



 **smart**  
architectural aluminium



**Responsible Sourcing Report 2019**





# Sustainability at Smart

## About Smart Architectural Aluminium

Over the past forty years, Smart has grown to become the UK's leading supplier of aluminium systems and bespoke aluminium extrusions, building a reputation for both the quality of its products and its product innovation, design and technical expertise. Our products and systems are proven in a wide range of new-build and refurbishment projects throughout the UK, spanning the complete range of commercial, public sector and residential applications.

Based in Yatton, North Somerset, our purpose-built premises house state-of-the-art extrusion, finishing, warehousing and distribution facilities. Our own fleet of lorries makes daily deliveries to a network of fabricators and installers across the UK. Employing around 600 people, we have an annual turnover in excess of £120 million.

## Our Approach

We are fully committed to working towards a greener, more sustainable environment, ensuring every aspect of our activities, from the procurement of raw materials to the delivery of finished goods, is conducted in accordance with sound environmental practices and in line with both UK and EU environmental regulations and legislation.

In the context of our business, we aim to promote an understanding of environmental issues among our staff, customers, suppliers and stakeholders, recognising our responsibilities to the delivery of long term, sustainable benefits. Our common goal is to ensure we continually improve the environmental impact of our global activities.

Throughout our development, environmental considerations have been central to our planning. To help formalise our processes and procedures, in 2011 we achieved ISO 14001:2004 Environmental Management Systems certification, and have maintained our certification via transition to ISO 14,001:2015.

As an ISO 14001 company, we regularly re-evaluate our working practices, ensuring we continually work to minimise the impact of our activities on the environment. As a result, we continue to invest in efficient machinery, effective environmental management systems and waste capture and recycling systems, as well as the use of sustainable power generation.

## Responsible Sourcing and BES 6001

Governments, specifiers and architects are increasingly focusing on sustainable development and the source of construction materials. BRE's standard, BES 6001, enables manufacturers to ensure and then prove their products have been made with constituent materials that have been responsibly sourced, providing an approach based on governance, supply chain and community interaction, with a focus on environmental performance improvements.

In 2016 we made the decision to pursue certification to BES 6001 following clarification regarding traceability of commodity traded materials, such as Bauxite in aluminium production.



Smart Systems Limited  
Riverside Way, South, Bromley  
Kent, SE14 4DU, UK  
Tel: 0181 606 1100  
Email: info@smart.co.uk

Tel: 0181 606 1100  
Email: info@smart.co.uk

Tel: 0181 606 1100  
www.smart.co.uk

## Responsible Sourcing Policy

Smart Systems is committed to carrying out its operations in a sustainable manner and in compliance with ISO 14,001, ISO 9,001, OHSAS 18,001 & ISO 50,001 requirements. To achieve this, Smart Systems shall:

1. Ensure that all materials are sourced in a responsible manner.
2. Materials that are purchased should be environmentally and ethically sound.
3. Look to source materials locally to reduce transportation impacts on the environment.
4. Continually manage its environmental, health and safety, and quality systems, and its operations by setting objectives and targets that are related to its significant environmental aspects. Monitor and review the performance against these objectives and targets.
5. Ensure that complaints are recorded and dealt with accordingly.
6. Liaise with the local community about its operations and the environment.
7. Ensure that water, waste, and energy are used efficiently and comes from a sustainable source or recycled where possible.
8. Be responsible of their sites and recognise the value of their heritage, ecological value and the biodiversity surrounding them.
9. Comply with applicable laws, legislation and other requirements relating to the Company's operations.
10. Ensure that all employees and contractors are familiar with this policy before carrying out any related works.

*ERB*  
Eddie Robinson  
Managing Director





# Responsible Sourcing & Supply Chain Management

How and from whom a company purchases materials can impact in many ways on the broader environment. By purchasing materials from suppliers who adopt responsible practices, we aim to stimulate demand for socially- and environmentally-preferable products.

Our finished profiles contain well over 90% of either aluminium or polyamide (which provides the thermal break to give a high performing u-value). We purchase raw materials and components from renowned suppliers with a proven ability to provide high quality goods at competitive prices.

However, we require much more than affordability from our suppliers; requiring them to have management systems in place to identify and reduce their quality, environmental and health and safety risks. As a direct result of this, a key supplier reports that their production sits below the industry average for energy consumption per kilogram of aluminium produced at 13.9kWh per kg; with 70% of their total production related energy consumption coming from renewable sources.

In 2019 we are pleased to report that 100% of our constituent materials came from suppliers that hold certification to ISO 9001:2015, ISO 14,001;2015 and OHSAS 18,001:2007 / ISO 45,001:2018



### Greenhouse Gas Emissions

Smart Systems are committed to carrying out our operations in a sustainable manner and in compliance with ISO 14001 and legislative requirements. In order to improve our 'carbon footprint' and achieve continual improvement in regard to Greenhouse Gases we shall:

1. Seek to continually reduce the greenhouse gas emissions in our transport and production processes where possible.
2. Seek to generate power from renewable sources.
3. Seek to reduce our energy consumption and improve our energy performance.
4. Set targets and objectives and monitor and review the performance against these objectives and targets.
5. Report these targets and objectives to the Company's stakeholders.
6. Comply with applicable legislation and other requirements relating to the Company's operations.
7. Ensure that all employees and contractors are familiar with this policy before carrying out any works.

Eddie Robinson – CEO

*ER*

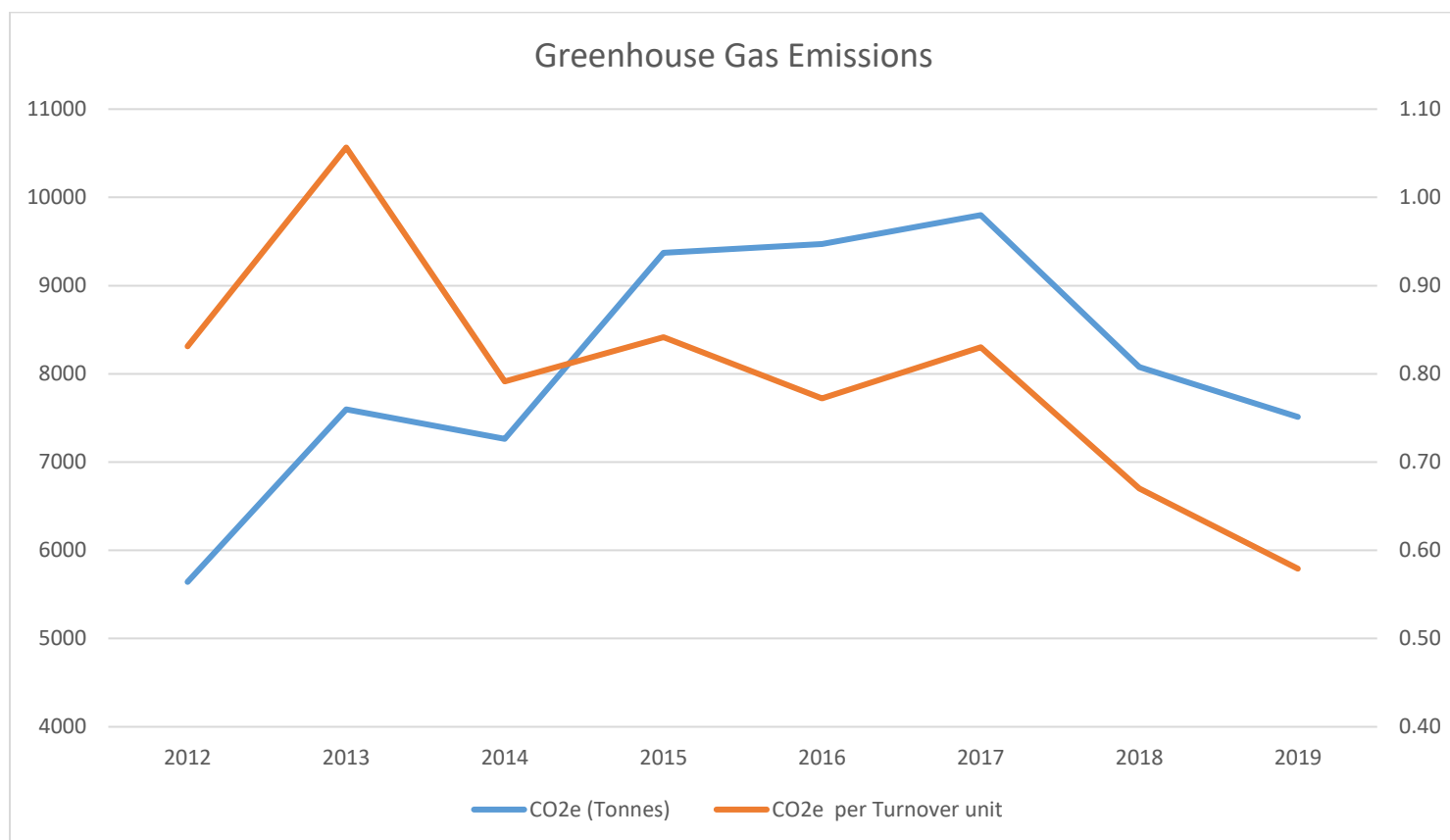


# Greenhouse Gas Emissions

We recognise that our operation is energy-intensive, and according to our ethics and legislative requirements, we aim to reduce greenhouse gas emissions in line with national commitments to the 2015 Paris Agreement.

