

Typhoon Soudelor Disaster Recovery Research Portfolio

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Abstract

Ruthless Typhoon Soudelor is a nightmare of entire people in Saipan. Typhoon Soudelor hit Saipan harder than any storm in decades of years ago. Typhoon Soudelor invaded Saipan late Sunday night and early Monday, flooding the island's power plant, ripping off roofs of homes and toppling power poles. The storm battered the island with wind speeds between 100 mph and 120 mph when it hit Sunday night, according to the National Weather Service. Damages caused by typhoon Soudelor are extensive, island wide. Nearly 800 power poles and 600 transformers were damaged. All 14,622 electric customers on Saipan were without grid power. . The essay's topic proposed will be on the topic of electricity and water recovery.

Introduction

Life with power outage is already difficult to live, and the cut off of water make it more difficult. The entire population of Saipan has been affected due to typhoon. Regardless of the normal people that suffered due to power and water outage. Think about the people that really need water and electricity like pregnant person, senior citizens, young kids, and hospital patients. Business was forced to close down due to power outage. People are suffering due to slow recovery process. [Steve Limtiaco (Sept 11, 2015) "Most on Saipan still lack power"]

Student researcher chooses to writing about this topic because the entire population affected due to power outage and water outage. Everyone suffered in a different level of pain. Everyone have a miserable story. I should express the feeling of everyone about the outages of power and water. Why were decision make about the primary recovery.

Data for Disaster Recovery after Typhoon Soudelor research project was collected in several ways, surveys, online articles, and interviews. The research's topic proposed will be mainly focused on the topic of electricity and water recovery. The outage of electricity and water are most effecting Saipan, the whole population. Student researcher chooses to writing about this topic because the entire population affected due to power outage and water outage. After reading the research report, people will know why they have no water and power for month or more.

An unexpected information was collected while I was on duty at work at Marianas Security. At Nov 05, 2015, a male named Joegi called. Said that he just wanted to talk to someone because it is too hot, he is unable to sleep. He explained his pitiful situation. He is sleeping with sweat every day, mosquito everywhere biting him. He complained that all mosquito coils was sold out. His have been using his shirt for several continuous days, because there was no laundry shop opened due to no power. The way he said was very pitiful and depressed.

Literature Review

Throughout the literature, some articles answered some of researcher's questions. Why did disaster recovery took so long? Damages caused by typhoon Soudelor are extensive, island wide. Saipan has too little existing supplies in island for disaster recovery, disaster recovery can't be done until supplies arrive. Saipan not only lack of resources, but also lack of human power

Damages caused by typhoon Soudelor are extensive, island wide. "I haven't seen a storm like this in 20 years," Gregorio Kilili Camcacho Sablan said. The typhoon was more stronger than what it was expected. "But the typhoon was significantly more powerful and devastated the island, toppling homes and snapping wooden electricity poles," said Glen Hunter.

Articles stated, damages caused by typhoon Soudelor are extensive, island wide. Saipan has too little existing supplies in island for disaster recovery, disaster recovery can't be done until supplies arrive. "Unfortunately, the resources we have are hardly enough to get things up." said Gregorio Kilili Camcacho Sablan. According to acting CUC executive director John Riegel "The poles were supposed to arrive the previous Saturday, Aug. 15. But port closure due to Typhoon Goni and harsh weather conditions that resulted in 15-foot swells pushed back their arrival."

Saipan not only lack of resources, but also lack of human power. It is reasonable that the power of nature is irresistible. But why Saipan will be short of human power when the government can simply employ foreigner workers. Researcher got the information from his work, Marianas Security Corp., that people from Guam, the electricians, are fighting to come in Saipan to work, because they're getting pay at a wage of 30 dollars per hour for disaster recovery. According to Guam Business Magazine, "Guam Power Authority sent over two dozen of skilled personnel from GPA to Saipan." The article stated over two dozens, but the tenant sheet of Chalan Kanoa Beach Hotel shows just three dozen of GPA staffs. Why don't Saipan government employ more workers since everyone are getting pay by hourly wages.

Research Questions

Primary Research Question

How did the cut off of power and water after Typhoon Soudelor effect the Saipan society?

Secondary Research Question

Why did disaster recovery took so long?

What places received primary electricity and water? Why?

What were the dates of action of recovery?

When will Saipan island fully recover?

Job distribution among CUC (Commonwealth Utilities Corporation) and GPA(Guam Power Authority)

What was Saipan CUC doing before and after GPA arrive to Saipan from Guam

How fast was the recovery process after typhoon?

