

# Power Supplier Recommender

## User Guide

## Introduction

Our Power Supplier Recommender system is a Web information system, which is targeted at all Singaporean considering to switch to a different power supplier. The website will ask a series of question, and generate the best 3 power supplier plans that fits the user requirements.

## Getting Started

### System Requirements

Power Supplier Recommender system supports the following Web Browsers:

- Internet Explorer 11
- Microsoft Edge 39 and above
- Firefox 53 and 52 ESR and above
- Google Chrome Version 59 and above
- Safari Version 10 and above

### Quick Start

In order to run the system, you will need to have a working Python installation with the necessary libraries installed:

- python-clips (install using apt-get)
- CLIPS
- Django

Please note that this application only works in Python 2.

To install the libraries above, key in the command “pip install <library’s name>”. To run our system, simply open a terminal, enter:

```
cd <path of the system>/psr  
python manage.py runserver
```

# Launching the Application

Open up your preferred browser and go to the URL “http://127.0.0.1:8000/” as shown below:

## Introduction

To find out more about how to choose the best pricing plans, click on “Show me”

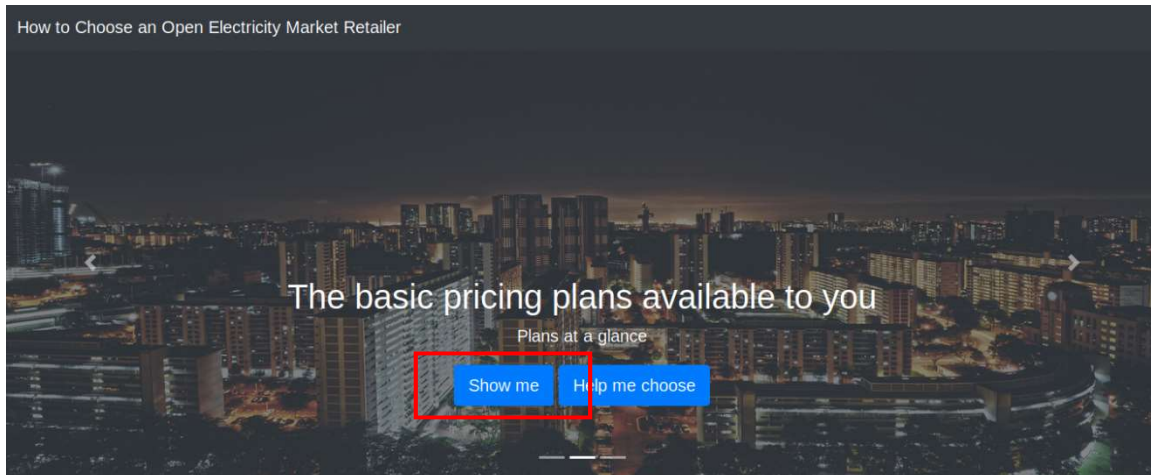


Figure 1: Power Supplier Recommender landing page

This will lead to an introduction page on choosing the best pricing plans.