Greenhouse emissions are produced from the combustion of natural gas and diesel on our site, as well as from our transport activities (including our delivery fleet, company vehicles and employee travel) and the electricity we purchase from the national grid.

Since 2010, restrictions of electricity supply to our site have required our extrusion operations to be powered by diesel generators. However, following significant capital investment in 2016, we gained our own independent grid supply, removing the inherent inefficiency of burning fossil fuels. In addition, we have planning permission to install two wind turbines on our site, which will potentially generate more than 15% of our extrusions electricity supply.







# Certificate of Registration

ENERGY MANAGEMENT SYSTEM - ISO 50001:2011

This is to certify that:

Smart Systems Ltd  
Incorporating s-  
Arncliffe Wa-  
rington  
BS4P  
UK

Holds Certificate No-  
and operates  
following -

ISO 14001 : 2004, ISO 9001 : 2008, BS EN 14001 : 2007, ISO 50001 : 2011, BS 4873, BS 7950/4783

Eddie Robinson - CEO



Smart Systems Ltd, Incorporating Extrusions and Tooling  
Integrated Management System Policy



Smart Systems Ltd are engaged in the procurement, production, sale, supply and stockholding of aluminium Architectural Glazing Systems, together with associated design activities; the extrusion of aluminium profiles via designed dies; the powder coating of aluminium systems, accessories & tooling. Smart Systems Ltd is capable of taking aluminium extrusion, anodising, rolling and clamping pre-treated and powder coating aluminium profile in a range of finishes, rolling and clamping products across the UK.

It is the policy of Smart Systems to follow management practices with the objective of achieving continual improvement to the benefit of the business and its stakeholders. Smarts are committed to the improvement in quality & energy performance and the prevention of injury, ill health, and pollution; to support this Smart Systems will ensure that information and resource is made available to allow objectives and targets to be realised. We shall abide by all relevant legislation and other requirements to which we subscribe.

In particular we will meet the requirements of the management systems standards, guides and other documents listed at the foot of this statement, these will be regularly reviewed together with this policy.

Furthering this commitment Smart Systems shall take into account energy and sustainability performance when purchasing equipment or services and during any design activities.

Hazards, risks, aspects, impacts and energy consumption associated with our activities shall be identified and objectives shall be set to minimise our negative impacts and to seek positive impacts upon our overall sustainability including inclusivity, integrity, stewardship and transparency.

This statement of policy will be communicated to all employees and sub-contractors and be made available to stakeholders or other interested parties upon request.

Standards to which Smarts subscribe:

Original  
Latest



This certificate was issued in accordance with the requirements of the BSI Standard BS 5400 Part 1:2003. It is valid for the period of 3 years from the date of issue. It is subject to the BSI rules of certification.

Subsidiary and/or licensee: BSI, 389, Market Lane, York YO1 1AB. Tel: 01904 707070. Fax: 01904 707071. Email: bsi@bsi.co.uk



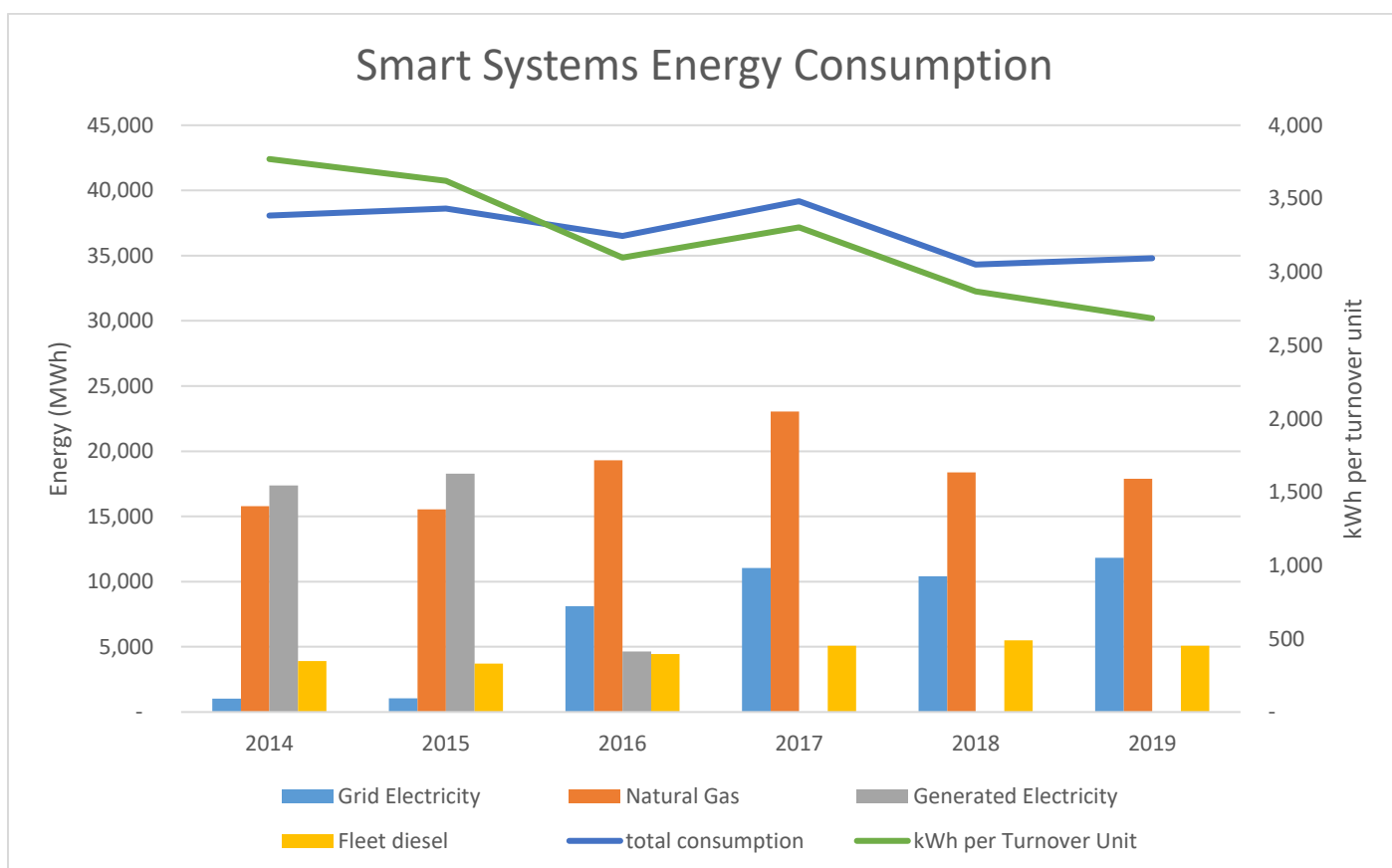
# Energy Use and Management

Energy management is a crucial element of our management of capacity, cost, emissions and future development. In 2015 in line with the energy savings opportunities scheme, we achieved ISO 50001:2011 certification, later transitioning to ISO 50,001:2018.

ISO 50001 is based on the continuous improvement business model, which is also used for standards such as ISO 9001 and ISO 14001. This makes it easier for organisations to integrate energy management into their quality and environmental management systems.

ISO 50001:2011 provides a framework of requirements for organisations to develop policy; set targets and objectives; use data to better understand and make decisions about energy usage; measure the results and then take appropriate improvement actions to continually improve energy management based on reviews of the system.

Since 2015 we have put in place a number of projects and plans to reduce our electricity and diesel consumption, improving our energy performance with respect to our overall output.





