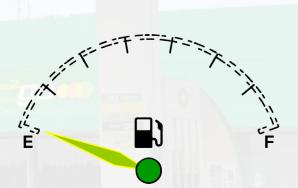
British Petroleum

Service Analysis & Visualization



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Service Summary

Who are the British Petroleum (BP)?

BP, or British Petroleum, is one of the world's largest companies in the oil and gas industry. It's based in London, UK. BP does everything related to oil and gas – finding it, making it, and selling products from it, like fuel. (BP, 2023)

BP's story goes back to the early 1900s when it started as the Anglo-Persian Oil Company in 1908. It's grown a lot and changed its name to British Petroleum in 1954. Right now, BP has around 18,700 gas stations all over the world. (BP, 2023)

BP in Australia

BP has been in Australia for a long time from 1919 until today. They started by building the first gas station in Fremantle. Until now, they already have more than 300 gas stations. (BP, 2023) BP has helped make Western Australia's energy landscape look the way it does.

BP has been really good at growing, coming up with new ideas, and making sure people are happy and safe. Just like how sponge absorbs water, BP keeps learning and using new methods to help with energy and technology in Australia.



BP Offline Service & Online Service (BPme)

Offline Service:

BP offers different types of fuel for cars, including diesel and unleaded petrol. They also have really good quality fuel. They also have a coffee service at their stores.

Online Service:

Users can use the BPme app to find all the BP gas stations near them on Google map. And if users need coffee, they can pre order it on phone, so it's ready when they arrive, and no need to wait.



18,000+

Gas Stations



BPme
4.7/5 from 42,396 ratings

BPme: Contactless Fuel Payment
Access BP Rewards & Pro-Order
Coment

Access BP Rewards & Pro-Order
Access BP Rewards &

There is another very convenient thing, users don't have to go into

the store to pay for their fuel. Instead, they can use the BPme app again to pay and get BP points for rewards, it's a good way to save







Service Problems

Unreasonable Commodity Price

Based on what people are saying online about BP gas stations, there seems to be a significant issue with higher prices for items in their stores. For example, a drink that costs \$3.95 on Amazon is being sold for \$19.95 at many BP gas station stores. This big difference in prices has made a lot of folks unhappy, and they feel that gas stations are making too much money from this. Some even compare gas stations to factories that make money, saying they're charging a lot without fairness.

Confusing Interaction Design

According to the ingenie article, most people recognize the green handle as the gasoline fuel pump and the black handle as the diesel fuel pump. (Ingenie, 2019) But, in the BP gas stations I looked into, there's an interesting twist: they've placed a green diesel logo right next to the black diesel fuel pump handle. This arrangement consistently confuses people about which fuel to choose. And this isn't just a one-time thing – the public found the same confusing setup in multiple BP gas stations.

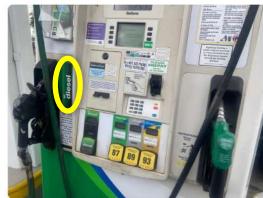








This BP station near my house has the gasoline pump in green and the diesel pump in black



Inconsistency between Online & Offline Services

Because BP does not have a strong brand appeal to most people, they don't really use BP's online service - BPme. Instead, they pick a gas station based on what's easy and the fuel price. This means that even though BPme is helpful for users, most customers at BP gas stations still go inside to pay for gas, not pay online. This causes some issues because some station workers don't know about online services. They might even be impolite to customers who already paid. This really hurts how people see the brand and how much they stick with it.

Incomplete Service & Gas Station Common Issue

Because of the COVID-19 pandemic, since 2020, almost all gas station bathrooms have been closed. This has made most drivers unhappy. At the same time, some drivers feel that gas stations should have safety checks to make long trips feel safer.

Also, gas stations often have a bad smell that bothers a lot of people. This makes most people want to leave the gas station quickly. This is a problem, especially since gas stations offer coffee service. The bad smell affects people's appetite and they don't feel like getting coffee anymore.

