



ST AUSTELL

EST. **FAMILY GROUP** 1851

GREEN WITH ENVY!

This Afternoon

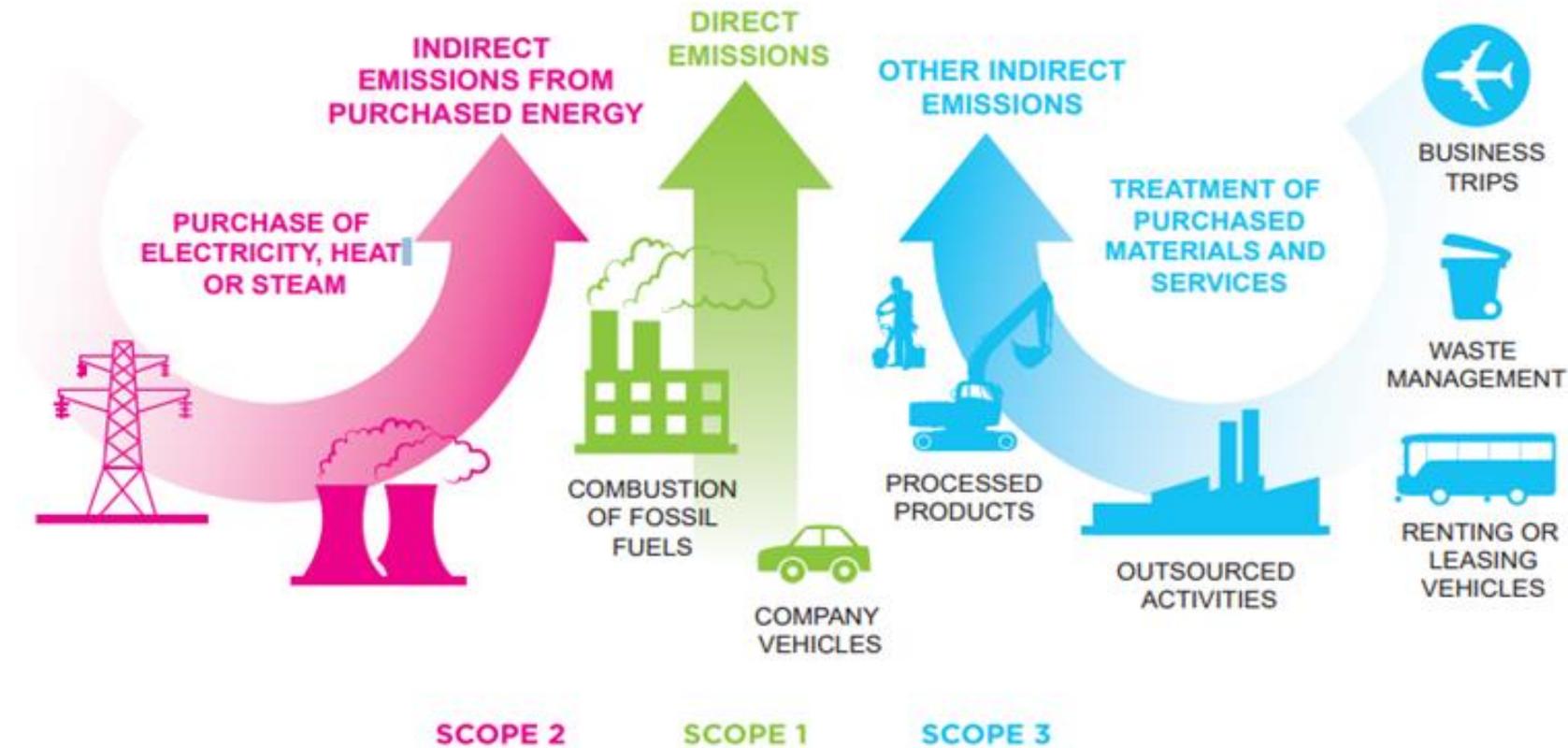
- Why me?
- Biggest risk to business
- St Austell's journey
- What's next?

