BRUICHLADDICH

PROGRESSIVE HEBRIDEAN DISTILLERS

Tackling HEAT and ENERGY: the challenges facing distilleries

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Introduction

Tackling HEAT and ENERGY: the challenges facing distilleries

To Be

As Is

The Gap

In Summary

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To Be

More sustainable in all that we do.

Decarbonise our distilling by 2025.

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As Is

1 | **In order to manage our impact we measured our impact.**

2 | **Build our sustainability scorecard.**

3 | **Normalise the results, make them relevant.**

4 | **Energy - Electrical demand** **5%**

5 | **Energy - Heat demand** **88%**

6 | **Understand the Energy relationship** : CO_2 :

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The Gap

Phase 1 Renewables feasibility study

- Electrification
- Fuel switching options
- Biomass
- Anaerobic digestion
- Onshore Wind
- Solar
- Tidal
- Hydro
- Heat pumps
- Hydrogen
- Energy storage
- Carbon Capture & Storage
- Energy efficiencies

Phase 2 Renewables feasibility study

- Electrification of Heat
- Fuel switching options
- Biomass
- Onshore Wind
- Solar

Independent study

- Hydrogen (Project HyLaddie)

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The Gap

Subset from Phase 1 Renewables Feasibility Study results.

Renewable Technology		Challenges: Emissions	Availability	Infrastructure	Location	Planning	Subsidy *
Heat	Electrification		💧	💧			💧
	Fuel switching	💧	💧	💧			💧
	Biomass		💧	💧	💧	💧	💧
	Hydrogen		💧	💧	💧	💧	💧
Power	Onshore Wind		💧	💧	💧	💧	💧
	Solar		💧	💧	💧	💧	💧
	Tidal			💧	💧	💧	💧
	Energy Storage			💧	💧	💧	💧

* In all cases the pence / kWh is significantly increased by comparison to existing supplies.

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In Summary

As-Is ← **The Gap** → **To-Be**

1. **Build scorecard and baseline**
2. **Phase 1 Renewables Feasibility Study**
3. **Phase 2 Renewables Feasibility Study**
4. **Mitigate the challenges**

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