Methodology

Data for Disaster Recovery after Typhoon Soudelor research project was collected in several ways, surveys, online articles, and interviews. Some data were collected unexpectedly. Student researcher created a pilot survey for the purpose of testing quality of the survey on SurveyMonkey.com. Pilot survey was created in SurveyMonkey.com with limited access account which allows users to create survey with maximum of 10 questions. But student

researcher was able to fit all questions by several questions in one unit. Pilot survey was uploaded to Google Docs created by Dr. Kimberly for peers review from Nov 02, 2015 to Nov 29, 2015. Participants for peer review were Dr. Kimberly and students enrolled in her class. Nine members have responded to the pilot survey, pointed out some grammar issues. (See Appendix F) Feedbacks also stated that they like the way the survey is, with multiple choices. (See Appendix F) The pilot survey was developing every time when a new feedback is given by peers. The final survey was distributed to students enrolled in Dr. Kimberly's courses, and random people. (See Appendix A)

Student researcher was informed from work that GPA (Guam Power Authority) is staying at Chalan Kanoa Beach Hotel. Student researcher intent to interview with several questions (See Appendix B) on Sunday Nov ,2015, before they leave. The reason of interviewing GPA staffs is because they are the experts in the field of electricity, and GPA staffs knows every single detail because they take part with the disaster recovery. Unfortunately, the interview was rejected by GPA staffs because of some questions are too direct to confidential information, and GPA staffs were having a sweet BBQ lunch next to the swimming pool at that time. The only answer GPA staffs told me is, "we're not sure when will Saipan fully recover."

Student researcher also asked his co-workers from Marianas Security Corp. several survey questions because co-workers were convenience. (See Appendix C) The main research data comes from online articles and newspaper articles published by Saipan Tribute and Marianas

Variety. Search engine used is Google.com with keywords, Soudelor, recovery, Saipan August 2, etc. (See Reference List)

Findings & Analysis

Researched Articles Online

Data that was collected consisted of many online articles researched throughout the course semester. Damages caused by typhoon Soudelor are extensive, island wide. While I was on my way to work at the first day after the typhoon on Monday, Aug 03, all power poles were knocked down by the fierce winds. According to Dino W. Buchanan “After the storm, the CUC said all 14,622 electric customers on Saipan were without grid power and later visual inspections confirmed nearly 800 power poles and 600 transformers were damaged.” (2015). Many residents’ home were destroyed by the typhoon, hundreds of Saipan residents are in shelter, power and water are out. Residents have since been relying on generators provided by the United States Federal Emergency Management Agency.

Saipan has too little existing supplies in island for disaster recovery, disaster recovery can’t be done until supplies arrive. "Unfortunately, the resources we have are hardly enough to get things up." said Gregorio Kilili Camcacho Sablan. Saipan has to receive help from U.S the mainland and other neighbor island such as Guam. According to Jennifer S. Kellerher (2015), “Ten generators were being shipped from Guam to power water pumps in Saipan.” GPA (Guam Power Authority) from Guam also provided electrical poles for Saipan. Saipan not only lack of resources, but also lack of human power. Saipan CUC (*Commonwealth Utilities Corporation*) received helps from Guam Power Authority. Over two dozen skilled

personal from Guam, and both are working together to install new electrical poles. Although both teams are working together, the process was still slow.

According to Steve Limtiaco, “Power restoration efforts in Saipan are ongoing, but some residents, especially those who don’t live near primary power lines, could be without electricity until at least the end of October, according to the latest update from the Commonwealth Utilities Corporation. Due to the long period of power and water outage, people are suffering big time. All respondent from Saipan say that they suffered at least one month of power outage, according to survey of Christopher Wu (2015). Respondent also claimed that the recovery process was extremely slow. On Sep 11, 2015, it is on estimated that power has been restored to only 35 percent of the grid. Ivan Blanco, says the power outage is expected to last another 1 to 2 months, but for now, the island will continue to rely on generators.

Survey

Student researcher created a pilot survey for the purpose of testing quality of the survey on SurveyMonkey.com. Pilot survey was uploaded to GoogleDocs created by Dr. Kimberly for peers review from Nov 02, 2015 to Nov 29, 2015. Participants for peer review were Dr. Kimberly and students enrolled in her class. The final survey was distributed to students enrolled in Dr. Kimberly’s courses, and random people. Total of 12 anonymous respondents answered the survey in several different dates. (See Appendix D) According to the final survey (See Appendix A) created by researcher, 10 out of 12 respondents complained that they have no power for at least one month. Three out of eight complained the water outage

was more than 1 month, two of the three stated almost two months and two months of water outage. (See Appendix E)

Interview on Co-workers

Student researcher interviewed his co-workers. The typhoon have strong impact on their daily life. Anthony Mangahis Jr., the technician of Marianas Security Corp., complained that he can't sleep well every night because there was no power. Several reason cause him unable to sleep, the generator sound, and the hotness. Anthony has to watch the Boss's generator every night to keep it running, need to add fuel once it is low to keep generator running because there was no power from CUC.

Hari B. Bhujel, the supervisor of Marianas Security Corp., Hari's case is the worst. Hari have a family of three children, one boy and two girls, and Hari's wife. He's kids complains about the hotness every night, the kids even cried because the structure of their house's ventilation is not very well. Plus the heat that was kept in the house in the afternoon because Hari's house does not have a heat insulating layer. Hari's temporary solution for the hotness was to use car batteries.

Unexpected Information

An unexpected information was collected while I was on duty at work at Marianas Security. At Nov 05, 2015, a male named Joegi called. Said that he just wanted to talk to someone because it is too hot, he is unable to sleep. He explained his pitiful situation. He is sleeping with sweat every day, mosquito everywhere biting him. He complained that all

mosquito coils was sold out. His have been using his shirt for several continuous days, because there was no laundry shop opened due to no power. The way he said was very pitiful and depressed.

