**Tests**

**Browser:** Google Chrome (version: 113.0.5672.129)

**Buying Gas Tests (G)**

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| **G1 – Successfully buy Gas** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass | Minor defect raised. See DE01 in Defects folder. |
| Enter a positive integer of units for Gas which is less than the available units.  Click Buy. | Success message displayed with the correct units of Gas purchased and available remaining units. | Pass | Minor defect raised. See DE02 in Defects folder. |
| Click Buy more. | Buy Energy page displayed.  Available Gas amount is correct.  All other energy amounts are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See G1 in Test Evidence document. | |

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| **G2 – Attempt to buy a negative amount of Gas** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter a negative integer of units for Gas.  Click Buy. | Message displayed indicating an invalid number entered. | Fail | Major defect raised. See DE03 in Defects folder. |
| Navigate back to Buy Energy page. | Available units of Gas not updated.  All other energy amounts are unchanged. | Fail | See DE03 in Defects folder. |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** N/A | |

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| **G3 – Attempt to buy more Gas than is available** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter a positive integer of units for Gas that is greater than the available units.  Click Buy. | Message displayed indicating not enough Gas is available. | Fail | Major defect raised. See DE04 in Defects folder. |
| Navigate back to Buy Energy page. | Available units of Gas not updated.  All other energy amounts are unchanged. | Fail | See DE04 in Defects folder. |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** N/A | |

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| **G4 – Attempt to buy 0 units of Gas** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter 0 units for Gas.  Click Buy. | Message displayed indicating 0 units of Gas selected. | Fail | Minor defect raised. See DE05 in Defects folder. |
| Navigate back to Buy Energy page. | Available units of Gas not updated.  All other energy amounts are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** N/A | |

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| **G5 – Attempt to buy Gas using non-numeric value for amount** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter a non-numeric value for Gas.  Click Buy. | Message is displayed indicating the input is in an incorrect format. | Fail | Major defect raised. See DE06 in Defects folder. |
| Navigate back to Buy Energy page. | Available units of Gas not updated.  All other energy amounts are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** N/A | |

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| **G6 – Attempt to buy Gas using a decimal value for amount** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter a decimal number of units for Gas.  Click Buy. | Message is displayed indicating the input is in an incorrect format. | Fail | Major defect raised. See DE06 in Defects folder. |
| Navigate back to Buy Energy page. | Available units of Gas not updated.  All other energy amounts are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** N/A | |

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| **G7 – Attempt to buy Gas without entering a value for amount** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Clear the amount of Gas units.  Click Buy. | Message is displayed indicating an input amount is required. | Fail | Major defect raised. See DE06 in Defects folder. |
| Navigate back to Buy Energy page. | Available units of Gas not updated.  All other energy amounts are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** N/A | |

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| **G8 – Buy all available Gas units** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter an integer that equals the number of Gas units available.  Click Buy. | Success message displayed with the correct units of Gas purchased and 0 remaining units. | Pass | Minor defect raised. See DE02 in Defects folder. |
| Click Buy more. | Buy Energy page displayed.  Gas shows Not Available.  All other energy amounts are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See G8 in Test Evidence document. | |

**Buying Electricity Tests (E)**

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| **E1 – Successfully buy Electricity** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter a positive integer of units for Electricity which is less than the available units.  Click Buy. | Success message displayed with the correct units of Electricity purchased and available remaining units. | Pass | Minor defect raised. See DE02 in Defects folder. |
| Click Buy more. | Buy Energy page displayed.  Available Electricity amount is correct.  All other energy amounts are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See E1 in Test Evidence document. | |

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| **E2 – Buy all available Electricity units** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter an integer that equals the number of Electricity units available.  Click Buy. | Success message displayed with the correct units of Electricity purchased and 0 remaining units. | Pass | Minor defect raised. See DE02 in Defects folder. |
| Click Buy more. | Buy Energy page displayed.  Electricity shows Not Available.  All other energy amounts are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See E2 in Test Evidence document. | |

