

Construction of Sustainable tee's, bunker and green surrounds

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Presentation

- Introduction
- What does soil give us?
- Tee Construction
- Green and Bunker surrounds construction

Introduction

British Sugar National TOPSOIL Manager 20+ years

Worked for British Sugar for 32 years

Agricultural background

Volunteer groundsman for 25 years

RFU / IOG

National Volunteer Groundsman of the Year 2012



Our Sites: Four advanced manufacturing plants processing sugar beet in the UK

Lowest cost sugar processor in the EU

Newark

Details

- Circa. 190 permanent and seasonal employees
- 700 growers supply 1.6 million tonnes of sugar beet every year

Wissington

Details

- Circa. 400 permanent and seasonal employees
- 1,000 UK growers supply over three million tonnes of sugar beet every year
- Largest beet sugar factory in the world

Peterborough

Head Office
Circa. 200 permanent employees

Cantley

Details

- Circa. 160 permanent and seasonal employees
- Over 700 growers supply over 1.3 million tonnes of sugar beet every year
- Cantley was the first sugar factory built in the UK in 1912

Bury St Edmunds

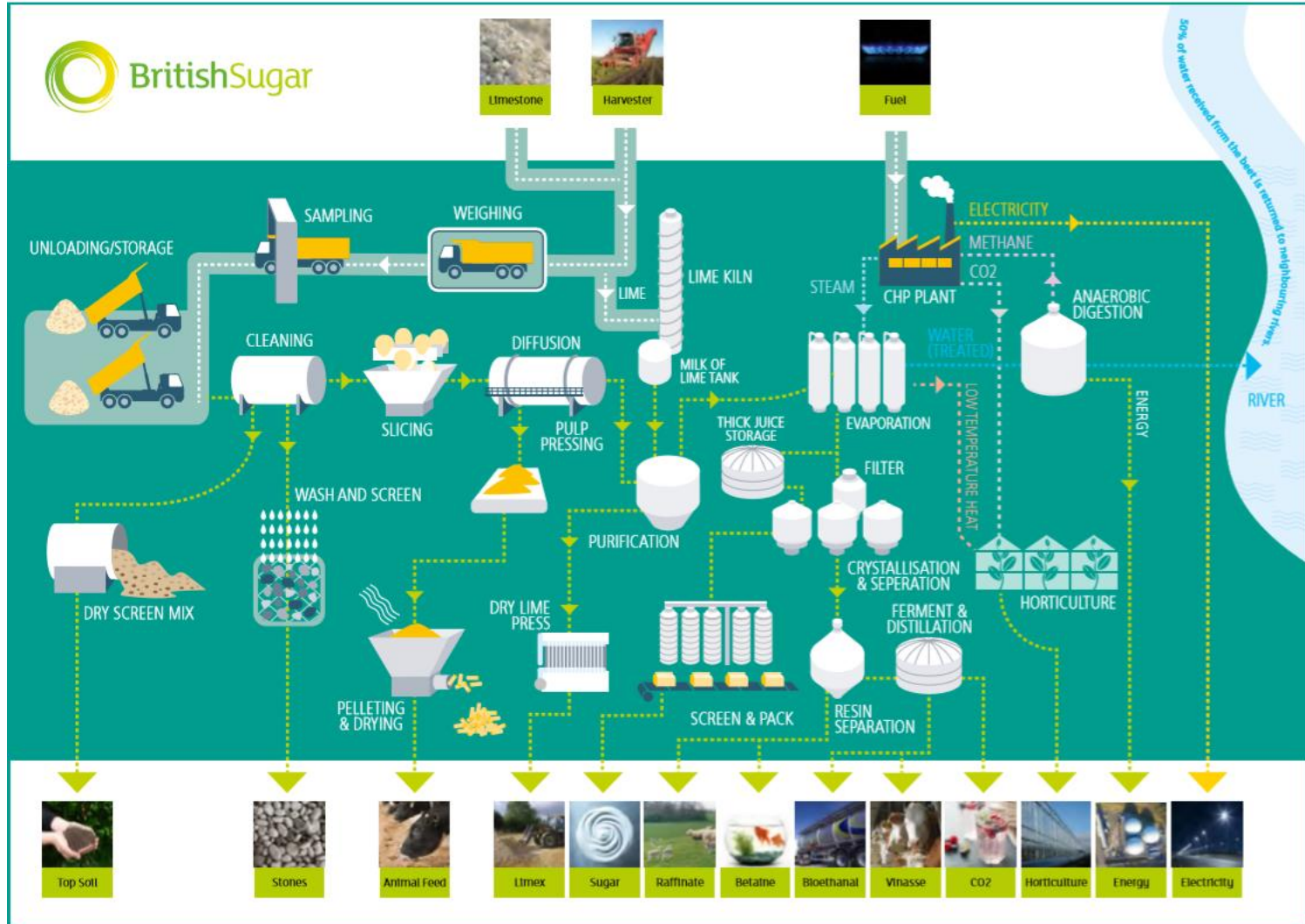
Details

- Circa. 360 permanent and seasonal employees
- Over 700 growers supply over two million tonnes of sugar beet every year
- Bagged sugar packaging facility

A sustainable operation: More than simply sugar

Power generation for a city the size of Peterborough

Fuel, animal feed, topsoil, pharmaceuticals



#BackBritishSugar: Average 28 miles from farm to factory

Creating a level playing field for the British beet sugar industry

What can you do to show your support?