Discussion

Life with power outage is already difficult to live, and the cut off of water make it more difficult. The entire population of Saipan has been affected due to typhoon. Regardless of the normal people that suffered due to power and water outage. Think about the people that really need water and electricity like pregnant person, senior citizens, young kids, and hospital patients. Business was forced to close down due to power outage. The entire populations on Saipan are affected due to power outage and water outage. Everyone suffered in a different level of pain. People are suffering due to slow recovery process. The causes of slow disaster recovery are simply because of damages are wide, too little supplies, too little workers.

An unexpected information was collected while I was on duty at work at Marianas Security. At Nov 05, 2015, a male named Joegi called. Said that he just wanted to talk to someone because it is too hot, he is unable to sleep. He explained his pitiful situation. He is sleeping with sweat every day, mosquito everywhere biting him. He complained that all mosquito coils was sold out. His have been using his shirt for several continuous days, because there was no laundry shop opened due to no power. The way he said was very pitiful and depressed.

Conclusion

Ruthless Typhoon Soudelor is a nightmare of entire people in Saipan. Typhoon Soudelor hit Saipan harder than any storm in decades of years ago. The entire populations of Saipan are affected due to power outage and water outage. Majority suffered for more than one month of power outage. Everyone suffered in a different level of pain. Everyone have a miserable story. Respondent from researcher's final survey claimed that the recovery process was extremely slow. (See Appendix E) The causes of slow disaster recovery are simply because of damages are wide, too little supplies, too little workers.

References

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Appendices

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Appendix A

Final Survey on SurveyMonkey.com

Power and Water Recovery after Typhoon

1. Who was most affected from Typhoon Soudelor

- Young kids (below age of 10)
- Students
- Proprietor of business
- Senior citizens (Attention: metabolism gets slower while getting older)
- Patients
- Pregnant person

Why?

2. How fast was the electricity recovery process after typhoon?

- Extremely slow...OMG I am suffering so much!
- Slower than expected
- Fair
- Faster than expected
- Speed of light

How long did you experience power outage?

3. How fast was the water recovery process after typhoon?

- Extremely slow...OMG I am suffering so much!
- Slower than expected
- Fair
- Faster than expected
- Speed of light

How long did you experience power outage?

TYPHOON SOUDELOR DISASTER RECOVERY RESEARCH PORTFOLIO

*** 4. What places received primary electricity and water? Why?**

5. When will Saipan fully recover? (Electricity and Water)

- The first week of November
- Middle of November
- End of November
- Someday of December

**6. When was the date of action of recovery? (When did you see people working on recovery)
How many days after typhoon or the exact date.**

7. How did you feel or think, when you heard about rumors about the time length of disaster recovery?

- No worry at all (I have confidence of our government)
- I am prepared to suffer
- I know recover will take long. Should I go offisland or move out from current home?
- OMG...how long will it take to recover?

8. Job distribution among CUC (Commonwealth Utilities Corporation) and GPA (Guam Power Authority)

- CUC doing most of the recovery work
- GPA doing most of the recovery work
- Other (please specify)

9. Your temporarily solution for power outage after typhoon

- Sleep in car
- Generator
- Invertor
- Feel the nature (Suffer!)
- Off island
- Live somewhere else that provide generator
- Other (please specify)

10. Other

A little experience after typhoon that you wanted to share?

First time experienced a disaster?

Crime rate after typhoon. Low/High...if yes, are people taking advantage of disaster?

Age

Gender

Done

Powered by



See how easy it is to [create a survey](#).

Appendix B

Questions for Guam Power Authority workers

- Why did recovery took so long when we're in such an advanced technology era?
- What places received primary electricity and water? Why?
- What was the date of action of recovery?
- When will Saipan island fully recover?
- Allocate among CUC and GPA?
 - What was Saipan CUC doing before and after GPA arrive?
- Crime after power outage
- How was the recovery process after typhoon

Appendix C

Summary of Co-workers Interview

Hari B. Bhujel

- Supervisor of Marianas Security
- Have to wake up 08:00 a.m. every morning to attend work from Monday to Friday
- Hotness of the house
 - No Power
 - No water, at least able to shower to reduce the hotness if water is available.
 - Ventilation of house is bad
 - House have no heat insulating layer
- Kids complained and cried because of hotness
- Used car batteries for fan during night
- Car's driver's side's side mirror was knocked out.

Anthony Mangahis Jr.

- Technician of Marianas Security Corp.
- Have to wake up 08:00 a.m. every morning to attend work from Monday to Friday
- Sometimes requested by Boss to help repair damaged house
- Have to be monitoring generator of Boss every night to keep it running
 - Need to refill once generator's fuel is low
- House destroyed by typhoon

Tria J. Solito

- House was destroyed by typhoon
- Have no place to live at from Aug 03, 2015 to Aug 22, 2015.
 - Lived in a laundry room with some other people with same situation. No mosquito coil, no power, no water. Location: San Jose
 - Sleep in hotness, also body heat in laundry room.
- Every morning to afternoon, walking under hot sun looking for federal assistants.