**Buying Oil Tests (O)**

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| **O1 – Successfully buy Oil** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter a positive integer of units for Oil which is less than the available units.  Click Buy. | Success message displayed with the correct units of Oil purchased and available remaining units. | Pass | Minor defect raised. See DE02 in Defects folder. |
| Click Buy more. | Buy Energy page displayed.  Available Oil amount is correct.  All other energy amounts are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See O1 in Test Evidence document. | |

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| **O2 – Buy all available Oil units** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter an integer that equals the number of Oil units available.  Click Buy. | Success message displayed with the correct units of Oil purchased and 0 remaining units. | Pass | Minor defect raised. See DE02 in Defects folder. |
| Click Buy More. | Buy Energy page displayed.  Oil shows Not Available.  All other energy amounts are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See O2 in Test Evidence document. | |

**Mixed Buying Tests (M)**

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| **M1 – Buy Gas with other energy amounts also entered** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Enter a positive integer of units for Gas, Electricity and Oil which are all less than the available units.  Click Buy for Gas. | Success message displayed with the correct units of Gas purchased and available remaining units. | Pass | Minor defect raised. See DE02 in Defects folder. |
| Click Buy more. | Buy Energy page displayed.  Available units of Gas amount are reduced by the amount purchased.  Available amounts of Electricity and Oil are unchanged. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See M1 in Test Evidence document. | |

**Browser:** Google Chrome (version: 114.0.5735.91)

**Navigation Tests (N)**

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| **N1 – Back to Homepage link** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Click ‘Back to Homepage’ link. | Home page displayed. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See N1 in Test Evidence document. | |

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| **N2 – Home in top menu bar** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to Buy Energy page. | Buy Energy page displayed. | Pass |  |
| Click Home in top menu bar. | Home page displayed. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See N2 in Test Evidence document. | |

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| **N3 – Find out more about us link** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Click About in top menu bar. | About ENSEK page displayed. | Pass |  |
| Click ‘Find out more about us’ link. | About Us page on main ENSEK website displayed. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See N3 in Test Evidence document. | |

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| **N4 – Contact in top menu bar** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Click Contact in top menu bar. | Contact page is displayed.  Contact information is available. | Fail | Major defect raised. See DE07 in Defects folder. |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** N/A | |

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| **N5 – Find out more button** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Ensure on Home page. | Home page is displayed. | Pass |  |
| Click ‘Find out more’ button. | Main ENSEK website home page is displayed. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See N5 in Test Evidence document. | |

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| **N6 – Find out more button** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Ensure on Home page. | Home page is displayed. | Pass |  |
| Click ‘Learn more’ button. | About ENSEK message displayed. | Pass |  |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** Screenshot taken. See N6 in Test Evidence document. | |

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| **N7 – ENSEK logo** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate away from the Home page. | Page navigated to is displayed. | Pass |  |
| Click the ENSEK logo. | Home page is displayed. | Fail | Minor defect raised. See DE08 in Defects folder. |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** N/A | |

**User Tests (U)**

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| **U1 – Register a new user account** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to the Register page. | Register page displayed. | Pass |  |
| Enter a new email address.  Enter a new password and password confirmation.  Click Register. | A message indicating a new user account has been created is displayed. | Fail | Major defect raised. See DE10 in Defects folder. |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** N/A | |

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| **U2 – Login as an existing user** | | | |
| **Steps** | **Expected Outcomes** | **Results** | **Comments** |
| Navigate to the Login page. | Login page displayed. | Pass |  |
| Enter the details for an existing user.  Click Login. | User is logged in. | Fail | Unable to register a new user (See DE10 in Defects folder), so unable to create an existing user to login with. |
| **TESTER:** Glynn Harrold | **DATE:** 03/06/2023 | **EVIDENCE:** N/A | |