Smart Systems Limited  
Units 10, 11, 12, 13, 14, 15  
16-17, 18-19, 20-21, 22-23  
24-25, 26-27, 28-29, 30-31  
32-33, 34-35, 36-37, 38-39  
40-41, 42-43, 44-45, 46-47  
48-49, 50-51, 52-53, 54-55  
56-57, 58-59, 60-61, 62-63  
64-65, 66-67, 68-69, 70-71  
72-73, 74-75, 76-77, 78-79  
80-81, 82-83, 84-85, 86-87  
88-89, 90-91, 92-93, 94-95  
96-97, 98-99, 100-101  
102-103, 104-105, 106-107  
108-109, 110-111, 112-113  
114-115, 116-117, 118-119  
120-121, 122-123, 124-125  
126-127, 128-129, 130-131  
132-133, 134-135, 136-137  
138-139, 140-141, 142-143  
144-145, 146-147, 148-149  
150-151, 152-153, 154-155  
156-157, 158-159, 160-161  
162-163, 164-165, 166-167  
168-169, 170-171, 172-173  
174-175, 176-177, 178-179  
180-181, 182-183, 184-185  
186-187, 188-189, 190-191  
192-193, 194-195, 196-197  
198-199, 200-201, 202-203  
204-205, 206-207, 208-209  
210-211, 212-213, 214-215  
216-217, 218-219, 220-221  
222-223, 224-225, 226-227  
228-229, 230-231, 232-233  
234-235, 236-237, 238-239  
240-241, 242-243, 244-245  
246-247, 248-249, 250-251  
252-253, 254-255, 256-257  
258-259, 260-261, 262-263  
264-265, 266-267, 268-269  
270-271, 272-273, 274-275  
276-277, 278-279, 280-281  
282-283, 284-285, 286-287  
288-289, 290-291, 292-293  
294-295, 296-297, 298-299  
300-301, 302-303, 304-305  
306-307, 308-309, 310-311  
312-313, 314-315, 316-317  
318-319, 320-321, 322-323  
324-325, 326-327, 328-329  
330-331, 332-333, 334-335  
336-337, 338-339, 340-341  
342-343, 344-345, 346-347  
348-349, 350-351, 352-353  
354-355, 356-357, 358-359  
360-361, 362-363, 364-365  
366-367, 368-369, 370-371  
372-373, 374-375, 376-377  
378-379, 380-381, 382-383  
384-385, 386-387, 388-389  
390-391, 392-393, 394-395  
396-397, 398-399, 400-401  
402-403, 404-405, 406-407  
408-409, 410-411, 412-413  
414-415, 416-417, 418-419  
420-421, 422-423, 424-425  
426-427, 428-429, 430-431  
432-433, 434-435, 436-437  
438-439, 440-441, 442-443  
444-445, 446-447, 448-449  
450-451, 452-453, 454-455  
456-457, 458-459, 460-461  
462-463, 464-465, 466-467  
468-469, 470-471, 472-473  
474-475, 476-477, 478-479  
480-481, 482-483, 484-485  
486-487, 488-489, 490-491  
492-493, 494-495, 496-497  
498-499, 500-501, 502-503  
504-505, 506-507, 508-509  
510-511, 512-513, 514-515  
516-517, 518-519, 520-521  
522-523, 524-525, 526-527  
528-529, 530-531, 532-533  
534-535, 536-537, 538-539  
540-541, 542-543, 544-545  
546-547, 548-549, 550-551  
552-553, 554-555, 556-557  
558-559, 560-561, 562-563  
564-565, 566-567, 568-569  
570-571, 572-573, 574-575  
576-577, 578-579, 580-581  
582-583, 584-585, 586-587  
588-589, 590-591, 592-593  
594-595, 596-597, 598-599  
600-601, 602-603, 604-605  
606-607, 608-609, 610-611  
612-613, 614-615, 616-617  
618-619, 620-621, 622-623  
624-625, 626-627, 628-629  
630-631, 632-633, 634-635  
636-637, 638-639, 640-641  
642-643, 644-645, 646-647  
648-649, 650-651, 652-653  
654-655, 656-657, 658-659  
660-661, 662-663, 664-665  
666-667, 668-669, 670-671  
672-673, 674-675, 676-677  
678-679, 680-681, 682-683  
684-685, 686-687, 688-689  
690-691, 692-693, 694-695  
696-697, 698-699, 700-701  
702-703, 704-705, 706-707  
708-709, 710-711, 712-713  
714-715, 716-717, 718-719  
720-721, 722-723, 724-725  
726-727, 728-729, 730-731  
732-733, 734-735, 736-737  
738-739, 740-741, 742-743  
744-745, 746-747, 748-749  
750-751, 752-753, 754-755  
756-757, 758-759, 760-761  
762-763, 764-765, 766-767  
768-769, 770-771, 772-773  
774-775, 776-777, 778-779  
780-781, 782-783, 784-785  
786-787, 788-789, 790-791  
792-793, 794-795, 796-797  
798-799, 800-801, 802-803  
804-805, 806-807, 808-809  
810-811, 812-813, 814-815  
816-817, 818-819, 820-821  
822-823, 824-825, 826-827  
828-829, 830-831, 832-833  
834-835, 836-837, 838-839  
840-841, 842-843, 844-845  
846-847, 848-849, 850-851  
852-853, 854-855, 856-857  
858-859, 860-861, 862-863  
864-865, 866-867, 868-869  
870-871, 872-873, 874-875  
876-877, 878-879, 880-881  
882-883, 884-885, 886-887  
888-889, 890-891, 892-893  
894-895, 896-897, 898-899  
900-901, 902-903, 904-905  
906-907, 908-909, 910-911  
912-913, 914-915, 916-917  
918-919, 920-921, 922-923  
924-925, 926-927, 928-929  
930-931, 932-933, 934-935  
936-937, 938-939, 940-941  
942-943, 944-945, 946-947  
948-949, 950-951, 952-953  
954-955, 956-957, 958-959  
960-961, 962-963, 964-965  
966-967, 968-969, 970-971  
972-973, 974-975, 976-977  
978-979, 980-981, 982-983  
984-985, 986-987, 988-989  
990-991, 992-993, 994-995  
996-997, 998-999, 1000-1001  
1002-1003, 1004-1005, 1006-1007  
1008-1009, 1010-1011, 1012-1013  
1014-1015, 1016-1017, 1018-1019  
1020-1021, 1022-1023, 1024-1025  
1026-1027, 1028-1029, 1030-1031  
1032-1033, 1034-1035, 1036-1037  
1038-1039, 1040-1041, 1042-1043  
1044-1045, 1046-1047, 1048-1049  
1050-1051, 1052-1053, 1054-1055  
1056-1057, 1058-1059, 1060-1061  
1062-1063, 1064-1065, 1066-1067  
1068-1069, 1070-1071, 1072-1073  
1074-1075, 1076-1077, 1078-1079  
1080-1081, 1082-1083, 1084-1085  
1086-1087, 1088-1089, 1090-1091  
1092-1093, 1094-1095, 1096-1097  
1098-1099, 1100-1101, 1102-1103  
1104-1105, 1106-1107, 1108-1109  
1110-1111, 1112-1113, 1114-1115  
1116-1117, 1118-1119, 1120-1121  
1122-1123, 1124-1125, 1126-1127  
1128-1129, 1130-1131, 1132-1133  
1134-1135, 1136-1137, 1138-1139  
1140-1141, 1142-1143, 1144-1145  
1146-1147, 1148-1149, 1150-1151  
1152-1153, 1154-1155, 1156-1157  
1158-1159, 1160-1161, 1162-1163  
1164-1165, 1166-1167, 1168-1169  
1170-1171, 1172-1173, 1174-1175  
1176-1177, 1178-1179, 1180-1181  
1182-1183, 1184-1185, 1186-1187  
1188-1189, 1190-1191, 1192-1193  
1194-1195, 1196-1197, 1198-1199  
1200-1201, 1202-1203, 1204-1205  
1206-1207, 1208-1209, 1210-1211  
1212-1213, 1214-1215, 1216-1217  
1218-1219, 1220-1221, 1222-1223  
1224-1225, 1226-1227, 1228-1229  
1230-1231, 1232-1233, 1234-1235  
1236-1237, 1238-1239, 1240-1241  
1242-1243, 1244-1245, 1246-1247  
1248-1249, 1250-1251, 1252-1253  
1254-1255, 1256-1257, 1258-1259  
1260-1261, 1262-1263, 1264-1265  
1266-1267, 1268-1269, 1270-1271  
1272-1273, 1274-1275, 1276-1277  
1278-1279, 1280-1281, 1282-1283  
1284-1285, 1286-1287, 1288-1289  
1290-1291, 1292-1293, 1294-1295  
1296-1297, 1298-1299, 1300-1301  
1302-1303, 1304-1305, 1306-1307  
1308-1309, 1310-1311, 1312-1313  