Allen A. Camaclang

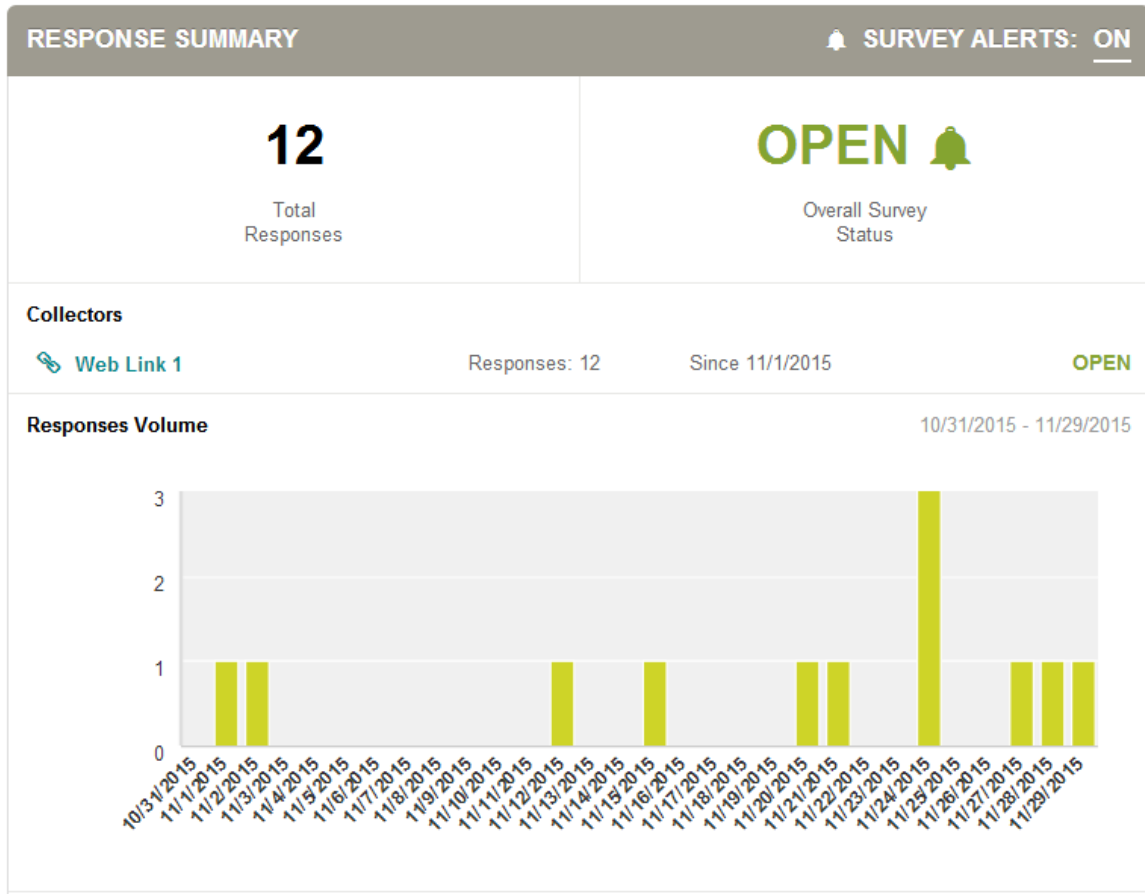
- House was destroyed by typhoon
- Same as Tria, lived in a laundry room with some other people with same situation for short amount of time. No mosquito coil, no power, no water. Location: San Jose
 - Sleep in hotness, also body heat in laundry room.
- Working every day over day as patrol from 20:00 to 06:00

Cody Edwais (Not much information)

- Working every day over day as patrol from 20:00 to 06:00
- No power in house
- Car was scratched by tree branches and tin sheets.

Appendix D

Response Summary of Survey



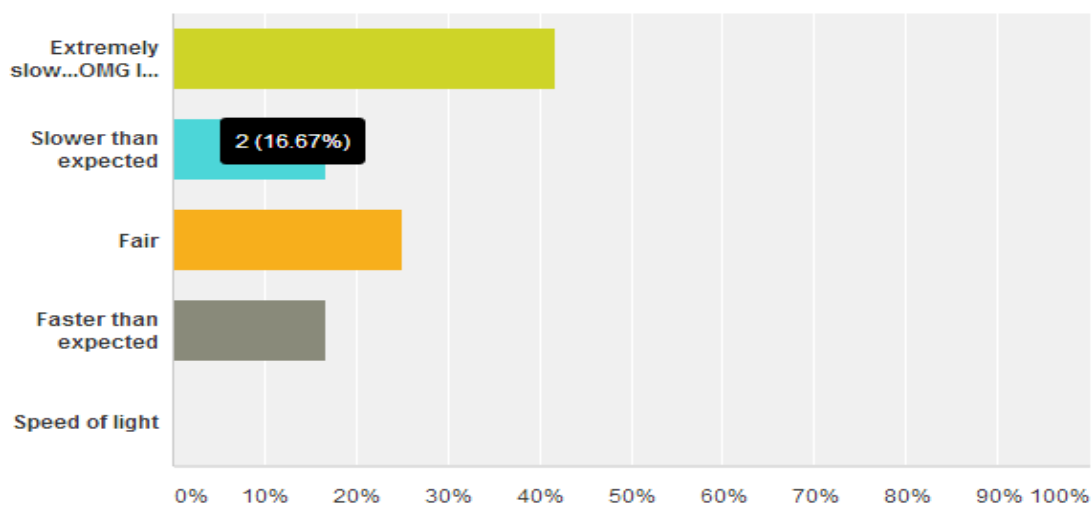
Appendix E

Results of Final Survey on SurveyMonkey.com

Q2 Customize Export

How fast was the electricity recovery process after typhoon?

