

## Sustainable Considerations for Distillery Setup

Will Edge, Greensand Ridge Distillery

- This is a list of considerations not requirements
- Source suppliers based on environmental considerations ahead of cost
- Don't believe yourself sustainable for quick wins if you avoid the hard questions
- Traditions shouldn't persist if they destroy the world

<b>ENERGY</b>	
Distilling Power	<ul style="list-style-type: none"> <li>• Green Electricity,</li> <li>• BioDiesel,</li> <li>• BioLPG,</li> <li>• Biomass</li> </ul>
Facilities Power	<ul style="list-style-type: none"> <li>• On-site generation (solarPV, Solar water)</li> <li>• Green Electricity</li> </ul>
Vehicles	<ul style="list-style-type: none"> <li>• BioLPG,</li> <li>• Hybrid,</li> <li>• Electric</li> </ul>
Heating	<ul style="list-style-type: none"> <li>• Recovered heat energy</li> <li>• Sustainable sources</li> </ul>
Energy Recovery	<ul style="list-style-type: none"> <li>• Heat recovery from stillage</li> <li>• Heat recovery from cooling water</li> <li>• Use heat to: preheat hot water, preheat fermentations, preheat distillations, heat warehouse</li> </ul>
<b>RAW MATERIALS &amp; CONSUMABLES</b>	
Fermentables	<ul style="list-style-type: none"> <li>• Appropriate to the local environment</li> <li>• Surplus or By-product for proportion or entirety</li> <li>• Organic</li> <li>• Assess suppliers for use of, e.g. glyphosate, copper sulphate etc</li> </ul>
Neutral Spirit	<ul style="list-style-type: none"> <li>• Assess suppliers for carbon intensity of production</li> <li>• Country of origin</li> <li>• Organic</li> </ul>
Bottles	<ul style="list-style-type: none"> <li>• Production close to point of use</li> <li>• Low weight</li> <li>• recycled/recyclable</li> <li>• Avoid mixed materials</li> <li>• Recyclable label backing paper/plastic</li> </ul>
Closures	<ul style="list-style-type: none"> <li>• Sustainably produced</li> <li>• Biodegradable</li> </ul>

	<ul style="list-style-type: none"> <li>● Avoid single use plastic / bonding agents</li> <li>● Non-plastic capsules</li> </ul>
Bulk & Refill	<ul style="list-style-type: none"> <li>● Bulk trade supply &amp; returnable containers</li> <li>● Retail refill on site</li> </ul>
Packaging	<ul style="list-style-type: none"> <li>● Recyclable (avoid plastic/card laminations)</li> <li>● Single-use decorations</li> <li>● Cardboard bottle protectors for retail sales</li> <li>● From recycled/FSC sources, unbleached</li> <li>● Pallets secured without stretch-wrap. Recyclable alternatives (or reusable - socks etc)</li> <li>● Paper tape, recyclable strapping</li> </ul>
Events	<ul style="list-style-type: none"> <li>● Request recycling provision at trade &amp; consumer shows</li> <li>● Request no single-use carpet in your show stands</li> <li>● Compostable or recyclable (<i>and recycled</i>) tasting cups</li> </ul>
<b>WATER &amp; CHEMICALS</b>	
Fermentations	<ul style="list-style-type: none"> <li>● No non-biodegradable cleaning agents &amp; adjuncts</li> </ul>
Vessels Cleaning	<ul style="list-style-type: none"> <li>● Steam (green electricity), heads (careful!), biodegradable enzyme cleaners</li> </ul>
Workplace Cleaning	<ul style="list-style-type: none"> <li>● non-scented plant-based degreasers &amp; detergents</li> </ul>
Cooling Water	<ul style="list-style-type: none"> <li>● Closed-loop cooling with heat recovery systems</li> </ul>
Production Water	<ul style="list-style-type: none"> <li>● On-site treatment &amp; purification</li> </ul>
<b>DISTRIBUTION</b>	
Inward	<ul style="list-style-type: none"> <li>● Insist suppliers change to non plastic/foam protection</li> <li>● Change suppliers to ones with better environmental credentials</li> <li>● Asses carbon intensity &amp; offset</li> </ul>
Outward	<ul style="list-style-type: none"> <li>● Green energy distribution where possible</li> <li>● Offset carbon intensity of distribution</li> <li>● Give customers the option to offset their shipments</li> </ul>
<b>WASTE</b>	
Fermentation	<ul style="list-style-type: none"> <li>● Solid organic to animal feed</li> <li>● Liquid organic to biodigestion</li> </ul>
Stillage	<ul style="list-style-type: none"> <li>● Recover heat, liquid organic to biodigestion</li> </ul>
Non-recyclable waste	<ul style="list-style-type: none"> <li>● Audit waste streams &amp; engage with companies to use alternatives</li> <li>● EG. Glassine paper, absorbent paper (blue roll), plastic dish cloths &amp; scourers, non-compostable vacuum bags, tasting cups, botanical supply containers</li> </ul>