, the volumetric energy density of natural gas exceeds that of hydrogen by a Common liquid energy carriers like methanol, propone and gasoline surpass liquid factors 1.8 to 3.4. respectively. US DOE, 2015

MODULE 1: BACKGROUND TO HYDROGEN

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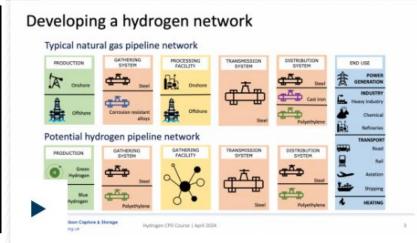
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MODULE 2: HYDROGEN PRODUCTION AND DEMAND

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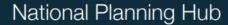
MODULE 3: HYDROGEN TRANSPORT AND STORAGE

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A Guide to Early Engagement in Planning for Hydrogen Developers May 2025



- why early engagement is important
- what good early engagement looks like
- when early engagement should take place
- how early engagement will be made to work effectively
- resources and organisations that can support you













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Hydrogen Planning Process Map



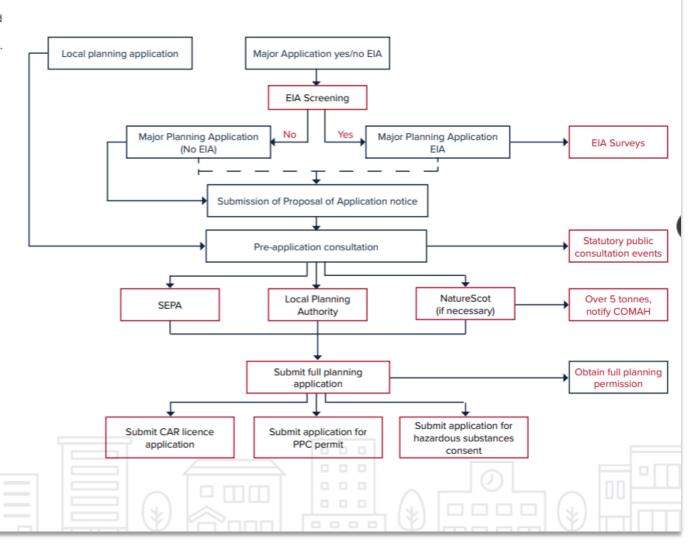
Consenting Hydrogen Projects in Scotland





This flowchart provides a routemap for consentinghydrogen projects in Scotland and should be read in conjunction with planning policy, legislation and guidance. This routemap does not provide an exhaustive list of consents or licences that may be required for a hydrogen development.

This diagram includes interactive elements. Boxes with a red outline indicates that there is additional information.



Roll out of SG Hydrogen Planning Guidance

Learning from Previous experiences

Risks, impacts and mitigations resource

Case studies

EIA support programme

Health and Safety Executive





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