Answered: 12 Skipped: 0



Answer Choices	Responses
Extremely slow...OMG I am suffering so much!	41.67% 5
Slower than expected	16.67% 2
Fair	25.00% 3
Faster than expected	16.67% 2
Speed of light	0.00% 0
Total	12

Comments (11)

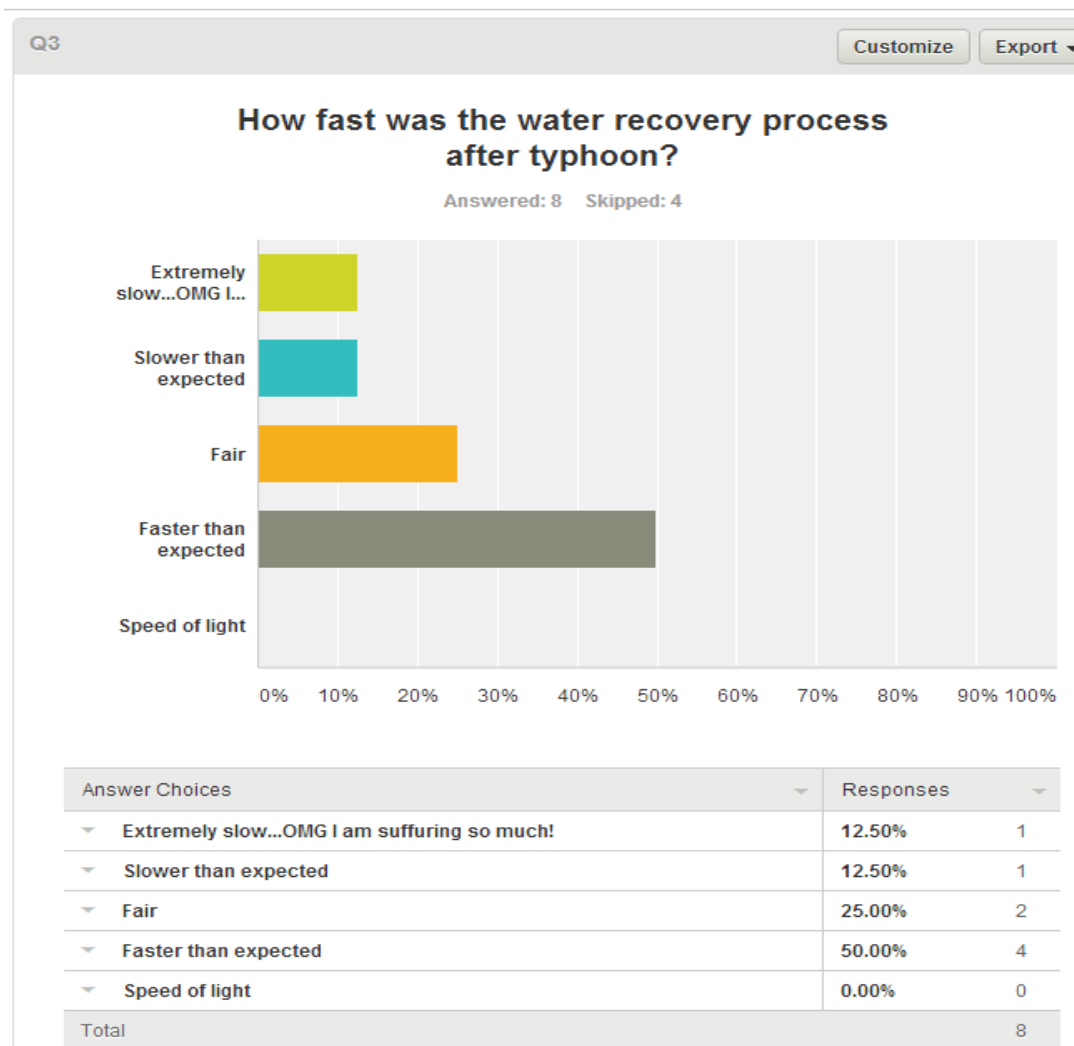
Responses (11) | Text Analysis | My Categories

Categorize as... | Filter by Category | Search responses

Showing 11 responses

- One month and one day after the typhoon. 11/29/2015 8:55 PM [View respondent's answers](#)
- 3 months 11/28/2015 9:31 PM [View respondent's answers](#)
- Almost 2 months 11/27/2015 4:54 PM [View respondent's answers](#)
- 1 day, since Tinian wasn't affected as much as Saipan 11/24/2015 2:05 PM [View respondent's answers](#)
- Here on Tinian not so long. I think only days. Internet connection though was for a week or two. 11/24/2015 11:19 AM [View respondent's answers](#)
- 53 days 11/21/2015 11:23 PM [View respondent's answers](#)
- 1 month 11/20/2015 7:35 PM [View respondent's answers](#)

- 53 days 11/21/2015 11:23 PM [View respondent's answers](#)
- 1 month 11/20/2015 7:35 PM [View respondent's answers](#)
- 1 month 11/15/2015 7:46 PM [View respondent's answers](#)
- two months 11/12/2015 5:34 PM [View respondent's answers](#)
- 66 days 11/2/2015 2:26 PM [View respondent's answers](#)
- 55 days 11/1/2015 8:32 AM [View respondent's answers](#)



Comments (7)

● Responses (7)
☁ Text Analysis
📁 My Categories

Categorize as...
Filter by Category
Search responses
🔍
?