1314-1315, 1316-1317, 1318-1319  
1320-1321, 1322-1323, 1324-1325  
1326-1327, 1328-1329, 1330-1331  
1332-1333, 1334-1335, 1336-1337  
1338-1339, 1340-1341, 1342-1343  
1344-1345, 1346-1347, 1348-1349  
1350-1351, 1352-1353, 1354-1355  
1356-1357, 1358-1359, 1360-1361  
1362-1363, 1364-1365, 1366-1367  
1368-1369, 1370-1371, 1372-1373  
1374-1375, 1376-1377, 1378-1379  
1380-1381, 1382-1383, 1384-1385  
1386-1387, 1388-1389, 1390-1391  
1392-1393, 1394-1395, 1396-1397  
1398-1399, 1400-1401, 1402-1403  
1404-1405, 1406-1407, 1408-1409  
1410-1411, 1412-1413, 1414-1415  
1416-1417, 1418-1419, 1420-1421  
1422-1423, 1424-1425, 1426-1427  
1428-1429, 1430-1431, 1432-1433  
1434-1435, 1436-1437, 1438-1439  
1440-1441, 1442-1443, 1444-1445  
1446-1447, 1448-1449, 1450-1451  
1452-1453, 1454-1455, 1456-1457  
1458-1459, 1460-1461, 1462-1463  
1464-1465, 1466-1467, 1468-1469  
1470-1471, 1472-1473, 1474-1475  
1476-1477, 1478-1479, 1480-1481  
1482-1483, 1484-1485, 1486-1487  
1488-1489, 1490-1491, 1492-1493  
1494-1495, 1496-1497, 1498-1499  
1500-1501, 1502-1503, 1504-1505  
1506-1507, 1508-1509, 1510-1511  
1512-1513, 1514-1515, 1516-1517  
1518-1519, 1520-1521, 1522-1523  
1524-1525, 1526-1527, 1528-1529  
1530-1531, 1532-1533, 1534-1535  
1536-1537, 1538-1539, 1540-1541  
1542-1543, 1544-1545, 1546-1547  
1548-1549, 1550-1551, 1552-1553  
1554-1555, 1556-1557, 1558-1559  
1560-1561, 1562-1563, 1564-1565  
1566-1567, 1568-1569, 1570-1571  
1572-1573, 1574-1575, 1576-1577  
1578-1579, 1580-1581, 1582-1583  
1584-1585, 1586-1587, 1588-1589  
1590-1591, 1592-1593, 1594-1595  
1596-1597, 1598-1599, 1600-1601  
1602-1603, 1604-1605, 1606-1607  
1608-1609, 1610-1611, 1612-1613  
1614-1615, 1616-1617, 1618-1619  
1620-1621, 1622-1623, 1624-1625  
1626-1627, 1628-1629, 1630-1631  
1632-1633, 1634-1635, 1636-1637  
1638-1639, 1640-1641, 1642-1643  
1644-1645, 1646-1647, 1648-1649  
1650-1651, 1652-1653, 1654-1655  
1656-1657, 1658-1659, 1660-1661  
1662-1663, 1664-1665, 1666-1667  
1668-1669, 1670-1671, 1672-1673  
1674-1675, 1676-1677, 1678-1679  
1680-1681, 1682-1683, 1684-1685  
1686-1687, 1688-1689, 1690-1691  
1692-1693, 1694-1695, 1696-1697  
1698-1699, 1700-1701, 1702-1703  
1704-1705, 1706-1707, 1708-1709  
1710-1711, 1712-1713, 1714-1715  
1716-1717, 1718-1719, 1720-1721  
1722-1723, 1724-1725, 1726-1727  
1728-1729, 1730-1731, 1732-1733  
1734-1735, 1736-1737, 1738-1739  
1740-1741, 1742-1743, 1744-1745  
1746-1747, 1748-1749, 1750-1751  
1752-1753, 1754-1755, 1756-1757  
1758-1759, 1760-1761, 1762-1763  
1764-1765, 1766-1767, 1768-1769  
1770-1771, 1772-1773, 1774-1775  
1776-1777, 1778-1779, 1780-1781  
1782-1783, 1784-1785, 1786-1787  
1788-1789, 1790-1791, 1792-1793  
1794-1795, 1796-1797, 1798-1799  
1800-1801, 1802-1803, 1804-1805  
1806-1807, 1808-1809, 1810-1811  
1812-1813, 1814-1815, 1816-1817  
1818-1819, 1820-1821, 1822-1823  
1824-1825, 1826-1827, 1828-1829  
1830-1831, 1832-1833, 1834-1835  
1836-1837, 1838-1839, 1840-1841  
1842-1843, 1844-1845, 1846-1847  
1848-1849, 1850-1851, 1852-1853  
1854-1855, 1856-1857, 1858-1859  
1860-1861, 1862-1863, 1864-1865  
1866-1867, 1868-1869, 1870-1871  
1872-1873, 1874-1875, 1876-1877  
1878-1879, 1880-1881, 1882-1883  
1884-1885, 1886-1887, 1888-1889  
1890-1891, 1892-1893, 1894-1895  
1896-1897, 1898-1899, 1900-1901  
1902-1903, 1904-1905, 1906-1907  
1908-1909, 1910-1911, 1912-1913  
1914-1915, 1916-1917, 1918-1919  
1920-1921, 1922-1923, 1924-1925  
1926-1927, 1928-1929, 1930-1931  
1932-1933, 1934-1935, 1936-1937  
1938-1939, 1940-1941, 1942-1943  
1944-1945, 1946-1947, 1948-1949  
1950-1951, 1952-1953, 1954-1955  
1956-1957, 1958-1959, 1960-1961  
1962-1963, 1964-1965, 1966-1967  
1968-1969, 1970-1971, 1972-1973  
1974-1975, 1976-1977, 1978-1979  
1980-1981, 1982-1983, 1984-1985  
1986-1987, 1988-1989, 1990-1991  
1992-1993, 1994-1995, 1996-1997  
1998-1999, 2000-2001, 2002-2003  
2004-2005, 2006-2007, 2008-2009  
2010-2011, 2012-2013, 2014-2015  
2016-2017, 2018-2019, 2020-2021  
2022-2023, 2024-2025, 2026-2027  
2028-2029, 2030-2031, 2032-2033  
2034-2035, 2036-2037, 2038-2039  
2040-2041, 2042-2043, 2044-2045  
2046-2047, 2048-2049, 2050-2051  
2052-2053, 2054-2055, 2056-2057  
2058-2059, 2060-2061, 2062-2063  
2064-2065, 2066-2067, 2068-2069  
2070-2071, 2072-2073, 2074-2075  
2076-2077, 2078-2079, 2080-2081  
2082-2083, 2084-2085, 2086-2087  
2088-2089, 2090-2091, 2092-2093  
2094-2095, 2096-2097, 2098-2099  
2100-2101, 2102-2103, 2104-2105  
2106-2107, 2108-2109, 2110-2111  
2112-2113, 2114-2115, 2116-2117  
2118-2119, 2120-2121, 2122-2123  
2124-2125, 2126-2127, 2128-2129  
2130-2131, 2132-2133, 2134-2135  
2136-2137, 2138-2139, 2140-2141  
2142-2143, 2144-2145, 2146-2147  
2148-2149, 2150-2151, 2152-2153  
2154-2155, 2156-2157, 2158-2159  
2160-2161, 2162-2163, 2164-2165  
2166-2167, 2168-2169, 2170-2171  
2172-2173, 2174-2175, 2176-2177  
2178-2179, 2180-2181, 2182-2183  
2184-2185, 2186-2187, 2188-2189  
2190-2191, 2192-2193, 2194-2195  
2196-2197, 2198-2199, 2200-2201  
2202-2203, 2204-2205, 2206-2207  
2208-2209, 2210-2211, 2212-2213  
2214-2215, 2216-2217, 2218-2219  
2220-2221, 2222-2223, 2224-2225  
2226-2227, 2228-2229, 2230-2231  
2232-2233, 2234-2235, 2236-2237  
2238-2239, 2240-2241, 2242-2243  
2244-2245, 2246-2247, 2248-2249  
2250-2251, 2252-2253, 2254-2255  
2256-2257, 2258-2259, 2260-2261  
2262-2263, 2264-2265, 2266-2267  
2268-2269, 2270-2271, 2272-2273  
2274-2275, 2276-2277, 2278-2279  
2280-2281, 2282-2283, 2284-2285  
2286-2287, 2288-2289, 2290-2291  
2292-2293, 2294-2295, 2296-2297  
2298-2299, 2300-2301, 2302-2303  
2304-2305, 2306-2307, 2308-2309  
2310-2311, 2312-2313, 2314-2315  
2316-2317, 2318-2319, 2320-2321  
2322-2323, 2324-2325, 2326-2327  
2328-2329, 2330-2331, 2332-2333  
2334-2335, 2336-2337, 2338-2339  
2340-2341, 2342-2343, 2344-2345  
2346-2347, 2348-2349, 2350-2351  
2352-2353, 2354-2355, 2356-2357  
2358-2359, 2360-2361, 2362-2363  
2364-2365, 2366-2367, 2368-2369  
2370-2371, 2372-2373, 2374-2375  
2376-2377, 2378-2379, 2380-2381  
2382-2383, 2384-2385, 2386-2387  
2388-2389, 2390-2391, 2392-2393  
2394-2395, 2396-2397, 2398-2399  
2400-2401, 2402-2403, 2404-2405  
2406-2407, 2408-2409, 2410-2411  
2412-2413, 2414-2415, 2416-2417  
2418-2419, 2420-2421, 2422-2423  
2424-2425, 2426-2427, 2428-2429  
2430-2431, 2432-2



