SUSTAINABLE PLANT GUIDE

LYNCH

CONTENTS

SUSTAINABLE PLANT

HYBRID PLANT

- 20t Hybrid Excavators
- 40t Hybrid Excavators
- D6T Hybrid Dozers

ELECTRIC PLANT

- 1T Electric Skip Loading Dumpers
- 1T Electric Excavators
- 1.9T Electric Excavators
- 3T Electric Excavators
- 5T Electric Excavators
- 6M Electric Telehandlers
- 9T Electric Excavators
- 14T Electric Excavators
- 17M Electric Telehandlers
- 20T Electric Excavators
- 120 Rollers

ELECTRIC VEHICLES

- Electric Road Sweepers

ALTERNATIVE FUELS

ULTIMATE CELL

We are working closely with our customers to implement hydrogen-on-demand technology across their projects. Initial trials on excavators and dump trucks have demonstrated fuel savings ranging from **15% to 31%**, depending on the specific machine application. We will continue collaborating with our data teams to closely monitor machine performance and optimise results.

HVO FUELS

Our entire machinery fleet is fully compatible with HVO (Hydrotreated Vegetable Oil) fuel, supported by manufacturer guarantees. Sourced from **100% renewable materials**, HVO fuel can reduce emissions by up to **90%** compared to standard diesel. In addition, our machines can be supplied with bio-oil, which is non-hazardous if spilled and far safer for the environment.

DATA

TRAINING

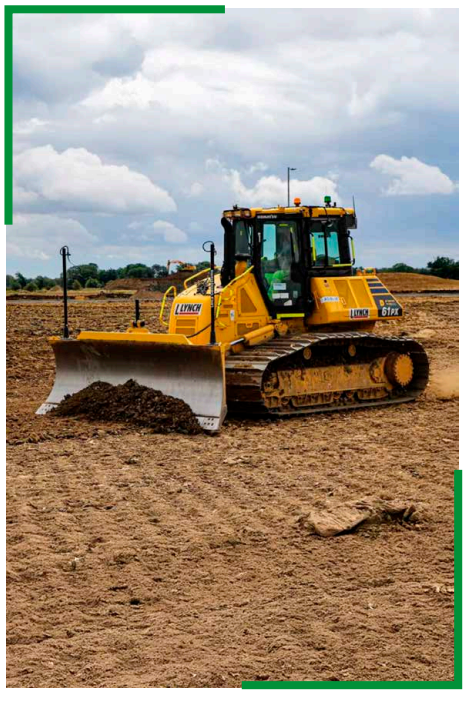
We deliver an NOCN-approved, award-winning **Eco Operator Training** course to all Lynch operators, designed to minimise unnecessary idling and reduce carbon emissions. In a pilot trial, the training resulted in a **46% reduction in daily carbon emissions**, demonstrating its effectiveness in driving more sustainable site operations

TELEMATICS

Our bespoke-built Customer Portal provides each customer with a unique login, granting instant access to a full telematics dashboard. This real-time insight allows you to identify wastage, unnecessary idling, and under-utilised equipment, empowering data-driven decisions that reduce carbon emissions and improve operational efficiency.

MACHINE CONTROL

Machine Control technology uses GPS to provide both the site and operator with instant feedback, resulting in greater accuracy and reduced machine hours. This precision lowers the need for rework, cutting fuel consumption and reducing carbon emissions. In a recent case study, GPS technology helped BAM Nuttall on their EA Flood Alleviation Scheme at Black Potts Weir, enhancing safety by eliminating the need for divers to manually place rock armour bags. The project was completed **six weeks ahead of schedule**, achieving a cost **saving of £500,000**.



CASE STUDIES

20T ELECTRIC EXCAVATOR - SANY SY215E

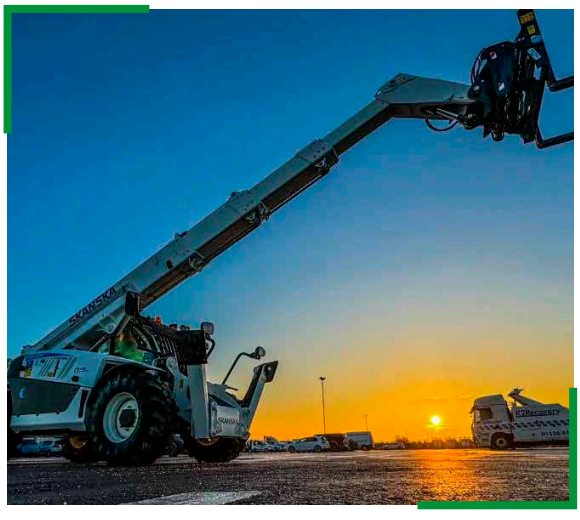
Lynch and SCS JV trialled a 20T electric excavator at HS2's Harvil Road site, testing its productivity and viability.

- Up to **10 hours running time**
- Cleaner, quieter, and highly efficient
- "**Electric excavators perform just as well as their diesel alternatives.**" – George Patel, Works Manager, SCS JV

17M ELECTRIC TELEHANDLER - FARESIN 17.45

Lynch provided fully electric 17m Faresin Telehandlers to Skasnka and National Highways for their flagship A428 Black Cat to Caxton Gibbet Road Improvement Scheme

- **£2.5k** fuel savings over six months
- **5,691kg** CO_2 reduction compared to diesel models
- Among the **first of their kind** in the UK



CASE STUDIES

40T HYBRID EXCAVATOR - KOMATSU HB365LC-3

Provided to BAM UK & Ireland on their Great Shefford Project.

Our hybrid 40T excavators deliver powerful performance while cutting emissions.

- **6,280 litres** of fuel saved in six months
- **£7,348** fuel cost savings
- **16,830kg** CO_2 reduction

14T ELECTRIC EXCAVATOR - KOMATSU PC138E-11

Trialled in partnership with Balfour Beatty on the M25 NEAR scheme, the 14T electric excavator demonstrated clear benefits.

- **507 litres** fuel saved in 19 days
- **£593** cost savings
- **1,355kg** CO_2 reduction

CASE STUDIES

9T ELECTRIC EXCAVATOR - HITACHI ZE85

One of the UK's first 9T Electric Excavators, trialled at HS2's Victoria Road Crossbox for SCS JV

- **£1,700** fuel savings over two months
- **3,875kg** CO_2 reduction

ELECTRIC ROAD SWEEPER - BUCHER MAXPOWA V65E

Supporting HS2, our electric sweeper operated continuously for over a year.

- **£11,000** fuel savings
- **25,750kg** CO_2 reduction
- Improved on-site efficiency

HELPING OUR CUSTOMERS BUILD BRITAINS INFRASTRUCTURE

LYNCH