Showing 7 responses

One month and one day after they typhoon.
 11/29/2015 8:55 PM [View respondent's answers](#)

2 months
 11/28/2015 9:31 PM [View respondent's answers](#)

Almost 2 months.
 11/27/2015 4:54 PM [View respondent's answers](#)

Water outage was about 2 days long
 11/24/2015 2:05 PM [View respondent's answers](#)

2 days max
 11/24/2015 11:19 AM [View respondent's answers](#)

1 week
 11/21/2015 11:23 PM [View respondent's answers](#)

2 weeks
 11/20/2015 7:35 PM [View respondent's answers](#)

Q4
Export ▾

What places received primary electricity and water? Why?

Answered: 12 Skipped: 0

● Responses (12)
☁ Text Analysis
👤 My Categories

Categorize as... ▾
Filter by Category ▾

Search responses 🔍 ?

Showing 12 responses

Hospital?
11/29/2015 8:55 PM [View respondent's answers](#)

Garapan
11/28/2015 9:31 PM [View respondent's answers](#)

Garapan. It's where the hospital was at & that's the most important.
11/27/2015 4:54 PM [View respondent's answers](#)

Hospitals, Government agencies and Schools because most of these places were provided for shelter and hospitals were a priority since there were patients
11/24/2015 2:05 PM [View respondent's answers](#)

Emergency places
11/24/2015 1:50 PM [View respondent's answers](#)

our village on Tinian
11/24/2015 11:19 AM [View respondent's answers](#)

the hospital is the most important. there are patients that needs electricity to live.

the hospital is the most important. there are patients that needs electricity to live.
11/21/2015 11:23 PM [View respondent's answers](#)

Garapan, because they think tourism is more important than residences.
11/20/2015 7:35 PM [View respondent's answers](#)

Primary roads, basically main roads, probably easier fix and they source out the inner roads or secondary roads power and water.
11/15/2015 7:46 PM [View respondent's answers](#)

government offices because people need to continue their jobs.
11/12/2015 5:34 PM [View respondent's answers](#)

Hospital because of all the sick patients and the new incoming patients.
11/2/2015 2:26 PM [View respondent's answers](#)

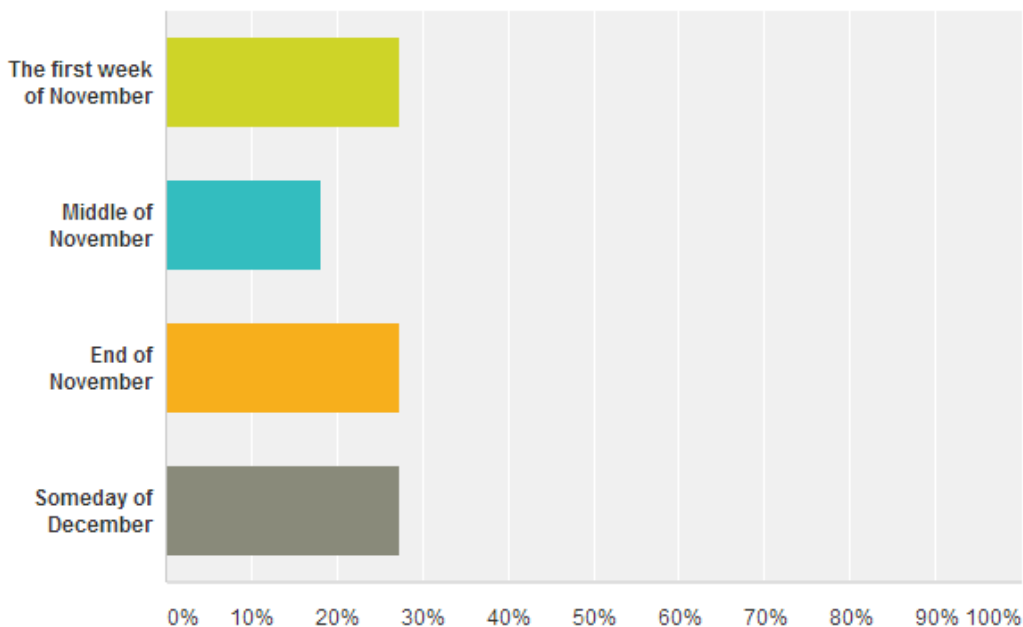
for electricity: they prioritize the hospital first, then i think they start at navy hill then going down. for water: i'm not sure what places, but chalan kanoa got water 1 week after typhoon soudelor.
11/1/2015 8:32 AM [View respondent's answers](#)

Q5

Customize Export

When will Saipan fully recover? (Electricity and Water)

Answered: 11 Skipped: 1



Answer Choices	Responses
The first week of November	27.27% 3
Middle of November	18.18% 2
End of November	27.27% 3
Someday of December	27.27% 3
Total	11

Q6
Export ▾

When was the date of action of recovery? (When did you see people working on recovery)How many days after typhoon or the exact date.