## Waste Prevention and Management

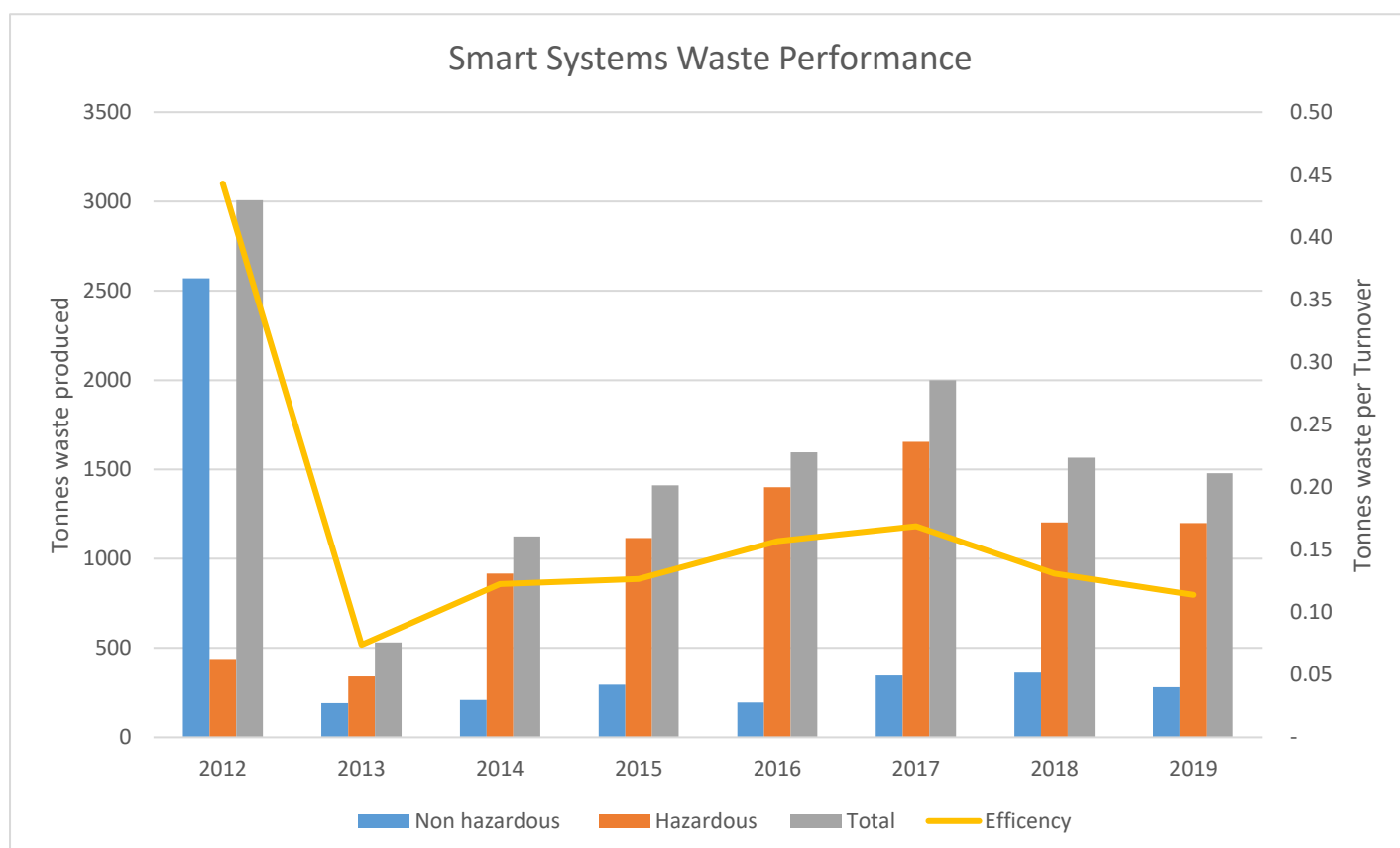
As a large manufacturing company, we generate waste in various forms - from routine inert office wastes to spent chemicals. As part of our commitment to prevent pollution and fully adhere to legal requirements, we ensure our waste is correctly separated and stored, ready for collection by our selected waste contractors, with whom we are pursuing a zero-to-landfill contract.

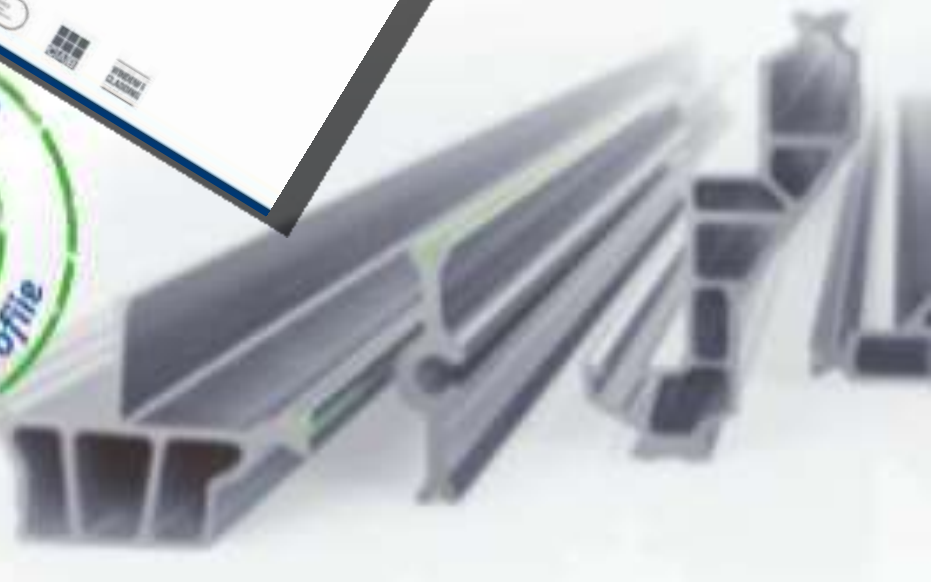
Across the aluminium extrusion sector, it is estimated that around 15% of extrusions will not be fit for their intended purpose. Rather than this material being declared waste, we instead collect it and transport it for re-melting, receiving re-formed billet in return.

We have also considered waste when developing our manufacturing processes. Our powder coating lines recover and reuse up to 95% of excess powder to reduce our waste burden; powders we use are chromate free to reduce the amount of hazardous waste we produce; incoming packaging is reused onsite for material storage and we deliver our profiles in fully reusable stillages.

Furthermore, by ensuring that nothing we add to our profiles impedes recycling when an installed system reaches the end of its useful life, it can easily be recovered and sent for re-melting. However, the performance of our systems allows simply for the glazing component of an installed unit to be replaced in order to encourage post-consumer reuse; whilst installed accessories can be replaced to update the look of the unit.

Data reported below mirrors the information submitted to the Environment Agency annually.







## Resource Use

We are committed to reducing the environmental impact of our products, the constituent materials of which are aluminium (supplied to us as billet) and polyamide insulating profiles. We then offer a 60um powder coat to ensure long life and offer a range of colours. It is pleasing to report that in 2019 25.7% of our incoming billet was recycled rather than first use; and both vertical powder coating lines capture and reuse 98% of excess powder.