- Buy homegrown British Sugar - look out for the Silver Spoon brand



- Show your support for a great British industry on Twitter (@BritishSugar)
- or Instagram (@BackBritishSugar) using #BackBritishSugar



- What does soil give us?
 - Tee Construction
- Green and Bunker surrounds construction

What does soil give us ?

Features	Benefits
Nutrients	<ul style="list-style-type: none">• Less feeding• Environmentally friendlier agronomy<ul style="list-style-type: none">• Quicker grass establishment• Healthier grass growth
Water holding capacity	<ul style="list-style-type: none">• Less reliant on irrigation• Quicker grass establishment<ul style="list-style-type: none">• Healthier grass growth
Slower percolation rate	<ul style="list-style-type: none">• Less reliant on irrigation• Quicker grass establishment<ul style="list-style-type: none">• Healthier grass growth
Holds its shape	<ul style="list-style-type: none">• Better looking and challenging features
Soil Microbes	<ul style="list-style-type: none">• Healthier grass growth

Tee Construction

Case study 1: Northwood GC



Used on site material as sub base

Placed Sports & Turf to a depth of 150mm

Seeded



Tee Construction

Case study 2: Middleton Hall GC

- Stripped off:
 - Existing turf
 - 150mm of old rootzone
- Repositioned tees more sprinkler heads added
- Laid 150mm of *Sports&Turf* 90/10 as rootzone
- Levelled up to the grass on the tee banks
- Treaded in and levelled
- Re-turfed



Green & Bunker Surrounds

Case study: Bury St Edmunds GC: The re-shaping and re-contouring of the green complex

- Method
 - Small number of trees and roots were removed
 - Courses natural sandy loam was shaped, de-compacted & levelled
 - 150mm -200mm of Landscape20 was placed
 - a dwarf perennial rye grass turf was laid over the *Landscape20*.
 - Throughout the entire operation the putting surface of the green was left intact.



Green & Bunker Surrounds



Bunker Construction using Landscape20



Over 1,000 tonnes of Landscape20 has been used as part of the two-year development plan to renovate 52 bunkers.

“Landscape20’s **year-to-year consistency** enables me to effectively work with the course and help deliver work with **lasting results**.”

- Peter Jones, Course Consultant and Agronomist

“Landscape20 is great at **promoting grass growth** throughout the year giving a **professional finish to bunkers**. Members have really enjoyed playing the course with the improvements that have been made.”

- Wesley Walker, Course Manager

British Sugar TOPSOIL Product Range

Available in bulk loads or bulk bags

Landscape **20**

Landscape20 is a fully-analysed and compliant to BS3882:2015, sandy loam, TOPSOIL. It is ideal for general landscaping projects such as seeding and turfing .

Hort **Loam**

HortLoam is a BS3882:2015 compliant planting topsoil. With optimum reserves of organic matter and nutrients, HortLoam is ideal for planting rootball trees, shrub bed, retained planters and vegetable planting projects.

Sports&Turf

Sports & Turf is ideal for use as a topdressing to repair badly damaged and divoted surfaces or for constructing tees. The blend of medium to coarse sand and soil gives good drainage whilst promoting grass establishment and growth.

SubSoil

General Purpose subsoil: Compliant to BS8601:2013 as a multi purpose subsoil. Suitable for general landscaping purposes, trees, shrubs and amenity grasses

Sports&Turf - Features and Benefits at a Glance

Features	Benefits
<p>90% total sand 50% V Coarse to Medium sand</p>	<ul style="list-style-type: none"> • Free draining • Easy to apply
<p>Sub Angular Sand</p>	<ul style="list-style-type: none"> • Open free draining • Less likely to cap
<p>Screened to 6mm</p>	<ul style="list-style-type: none"> • No issues with stones
<p>Typically contains 50% Coarse and Medium Sand</p>	<ul style="list-style-type: none"> • Won't block or cap existing fairway material
<p>BS3882:2015 compliant topsoil</p>	<ul style="list-style-type: none"> • Promotes and sustains growth <ul style="list-style-type: none"> • Nutrient retentive • Assists seed establishment
<p>STRI Analysed</p>	<ul style="list-style-type: none"> • Peace of mind
<p>Saturated Hydraulic Conductivity Average 10mm/hr</p>	<ul style="list-style-type: none"> • Performs in line with a Soil Based Pitch / Fairway standards • Assuming there is a good structure and a maintenance plan

Landscape20 - Features and Benefits at a Glance

Features	Benefits
Typically 60-65% sand	<ul style="list-style-type: none"> • Holds moisture in summer but free-draining in winter • Holds its shape
Valuable Horticultural Properties	<ul style="list-style-type: none"> • Good rates of growth when turving and planting
Regular Independent Analysis	<ul style="list-style-type: none"> • Confidence for regulators and clients • Compliant to BS3882:2015
No Chemical Contamination or Sharps	<ul style="list-style-type: none"> • Totally safe
Available All-Year-Around	<ul style="list-style-type: none"> • No downtime during major projects
Low Stone Content	<ul style="list-style-type: none"> • Eliminates expensive stone picking
One Source	<ul style="list-style-type: none"> • Consistent product and growth rates

To find out more about British Sugar TOPSOIL

To arrange a visit or for more information on TOPSOIL products call 0870 240 2314
or visit our web site www.bstopsoil.co.uk



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