Answered: 10 Skipped: 2

● Responses (10)
☁ Text Analysis
📁 My Categories

Categorize as... ▾
Filter by Category ▾

🔍
?

Showing 10 responses

A couple of days after the typhoon.
11/29/2015 8:55 PM [View respondent's answers](#)

Right after the typhoon- the next day specifically, you can see people & government officials working hard and immediately taking action into recovery.
11/27/2015 4:54 PM [View respondent's answers](#)

I'm not too sure, since I am not from Saipan
11/24/2015 2:05 PM [View respondent's answers](#)

i think everyone was helping out right away
11/24/2015 1:50 PM [View respondent's answers](#)

Maybe 1 week after the typhoon
11/21/2015 11:23 PM [View respondent's answers](#)

Right after the typhoon. People were moving those broken trees away from the road.
11/20/2015 7:35 PM [View respondent's answers](#)

4-5 days. I think we were in a state of SHOCK
11/15/2015 7:46 PM [View respondent's answers](#)

i think everyone was helping out right away
11/24/2015 1:50 PM [View respondent's answers](#)

Maybe 1 week after the typhoon
11/21/2015 11:23 PM [View respondent's answers](#)

Right after the typhoon. People were moving those broken trees away from the road.
11/20/2015 7:35 PM [View respondent's answers](#)

4-5 days. I think we were in a state of SHOCK
11/15/2015 7:46 PM [View respondent's answers](#)

right after the typhoon.
11/12/2015 5:34 PM [View respondent's answers](#)

The day after it hit! August 3, 2015
11/2/2015 2:26 PM [View respondent's answers](#)

Many it was the a few days after the typhoon. For #7. it's "feel" NOT "fill or thinking"
11/1/2015 8:32 AM [View respondent's answers](#)

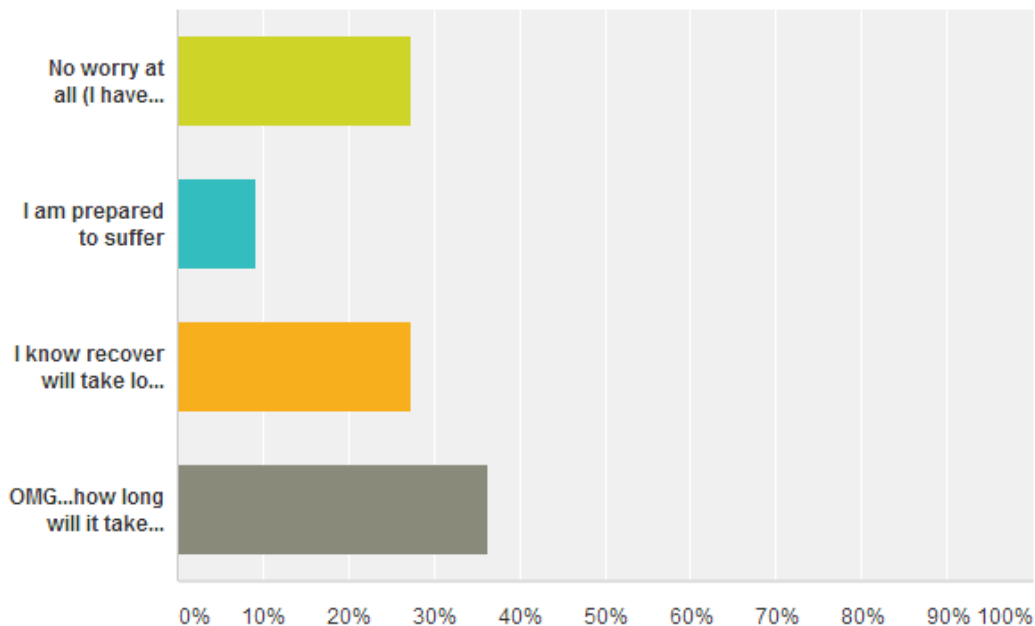
Q7

Customize

Export

How did you feel or think, when you heard about rumors about the time length of diaster recovery?

Answered: 11 Skipped: 1



Answer Choices	Responses
▼ No worry at all (I have confidence of our government)	27.27% 3
▼ I am prepared to suffer	9.09% 1
▼ I know recover will take long. Should I go offisland or move out from current home?	27.27% 3
▼ OMG...how long will it take to recover?	36.36% 4
Total	11