Through the design of our systems and their related profiles, we seek to minimise the amount of material used, whilst retaining the strength and durability of the finished products. To that end, we provide software tools and training to our customers, enabling them to assess minimum profile criteria based on wind load/specification; reduce wastage by optimising cutting of material during fabrication and offer bespoke, project-specific designs tailored to meet specific performance requirements.

We also recognise that our products have an impact on resource use at the end of their lives, and as such have taken measures to allow repairs, maintenance and upgradability through glazing and hardware to be carried out. Once our products reach the end of their life, they have a typical recycle rate of 95% and, as aluminium is widely recycled and contains no hazardous material, it requires no dedicated retrieval scheme.



Smart Systems Limited  
Business Unit System Division  
Dunstable, Bedfordshire LU8 3LH  
http://www.smartaluminium.co.uk

Tel: 01753 812 100  
sales@smartaluminium.co.uk

Tel: 01753 812 101  
www.smartaluminium.co.uk

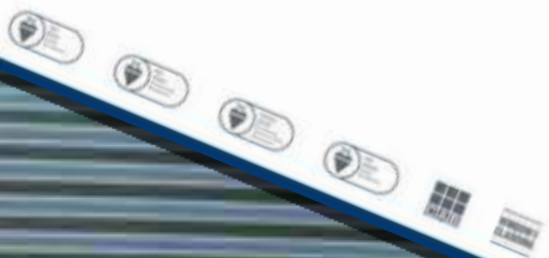
## Water Abstraction and management

As part of our commitment to the protection of the environment and continual improvement in our environmental performance, with regard to water abstraction and management it is the policy of Smart Systems to:

1. Seek to continually reduce mains water intensity in production processes.
2. Seek to continually increase the use of harvested water within production processes.
3. Seek to increase the reuse and recycling of water within production processes.
4. Set targets and objectives and monitor and review the performance against these objectives and targets.
5. Report these targets and objectives to the Company's stakeholders.
6. Comply with applicable legislation and other requirements relating to the Company's operations.
7. Ensure that all employees and contractors are familiar with related processes before carrying out any works.

Eddie Robinson - CEO

*ER*





## Water Abstraction

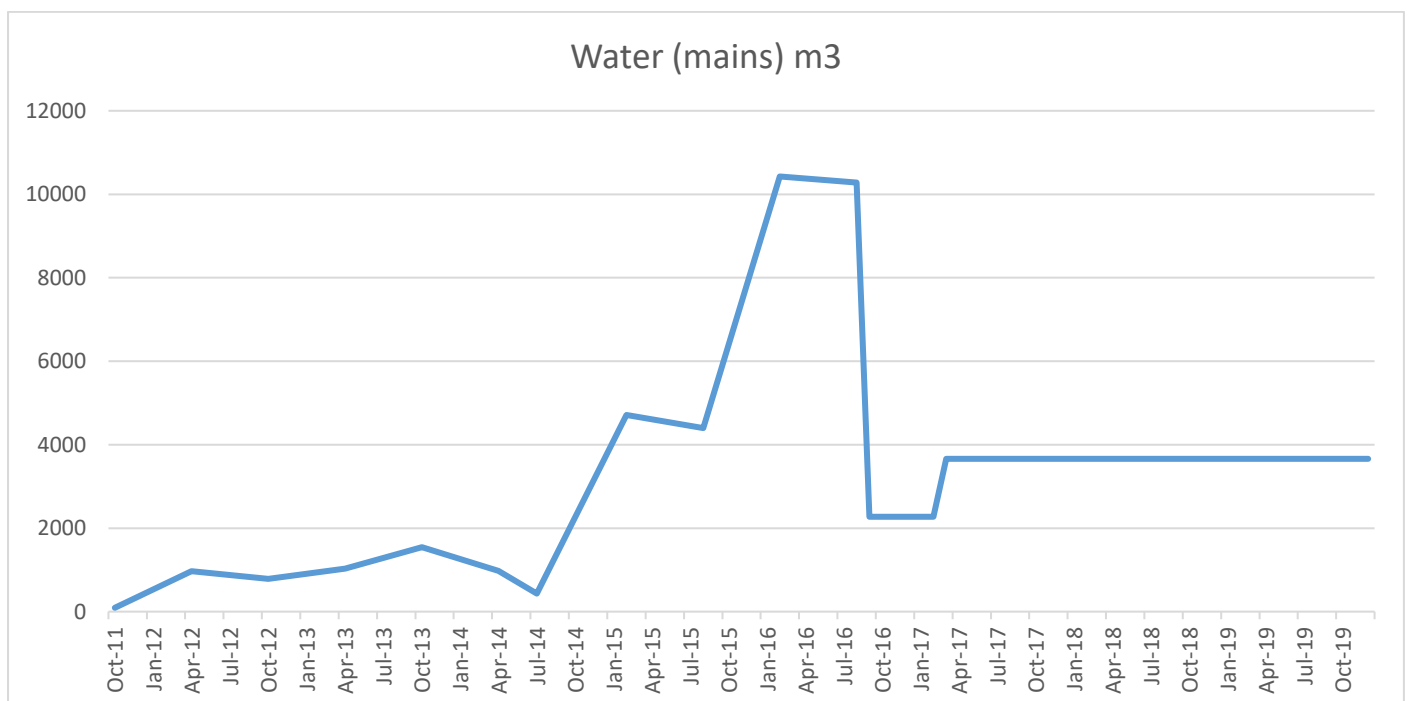
Recognising the impact water abstraction has on the environment, in 2011 we installed a combined attenuation and rainwater harvesting system to reduce the amount of water we need to abstract from mains supply. With an overall capacity in excess of 900,000 litres, the system collects rainwater from our roof and stores it ready for filtration and use.

Since 2011 we have been recycling and re-using the ionized water used in our powder coating lines' pre-treatment processes, reducing our demand on local water resources through mains water abstraction.

As part of our expansion programme, in 2014 we installed a state-of-the-art vertical powder coating line, which has a lower water consumption rate than our horizontal, line. Utilising best available technologies, we have significantly improved our water-use efficiency.

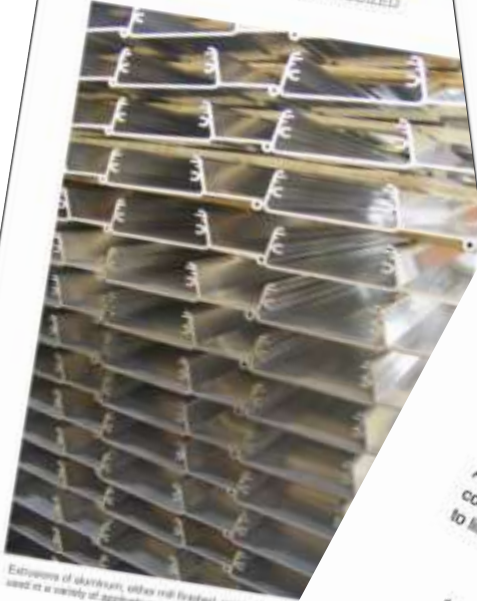
In early 2017, we commissioned an additional harvesting/attenuation system, with a capacity of 1,920,000 litres. This will substantially reduce both the overall water abstraction demand of the site, and the overall intensity for the factory in the future.

Note that the information reported below is a mixture of metered and estimated data, as supplied by the Utilities providers.



# ENVIRONMENTAL PRODUCT DECLARATION ALUMINUM EXTRUSION

MILL FINISHED, PAINTED, AND ANODIZED



Extrusions of aluminum, either mill finished, painted, or anodized, are used in a variety of applications and produced for a variety of markets.

# ENVIRONMENTAL PRODUCT DECLARATION THERMALLY IMPROVED ALUMINUM EXTRUSIONS

MILL FINISHED, PAINTED, AND ANODIZED



ALUMINUM  
EXTRUDERS  
COUNCIL

Aluminum extrusions offer engineers, architects and product designers a unique combination of attributes that can lead to outstanding product solutions. Strong, light weight, corrosion resistant, capable of complex shapes with tight tolerances and engineered performance... and infinitely recyclable, extrusions are ideally suited to today's world.

As the trade association for the North American aluminum extrusion industry, the Aluminum Extruders Council is committed to advancing extrusion technology, promoting the effective use of extrusions, and ensuring for trade.

In producing this first AEC industry EPD, the Council and its members demonstrate their commitment to sustainability and transparency. Visit [www.aec.org](http://www.aec.org) for more information.