BP Gas Station Service Flow





Mutiple Possbilities of choosing gas station service

Need to be ready on different situations

- "I refuel when the alarm remind me to do it."
- "Normally, I realize I need to refuel when I was driving"
- "Because of work, I normally refuel my car when the tank show 1/2."
- "I have needed to pick up my kid every day, ..., I have to refuel once a week."
- ... (From Interview Transcript)

BP is not the first choice to customers

Need better service and brand appeal

The **Online Ethnography** shows that most people don't feel very loyal to BP as a brand. Instead, they tend to pick a gas station that's either the most convenient or the cheapest for them. To change this, BP needs to make its brand more attractive by offering more services or by improving the services it already provides.

In the flowchart, we're assuming that the BP gas station turns out to be the best choice among all the available options.

Also, drivers have different ways on using gas station services based on how they drive, using online service or not, and where they are. So, we've picked out two common situations that most people might experience to show how things usually happen.

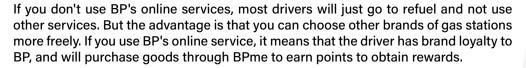
- (a) Without BP Online Service
- (b) Offline Service & Online Service
- Pain Point because of service design

Common Situation 1:

While driving, drivers realize they need to refuel when they hear the alarm from their vehicle's fuel tank.

Common Situation 2:

When drivers stop at a place, like their garages, they realize that their vehicles need more fuel. Drivers can utilize Map app to locate the nearest BP gas station.



Pressure to maintain loyalty and low rewards: If people use BP's online stuff, they might feel like they have to really like BP all the time so they can get all the good stuff like rewards and benefits. But the reward and benefit self is not very attractive to customers.

Drivers can utilize BPme to locate the nearest BP gas station and place a coffee order in advance.







The offline service is not good in most gas stations

Need better employee training & design

- "...the smell of gas station is too strong, it makes me feel uncomfortable."
- "Toilet. The only part I dislike is the closing toilet. When the covid comes out, they close the toilet until now."
- "...I unlock my pump on the app, fill up, get back in the car and wait for confirmation on the app..., the guy inside is staring at me and over the PA in front of a quite busy servo he goes "stop. You need to pay for your fuel." ..."

 The colours of the diesel pump and gasoline pump aren't consistent with the labels. This situation has already led to bad consequences.
- ... (From Interview Transcript & Online Ethnography)

Key Insights

BP gas station service has a low level offline service

For BP gas station services, **many of the issues are not pain points but rather services that don't quite fit or make sense.** For example, having coffee in a place that smells bad does not match up well.

Customers are looking for services that make more sense. This includes making rewards better through the BPme app, ensuring that the connection between in-person and online services is smooth so staff don't mistakenly bother customers who already paid, and changing the color of the fuel nozzles to match what people expect.



Appendix 1

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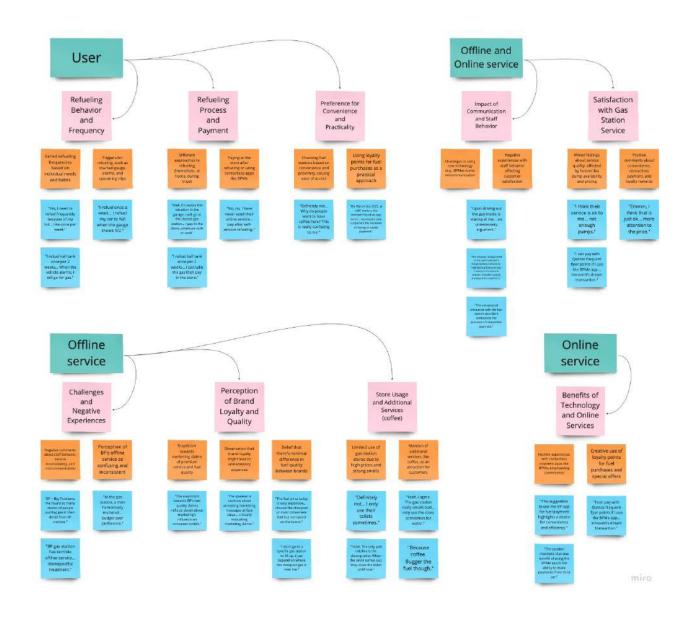
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Appendix 2

Affinity Diagram



Appendix 3.1

Interview Transcipts

DESN3002 A1: Interview Transcripts

All participants have **more than 3 years driving experience** and **used British Petroleum gas service**. The purpose of the interview is to understand their whole processes on adding gas and attitude to gas station service.