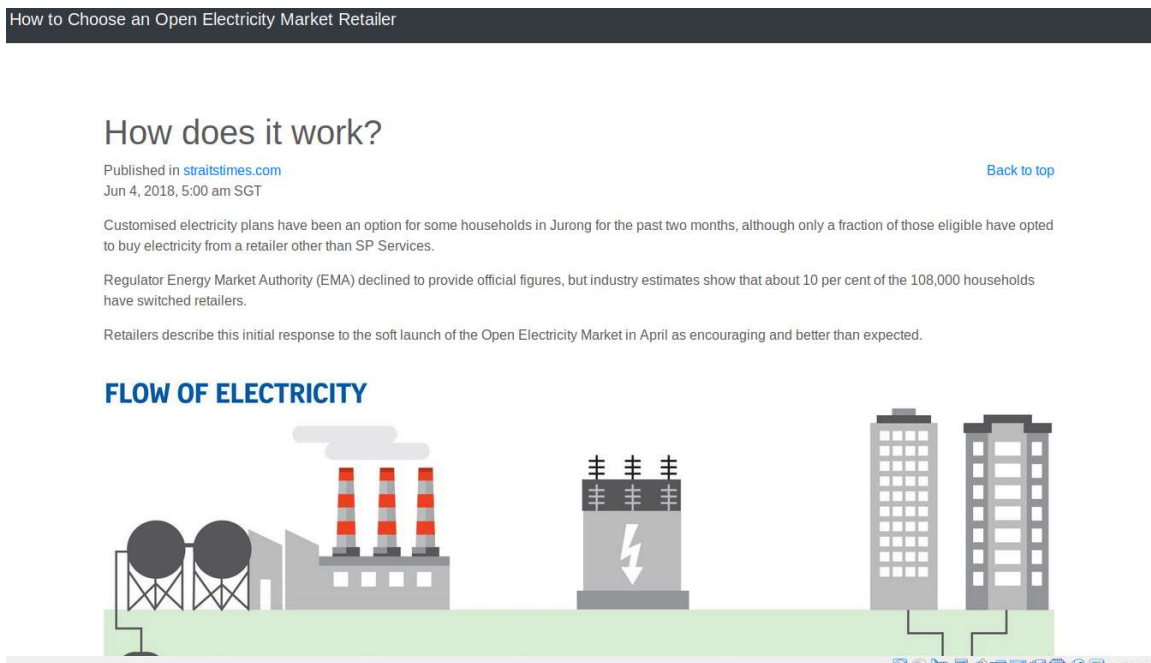


Figure 2: How does it work

Launching the recommender

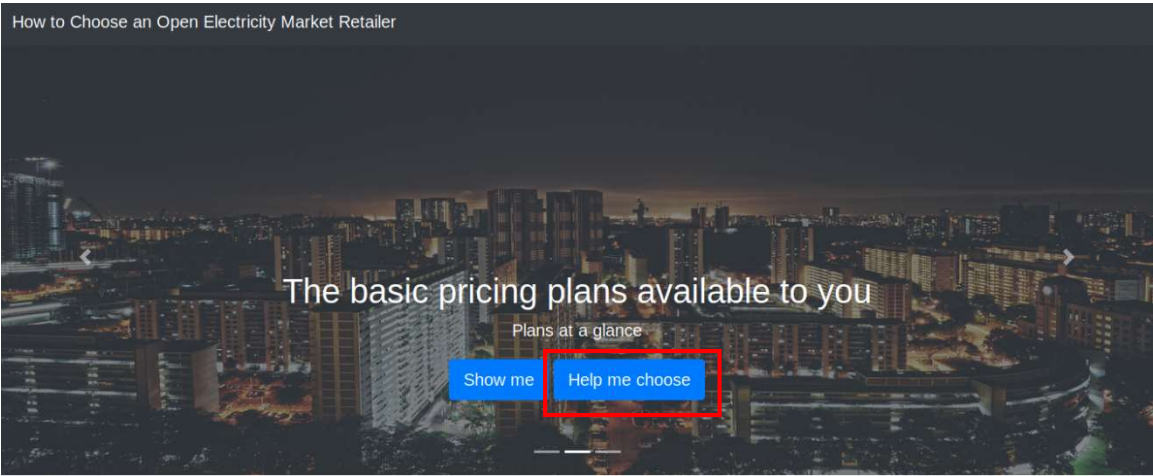


Figure 3: Launching the recommender


Then click “Help me choose”. This will lead to the questionnaire session where users would select their choices based on the questions asked. Below is an example:

The image displays a questionnaire interface titled 'Help me choose'. The header is dark grey with the text 'How to Choose an Open Electricity Market Retailer'. The main content area is white. At the top, the title 'Help me choose' is centered, followed by the text 'Based on your profile and preferences, we would recommend the top 3 options for you.'. Below this is a horizontal navigation bar with three tabs: 'YOUR PROFILE' (active, highlighted in blue), 'YOUR PREFERENCE', and 'OTHER CONSIDERATIONS'. The 'YOUR PROFILE' section contains four questions: 'I live in a (required)' with a dropdown menu, 'Monthly household income (required)' with a dropdown menu, 'My residence is' with two buttons 'OWNED' and 'RENTED', and 'Are you risk adverse or a risk taker?' with two buttons 'RISK ADVERSE' and 'RISK TAKER'. A green 'NEXT' button is located at the bottom right of the form.

Figure 4: Enter profile

The user will answer 9 questions. After all the questions have been asked, our system will gather all the facts. Using our inference engine, the system will then output the top 3 Power Supplier plans that best fit the user's description and requirement. Below shows one such example of the output:


How to Choose an Open Electricity Market Retailer



**SUNSEAP**

SUNSEAP-100 (100% Solar Energy) 24M


Price in cents/KwH or discount	23.01
Incentives	No
Contract (months)	24
Automatic Renewal	Renewed contract will remain as standard Fixed Price Plan with 24 months duration. Renewed electricity rate will be lower than prevailing regulated tariff at renewal. All other fees will be the same or better than existing rates
Smart Meter Required	No
Direct Billing	Yes
One-Time Registration	No
Fee	
Late Payment Charges	Sunseap reserves the right to charge you interest at 1.5% of the outstanding amount per month.



**Senoko**  
energy for life

LifePower24 (17.95)

Price in cents/KwH or discount	17.95
Incentives	Up to \$40 one-time bank rebate & up to 5% monthly rebates for UOB and OCBC cards. T&Cs apply, refer to <a href="http://www.senokoenergy.com">www.senokoenergy.com</a>
Contract (months)	24
Automatic Renewal	Renewed contract will remain as standard Fixed Price Plan with 24 months duration. Renewed electricity rate will be lower than prevailing regulated tariff at renewal. All other fees will be the same as existing rates.
Smart Meter Required	No
Direct Billing	Yes
One-Time Registration	No



**SUNSEAP**

SUNSEAP-50 (50% Solar Energy) 24M

Price in cents/KwH or discount	Discount-off the regulated tariff plan: 15.00 % discount
Incentives	No
Contract (months)	24
Automatic Renewal	Renewed contract will remain as standard Discount Off the Regulated Tariff Plan with 24 months duration. Renewed electricity rate will be lower than prevailing regulated tariff at renewal. All other fees will be the same or better than existing rates.
Smart Meter Required	No
Direct Billing	Yes
One-Time Registration	No
Fee	
Late Payment Charges	Sunseap reserves the right to charge you

Figure 5: Display results