Definitions

- **Carbon neutral:** measure greenhouse gases (GHGs) emitted into the atmosphere throughout the Lifecycle of your beer and buy carbon offsets to avoid the effect
- **Net Zero:** reduce GHG emissions to a residual level across the lifecycle of your beer and buy minimal offsets for remaining GHGs
- **Real Zero:** truly emit no GHG emissions

Scope

CO₂ SF₆ CH₄ N₂O NF₃ HFC_s PFC_s

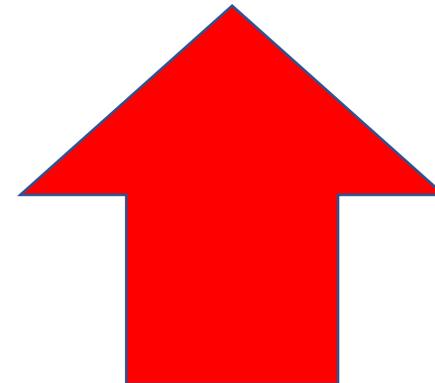


Why?

- Materials at risk
 - Barley
 - Wheat
 - Other cereals
 - Hops
 - Citrus

- Supply Chain Disruptions
 - Drought; flooding
 - War
 - Energy prices

1.5⁰C by 2030



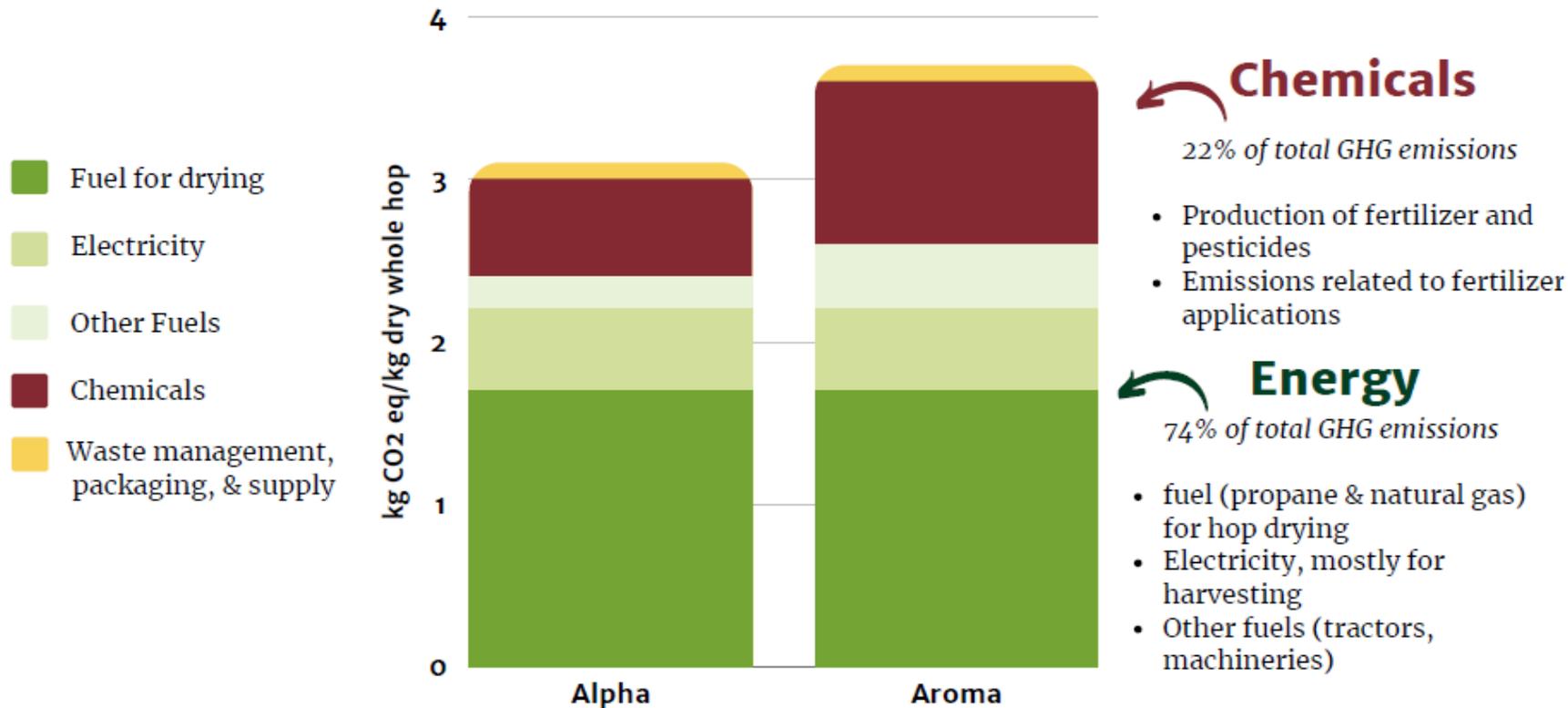
CARBON FOOTPRINT OF DRY WHOLE HOPS

3.1 kg CO₂ eq. is generated by the production of 1 kg of alpha whole hops

3.7 kg CO₂ eq. is generated by the production of 1 kg of aroma whole hops



Alpha and aroma hop varieties carry different carbon footprints because of the contrast in yield. Since alpha varieties generally yield higher, they require less inputs per kilogram.



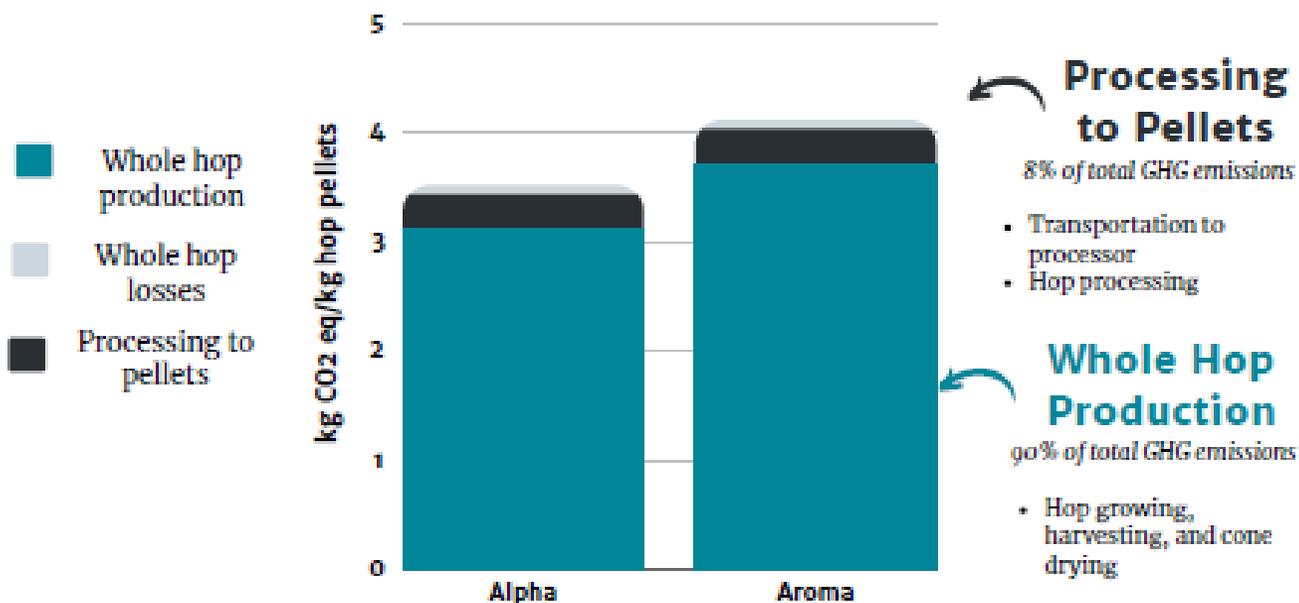
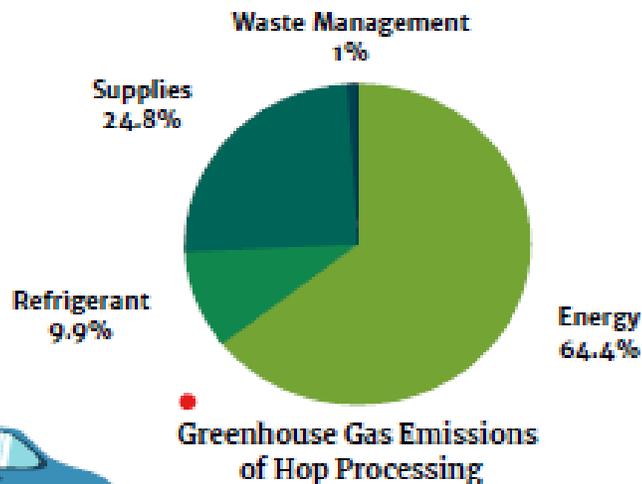
CARBON FOOTPRINT OF HOP PELLETS