Question 1: Do you refuel frequently?

Question 2: When do you realize you need to refuel? (depends on response of Q1)

Question 3: Is there a series of steps for you to get you gas?

Question 4: Will you use the store in the gas station? Question 5: Are you satisfied with gas station service?

Question 6: Are there any stages you like or you think should be improved?

Question 7: How will you improve it? (optional)

Interview 1

Participant 1: Housewife, main driving reason is picking up kids to and from school.

Interviewer: Hello! Thank you for participating in my interview! Now let's begin. First question, do you refuel frequently?

Participant 1: Yes, I need to refuel frequently because of my kid. In the past 10 years, I have needed to pick up my kid every day, and I have needed to go to the shopping mall and my parents' place. I think I refuel so many times, like once per week.

Interviewer: Got it. So when do you realize you need to refuel? Like after picking up your kid or just before leaving your place?

Participant 1: Normally I realize this situation in the garage or on the road. And I only refuel when I find out the tank is empty or I have a long journey.

Interviewer: So, how do you solve this situation? Is there a series of steps for you to get you gas?

Participant 1: Well, if I realize this situation in the garage, I will go to the closest gas station to my home; if I realize on the road, I will still go home today then refuel it in the same gas station tomorrow when I drive out. I just drive into the gas station and refuel my car. After refueling, I pay in the store, whatever cash or card, then leave the station as soon as possible, because the smell is too strong, it makes me feel uncomfortable.

Interviewer: Cool. Sounds like you won't use the store in the gas station right? Won't you enjoy coffee here?

Participant 1: Definitely not. Why do people want to have coffee here? This is really confusing to me. And their commodities are more expensive than a normal store's, I don't want to pay more. I only use their toilets sometimes.

Appendix 3.2

Interview Transcipts

Interviewer: Yeah, I agree. The gas station really smells bad, and gives me a headache. Are you satisfied with their service?

Participant 1: I think their service is ok to me. Just sometimes I have to wait for a long time because there are not enough pumps.

Interviewer: Got it. That's all I wanna ask. Thank you so much!

Interview 2

Participant 2: Middle-aged male, main driving reason is picking up kids to and from school, working, shopping and dating.

Interviewer: Hello! Thank you for participating in my interview! Now let's begin. First question, do you refuel frequently?

Participant 2: I refuel once a week. It is actually because of my diving habit, I refuel my car to full when the gauge shows ½, because I don't know how far I will drive next time for work.

Interviewer: I see. So is there any specific step for you to get the fuel, like using an online service or something else?

Participant 2: No, no, I have never used their online service. I don't go to a specific gas station to fill up, I just depend on where the cheapest gas is near me. Then, I will go to the store to pay after self-service refueling.

Interviewer: So do you buy some other things like water in the store when you pay for the fuel fee?

Participant 2: Sometimes, just for need.

Interviewer: Okay, next question: are you satisfied with the gas station service?

Participant 2: Emmm, I think that is just ok. Not too good, not too bad. Actually, I pay more attention to the price, you know? I will be satisfied when the price is low, hahaha. Because all gas stations are similar, I don't know if this is the government's request or not, they have garbage bins, tools to clean windows and tire inflation. I think it is ok.

Interviewer: Are there any of your favorite parts or dislikes?

Participant 2: Toilet. The only part I dislike is the closing toilet. When the covid comes out, they close the toilet until now. I think they are just lazy, this is very terrible to me.

Interviewer: Yeah, I agree with that. So do you have any suggestions for them to improve? Like opening the toilet?

Appendix 3.3

Interview Transcipts

Participant 2: Yeah, definitely. I think opening the toilet is the most important thing. And I think the gas station can set a safety check to check the car and driver, to make sure the vehicles are ok to keep driving and drivers are not too tired. And they can set up a small repair shop in the station.

Interviewer: Thank you so much. This is a very valuable idea. And that's the whole interview. Thanks for joining.

Interview 3

Participant 3: Youth worker, main driving reason is working and dating.

Interviewer: Hello! Thank you for participating in my interview! Now let's begin. First question, do you refuel frequently?

Participant 3: I refuel half tank once per 2 weeks. I think it is not a very high frequency.

