

## Test Plan Execution

### Test Objective:

- Verify that users can purchase the required number of energy units.

### Test Approach:

- Manual Testing

### Feature: Buy Energy

#### Positive test Scenario: Successful Gas Purchase

##### Given

User is able to access the Home Page

##### And

User clicks on the "Buy energy" button

##### When

User enters **3000** as the number of units required for **Gas**

##### And

User clicks on the **Buy** button

##### Then

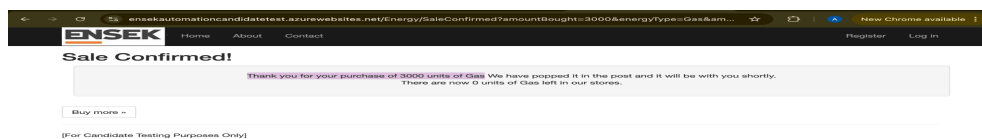
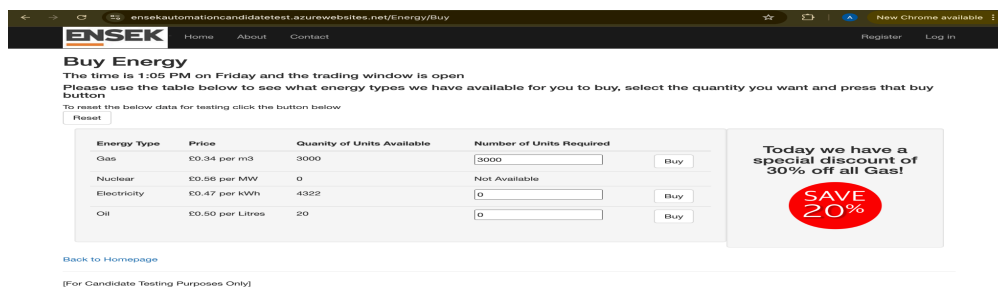
The **confirmation page** is displayed

##### And

A message is shown:

**"Thank you for your purchase of 3000 units of Gas"**

### Actual Result: **Pass**



## Negative test Scenario: Exceeding Maximum Gas Units

### Given

User is able to access the Home Page

### And

User clicks on the "Buy energy" button

### When

User enters **3001** as the number of units required for **Gas**

### And

User clicks on the **Buy** button

### Then

An **error message** is displayed

## Actual Result: **Fail**

**Buy Energy**

The time is 1:11 PM on Friday and the trading window is open

Please use the table below to see what energy types we have available for you to buy, select the quantity you want and press that buy button

To reset the below data for testing click the button below

[Reset](#)

Energy Type	Price	Quantity of Units Available	Number of Units Required	
Gas	£0.34 per m3	3000	<input type="text" value="3001"/>	<a href="#">Buy</a>
Nuclear	£0.56 per MW	0	Not Available	
Electricity	£0.47 per kWh	4322	<input type="text" value="0"/>	<a href="#">Buy</a>
Oil	£0.50 per Litres	20	<input type="text" value="0"/>	<a href="#">Buy</a>

Today we have a special discount of 30% off all Gas!

**SAVE 20%**

[Back to Homepage](#)

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**Sale Confirmed!**

Thank you for your purchase of 3001 units of Gas We have popped it in the post and it will be with you shortly.  
There are now -1 units of Gas left in our stores.

[Buy more >](#)

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## Defect Reported:

### Title:

No error message displayed when entering more than 3000 gas units (e.g., 3001) in Buy Energy flow

### Description:

When a user attempts to purchase more than 3000 units of Gas, the system should display an error message. However, no error is shown, and the process continues unexpectedly.

### Steps to Reproduce:

1. Navigate to the Home Page
2. Click on the "Buy energy" button
3. Select Gas as the energy type
4. Enter 3001 in the Number of Units Required field
5. Click the Buy button

### Expected Result:

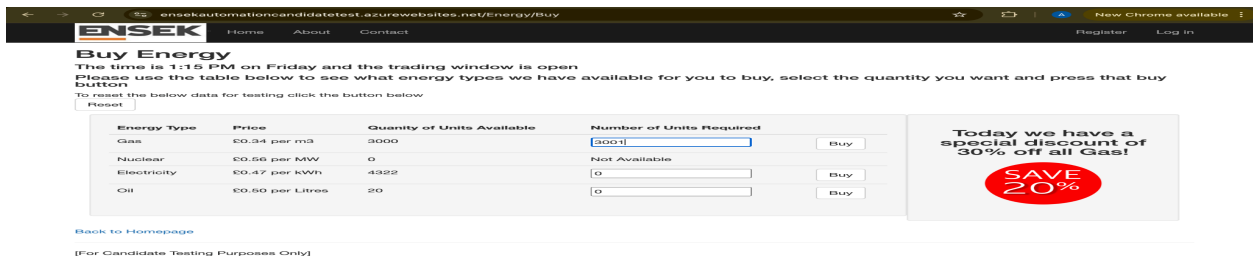
An appropriate error message should be displayed (e.g., "You cannot purchase more than 3000 units of Gas.")

**Actual Result:** No error message is shown and user is allowed to proceed.

**Severity:** Medium (depending on business rules, possibly High if this leads to incorrect transactions)

**Priority:** High (as it affects user experience and data validation)

### Screenshot:



The screenshot shows a web browser window with the URL `ensekautomationcandidatestest.azurewebsites.net/Energy/Buy`. The page title is "Buy Energy". Below the title, there is a message: "The time is 1:15 PM on Friday and the trading window is open. Please use the table below to see what energy types we have available for you to buy, select the quantity you want and press that buy button." Below this message, there is a "Reset" button. The main content is a table with the following data:

Energy Type	Price	Quantity of Units Available	Number of Units Required	
Gas	£0.34 per m3	3000	<input type="text" value="3001"/>	<input type="button" value="Buy"/>
Nuclear	£0.56 per MW	0	Not Available	
Electricity	£0.47 per kWh	4322	<input type="text" value="0"/>	<input type="button" value="Buy"/>
Oil	£0.60 per Litres	20	<input type="text" value="0"/>	<input type="button" value="Buy"/>

Below the table, there is a "Back to Homepage" link. At the bottom of the page, there is a note: "[For Candidate Testing Purposes Only]". On the right side of the page, there is a promotional banner that says: "Today we have a special discount of 30% off all Gas! SAVE 20%".

## Sale Confirmed!

Thank you for your purchase of 3001 units of Gas We have popped it in the post and it will be with you shortly.  
There are now -1 units of Gas left in our stores.

[Buy more »](#)

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