The processing of 1.02 kg of dry whole hops into 1 kg of pellets generates .32 kg CO2 eq., meaning:

3.5 kg CO2 eq. is generated by the production of 1 kg of **alpha** hop pellets

4.1 kg CO2 eq. is generated by the production of 1 kg of **aroma** hop pellets

The greenhouse gas emissions generated by the production of 1 kg of hop pellets is equivalent to a 9-10 mile drive in an average passenger vehicle

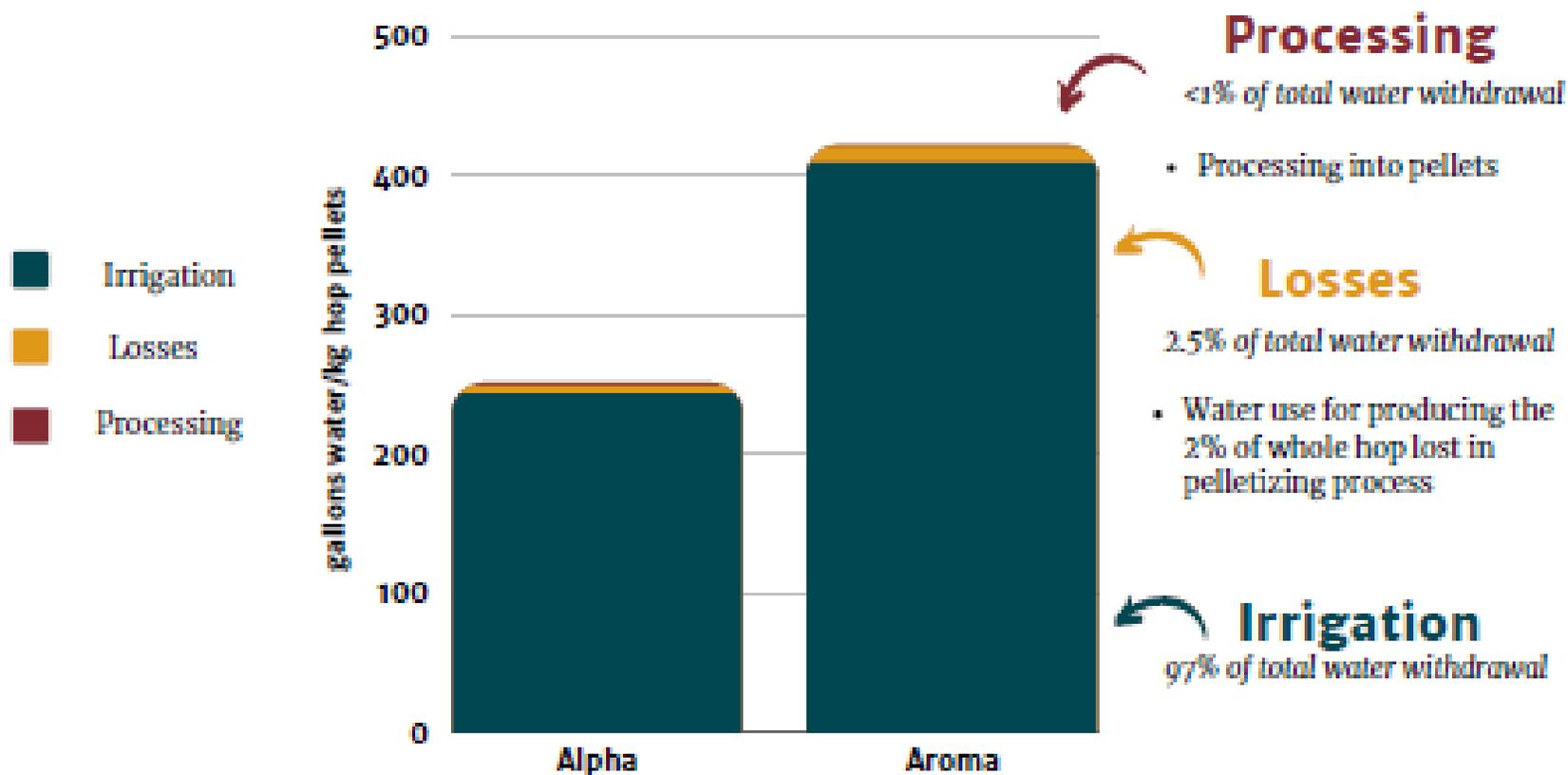


WATER FOOTPRINT OF HOP PELLETS

251 gallons of water is required to produce 1 kg of alpha hop pellets



423 gallons of water is required to produce 1 kg of aroma hop pellets



Business Case for going Net Zero

- **Customer and employee expectations of brands**
- **Stimulates innovation, growth, jobs and value creation**
- **Unifies all stakeholders**
- **Demonstrates shared value**
- **Direction of policy and regulation**
- **Reduces business risks**



OUR ESG PILLARS

'Working together to create a sustainable future for our business, that's fit for the next generation'



**OUR
PEOPLE**



**OUR
SUPPLIERS**



**OUR
COMMUNITIES**



**OUR
ENVIRONMENT**

What are we doing about it?



Light weight bottle and boxes!



Solar Panels

- 12% of the energy we use was powered by solar panels
- 400,000KWH generates enough power for 120 homes or our distribution operation
- Additional 120Kwp at Bath ales by end 2022



Distribution

- Long term updating the fleet.
- Our distribution business uses Quartex telematic systems which assists with load planning and driver behaviour to reduce road mileage and emissions.