Interviewer: So when do you realize you need to refuel?

Participant 3: When the vehicle alarms, I will go for gas.

Interviewer: Are there any other steps for refueling, like using the online service.

Participant 3: Nope. No other steps. I just take the gas then pay in the store.

Interviewer: Do you buy other things in the store?

Participant 3: Sometimes for water.

Interviewer: Cool. Are you satisfied with the gas station service?

Participant 3: Yes. I think they do a great job.

Interviewer: Are there any stages you like or you think should be improved?

Participant 3: Some stations have an unreasonable layout to place the machines, which may waste my time. For the station, it reduces the utilization of machines and customers are waiting due to the unreasonable layout of the limited space of the station.

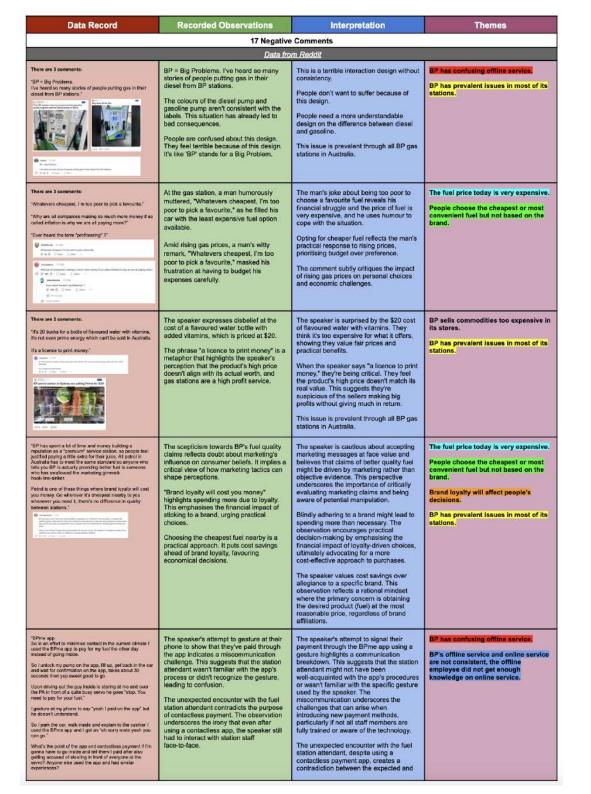
Interviewer: So how will you improve this phenomenon?

Participant 3: I cannot stand for all customers, I think they should improve the layout from the customer's perspective as much as possible.

Interviewer: Thank you so much! That's the whole interview.

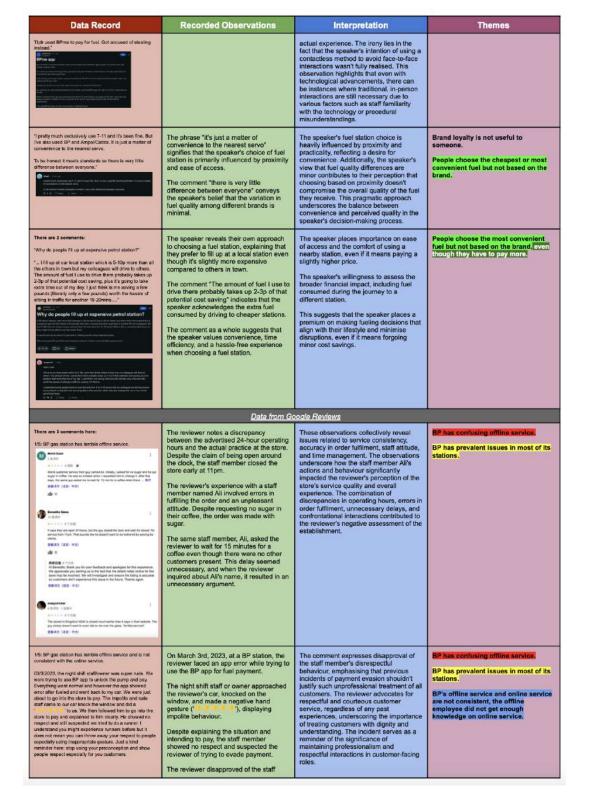
Appendix 4.1

Online Ethnography



Appendix 4.2

Online Ethnography



Appendix 4.3

Online Ethnography