Smart Systems Limited  
10000 10th Avenue, Suite 100  
Edmonton, Alberta T6A 1K1  
Canada  
Phone: (780) 443-1111  
Fax: (780) 443-1112  
www.smartaluminum.com

## Life Cycle Assessment

As part of our commitment to the protection of the environment and continual improvement in our environmental performance, with regard to life cycle assessment it is the policy of Smart Systems to:

1. Seek to continually improve the performance from upstream and downstream significant environmental aspects and impacts of the product.
2. Seek to continually increase the recyclability of the end of life of the product.
3. Seek to increase the recycled content of purchased constituent materials.
4. Set targets and objectives and monitor and review the performance against these objectives and targets.
5. Report these targets and objectives to the Company's stakeholders.
6. Comply with applicable legislation and other requirements relating to the Company's operations.
7. Ensure that all employees and contractors are familiar with related processes before carrying out any works.

Eddie Robinson - CEO

24x1-

## Action Plan

ENVIRONMENTAL  
EXTRU  
INDUSTRY IN  
MANUFACT



## The Environmental Footprint of Semi-Finished Aluminum Products in North America

A Life Cycle Assessment Report

The Aluminum Association  
December 2013



# Lifecycle Assessment

The lifecycle of aluminium, and aluminium profiles is widely known and understood. With aluminium products recycled worldwide, it is believed that 75% of aluminium produced in the 1880s is still in use today.

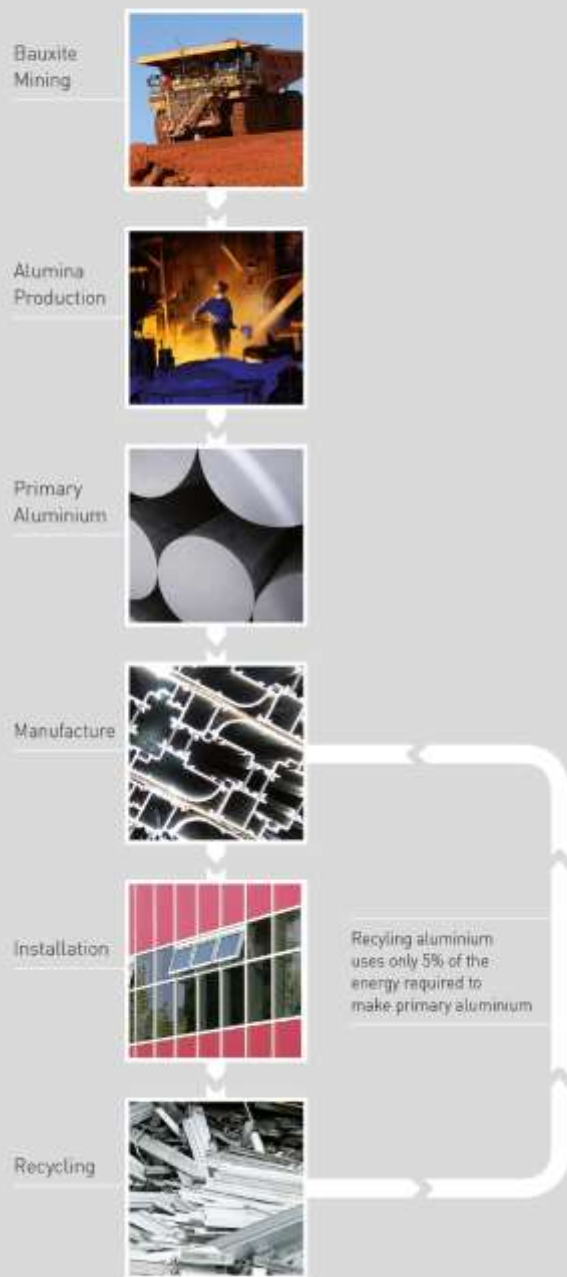
We consider the lifecycle of our products from the design room drawing board, through to production and beyond, identifying, for example, the risks that chromates hold in powder coating; the impact of energy demand in extrusion and the transportation of our products across the UK. Our objective is to improve the impact of our product across its lifecycle.

Detailed and thorough environmental product declarations, footprint calculations and lifecycle studies have been carried out by various aluminium sector trade bodies, action groups, and industry councils - as well as our own specific examples.

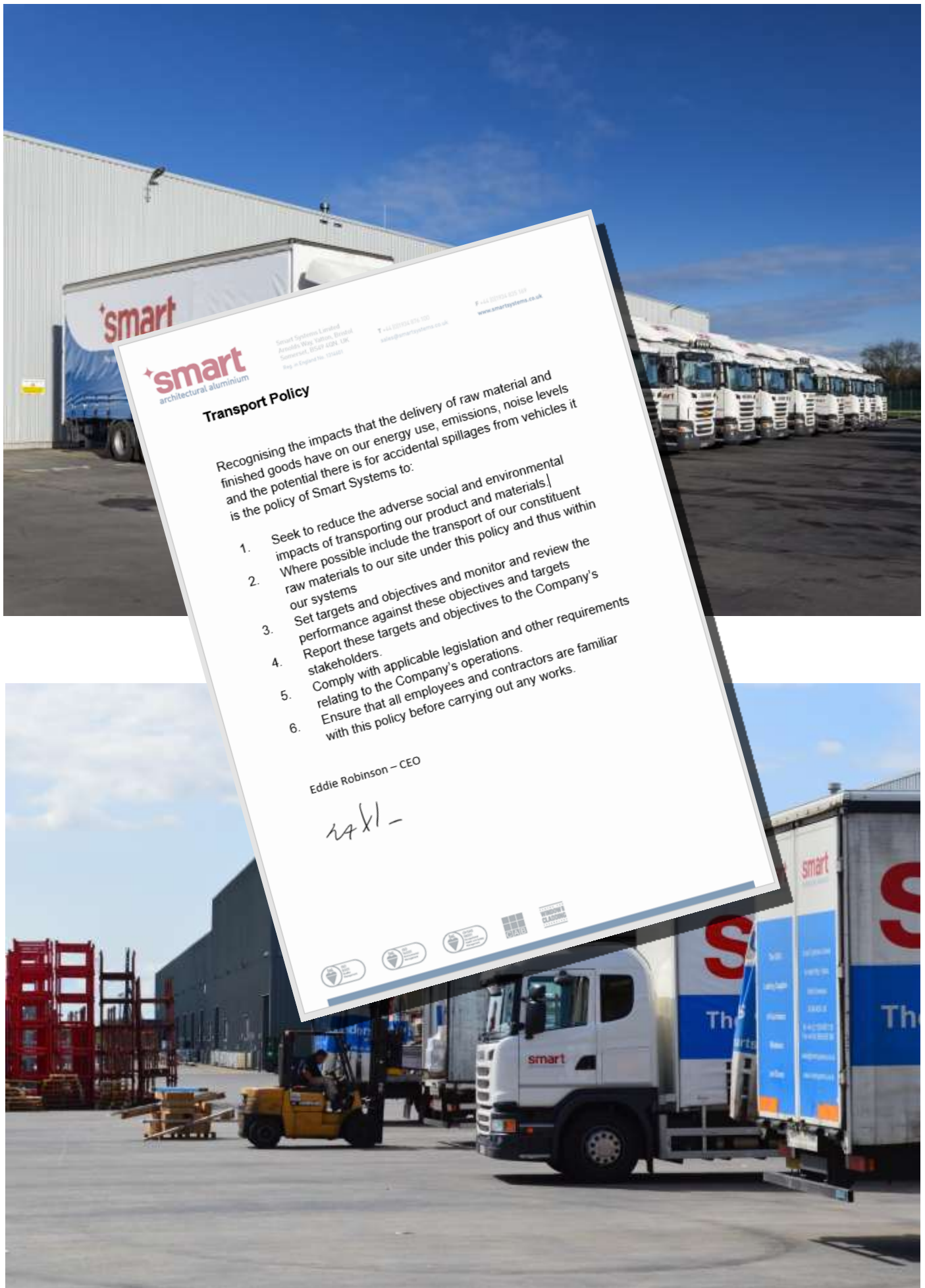
## Aluminium:

### The 'Cradle to Cradle' Lifecycle

Aluminium is commonly referred to as the ultimate building material. It is durable, light-weight, resistant to both corrosion and pollutants giving aluminium products a life cycle measured in decades rather than years. It is 100% recyclable, losing none of its material qualities in the recycling process. Large reserves of bauxite ore and the high quality of recycled aluminium offer a building material that is sustainable and effectively inexhaustible.