- Minimum Order quantities have reduced our fleets mileage by 3% whilst orders up 19%



Rainbarrow Farm, Poundbury

J V ENERGEN LLP

Renewable Energy
Producing = Providing = Protecting
in Partnership



- Biogas from AD process
- CHP- electricity
- Digestate- fertiliser
- Full Biogas Production since Nov 2012
- CO₂ – from May 2020
- Feedstocks – Maize and Rye
- Biogas plant operation – 24/7 operation with scheduled maintenance outages





"This picture shows the biomethane burner of our effluent plant in action which powers the CPH (combined heat and power) engine that generates up to 65kW of electricity per hour."

Electric Vehicles & Charging

All new cars on the list are hybrid or fully electric with EV chargers being installed in the business before the end of the year.



Our Pubs

- All LEDs
- Trialling cellar cooling
- Utility audits
- Sourcing local foods
- E.g. all dairy from Rodda
- Supporting local charities eg Marine Conservation



The target of £1M is in our sights by 2023



- The St Austell Brewery Charitable Trust was set up in 2003 to support local charities, good causes and individuals in need across our South West operating area.
- To date, the Charitable Trust has raised and donated over **£850,000.**

Next steps in our Net Zero Journey

Measuring our own emissions footprint

Building a decarbonisation roadmap for our business

Making it happen!

Working together as an industry



Don't forget the 10 Rs!

- Responsibility
- Resist
- Reduce
- Return
- Repair
- Reuse
- Recycle
- Restore
- Respect
- Reach Out