Smart Systems Limited  
Arncliffe Way, Sutton, Bristol  
Somerset, BS49 4DP, UK  
(Reg. in England No. 1234567)

T +44 (0)1274 876 100  
sales@smartsystems.co.uk

F +44 (0)1274 876 100  
www.smartsystems.co.uk

### Transport Policy

Recognising the impacts that the delivery of raw material and finished goods have on our energy use, emissions, noise levels and the potential there is for accidental spillages from vehicles it is the policy of Smart Systems to:

1. Seek to reduce the adverse social and environmental impacts of transporting our product and materials.
2. Where possible include the transport of our constituent raw materials to our site under this policy and thus within our systems
3. Set targets and objectives and monitor and review the performance against these objectives and targets
4. Report these targets and objectives to the Company's stakeholders.
5. Comply with applicable legislation and other requirements relating to the Company's operations.
6. Ensure that all employees and contractors are familiar with this policy before carrying out any works.

Eddie Robinson – CEO

*ER*



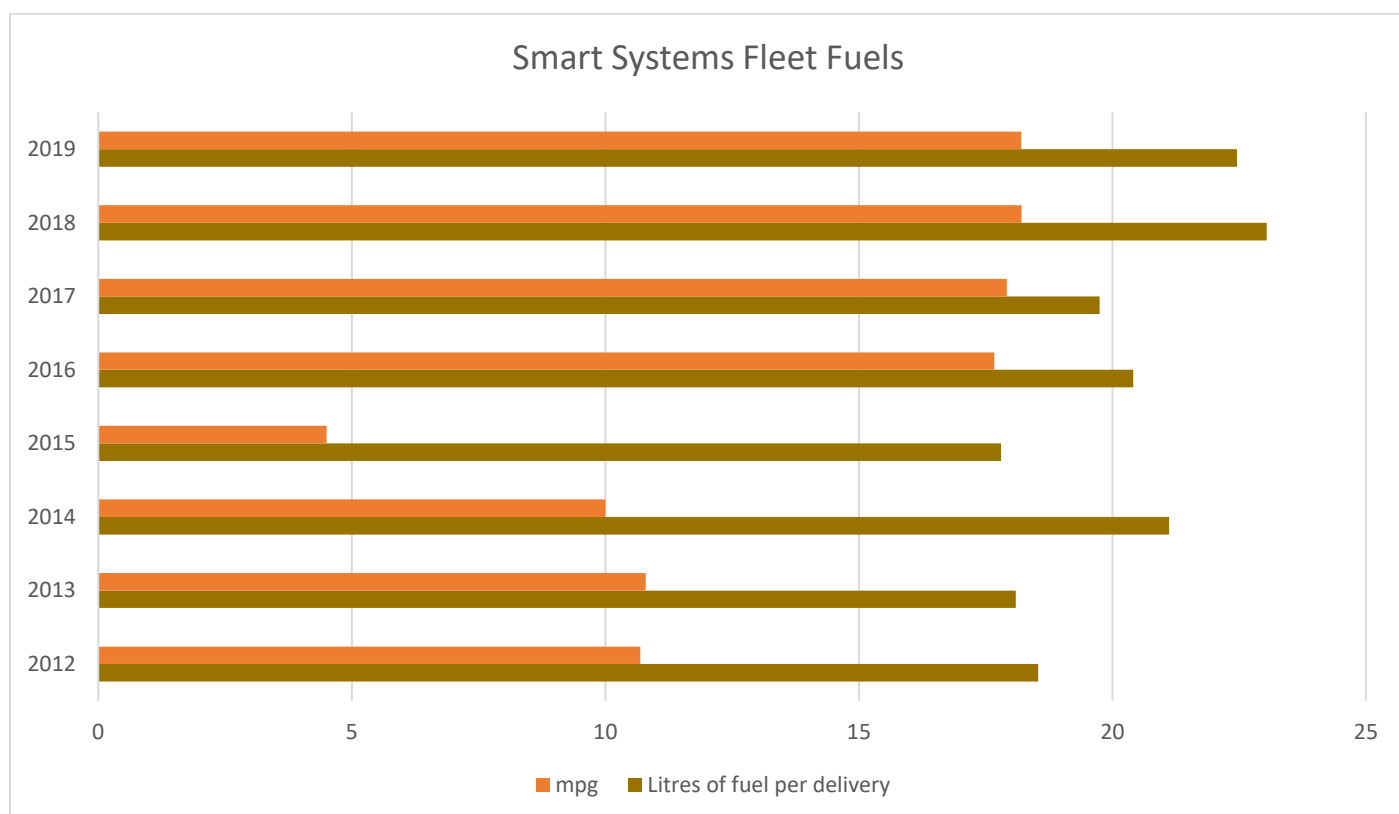
## Transport Impacts

We operate our own delivery fleet of rigid vehicles, with one wagon and drag, supplemented by efficient national haulage companies to reduce vehicle movements to and from our site.

In 2015, using expanded capacity provided by national haulers, we implemented a network of hubs around the UK, enabling our vehicles to pick up material without having to return to Yatton, reducing empty runs. Whilst this led to a lower overall MPG rate, as our drivers are doing more shorter, less efficient journeys, we have increased overall output by 20%, with only a 5% increase in fleet mileage.

In order to mitigate all the potential impacts of our transport activities (spillage and pollution, emissions, addition to congestion, noise etc.), we continue to invest in our fleet; by leasing and upgrading our vehicles regularly, we can meet current Euro V emission requirements. We also ensure each vehicle is maintained by the manufacturer in line with their recommendations, to reduce the risk of spills and leaks. Furthermore, we have installed 360 degree external camera systems on all our vehicles, giving drivers greater vision when operating in tight spaces, as well as the ability to assess their driving style.

From 2015, we set an annual target of a further 5% reduction in litres per delivery and by the end of the first half of 2016, we had already achieved a 3% reduction. With additional distribution hubs coming on line later in 2016, we are confident of achieving the full 5% reduction for the year.



## Employment and Skills

We employ around 400 people at our Yatton site. Whilst most of our employees live within a 15-mile radius, we have a diverse and inclusive workforce, with colleagues hailing from across the UK, Europe and beyond.

Where possible, we seek to develop and promote employees within the business, with advancements to supervisory and management roles, the development of technical skills and apprenticeships.

Our team leaders are responsible for identifying training needs and developing potential, enabling people to grow and develop organically without the pressure of 'management involvement'. When a training need is identified, if it is appropriate and practical, it is addressed by third party training, delivering certification for the trainee and aiding their continuing professional development.





## Ecotoxicity

Chemicals within the European Union must be classified under the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) legislation. REACH addresses the production and use of chemical substances, and their potential impacts on both human health and the environment. At the time of writing no products manufactured by Smart Systems Ltd are above the REACH threshold.

However, although a number of chemicals used within our processes utilise REACH registered substances, none are classified as Substances of Very High Concern (SVHC) under article 57 of the legislation.

Chemicals used regularly in our processes are Sodium Hydroxide: Registration Number 01-211945-7892, Powder Paints: No known SVHC or SVHC candidates, Hydrochloric Acid: 231-595-7, and Ferric Chloride: 231-729-4.



# Business Ethics

We operate in a business environment where the potential for business ethics to be violated or breached exists. Whilst we are able to operate with a large degree of freedom, we are bound not only by our own ethics, but also by those of our parent company, Corialis.

On completion of their induction, each employee signs a group-wide code of conduct, in which they are expected to follow the established Whistleblowing Policy, should the need arise.

The risk associated with bribery and corruption is assessed by the business regularly, to ensure legal and ethical compliance.



## Local Communities

As one of the largest local employers and the most active manufacturing facility in the area, we realise that our activities can have both positive and negative impacts on the local community. The nature of our operation makes it difficult for us to host groups of local stakeholders, however through meetings and consultations, we have involved the community at each stage of our site development.

We are proud to support local companies where possible and practical, including catering, consultancy, technical services, hotels and transport businesses.

As with any relationship, there are times when parties disagree, and we treat any community complaint with the same degree of seriousness and level of importance as we would if it were from a customer or regulator.







Photographic Credits to:

- EMAL Ltd
- DUBAL Ltd
- HYDRO Ltd
- Dudden Ltd
- World Aluminium
- Ensinger Ltd

Data within this report has been verified by Dudden Ltd

**Smart Aluminium Extrusions Ltd**

Arnolds Way | Yatton | Bristol | North Somerset | BS49 4QN | UK  
T +44 (0) 1934 875 309 | F +44 (0) 1934 875 327 | W [www.smartalu.co.uk](http://www.smartalu.co.uk)

Rooster Code: SME1055AE