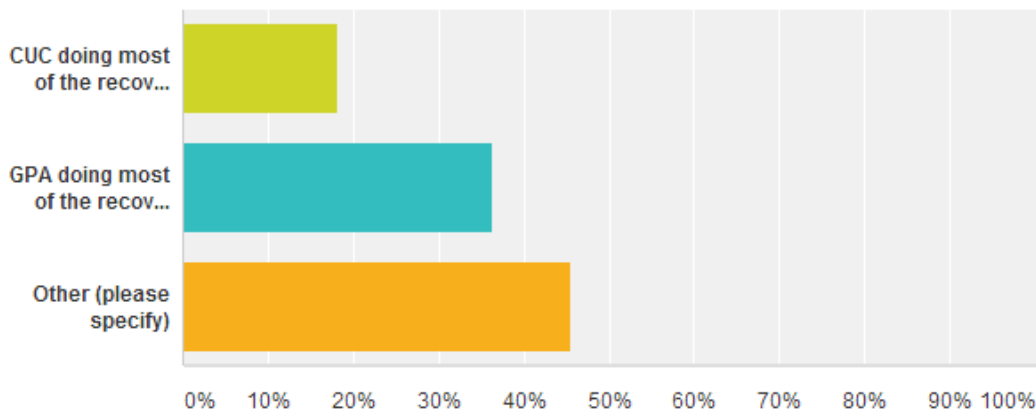
Q8

Customize

Export ▾

Job distribution among CUC (Commonwealth Utilities Corporation) and GPA (Guam Power Authority)

Answered: 11 Skipped: 1



Answer Choices	Responses
▾ CUC doing most of the recovery work	18.18% 2
▾ GPA doing most of the recovery work	36.36% 4
▾ Other (please specify) Responses	45.45% 5

● Responses (5) 🗨️ Text Analysis 📁 My Categories

Categorize as... ▾ Filter by Category ▾ Search responses 🔍 ?

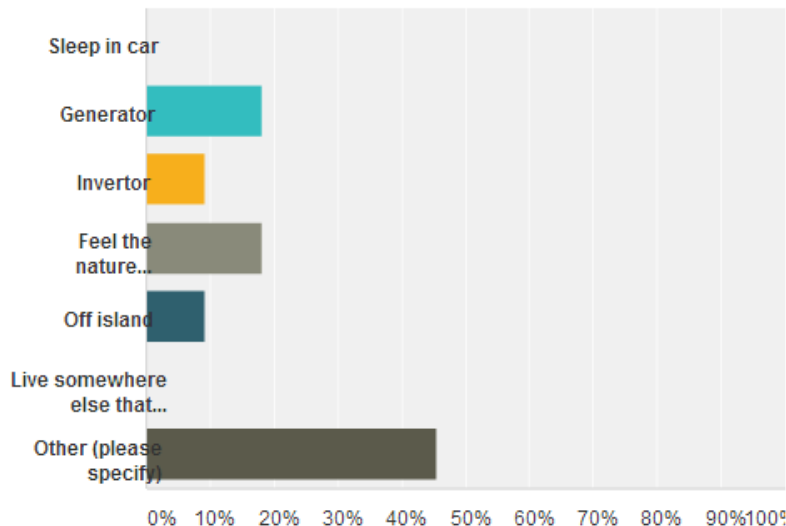
Showing 5 responses

- Both are doing their best to help Saipan recover
11/28/2015 9:31 PM [View respondent's answers](#)
- There shouldn't even be a competition among the two. They're both working towards one goal: restoring power on Saipan.
11/27/2015 4:54 PM [View respondent's answers](#)
- I feel that both agencies worked extremely hard to get the power to restore back on the island of Saipan
11/24/2015 2:05 PM [View respondent's answers](#)
- CUC staff not trained as GPA and other island utility staff were.
11/15/2015 7:46 PM [View respondent's answers](#)
- They are both slow at doing the work because compared to Philippines. Philippines didn't take that long to recover, it was fast. CUC & GPA lack materials, it took them a very long time!!
11/1/2015 8:32 AM [View respondent's answers](#)

Q9 Customize Export

Your temporarily solution for power outage after typhoon

Answered: 11 Skipped: 1



Answer Choices	Responses
Sleep in car	0.00% 0
Generator	18.18% 2
Invertor	9.09% 1
Feel the nature (Suffer!)	18.18% 2
Off island	9.09% 1
Live somewhere else that provide generator	0.00% 0
Other (please specify) Responses	45.45% 5

Responses (5)
 Text Analysis
 My Categories

Categorize as... Filter by Category Search responses

Showing 5 responses

- I wasn't able to experience such a tragic time since I am from Tinian
11/24/2015 2:05 PM [View respondent's answers](#)
- Stay at the same home
11/21/2015 11:23 PM [View respondent's answers](#)
- From invertor to sleeping in car to suffering in nature air in a tent to finally a generator that arrived a day before my power was restored.
11/15/2015 7:46 PM [View respondent's answers](#)
- Went to a hotel, then got an invertor, then finally got a generator!
11/2/2015 2:26 PM [View respondent's answers](#)
- Stay at the same home because I didn't have any damages. Just used a small chargeable fan and candles
11/1/2015 8:32 AM [View respondent's answers](#)

Total 11

Q10 Export ▾

Other

Answered: 10 Skipped: 2

Answer Choices ▾	Responses ▾
A little experience after typhoon that you wanted to share? Responses	80.00% 8
First time experienced a disaster? Responses	90.00% 9
Crime rate after typhoon. Low/High...if yes, are people taking advantage of disaster? Responses	90.00% 9
Age Responses	100.00% 10
Gender Responses	100.00% 10

A little experience after typhoon that you wanted to share?

I can say, I grew a lot of muscle carrying 5 gallons back and forth at least 10 times a day!

11/27/2015 4:54 PM [View respondent's answers](#)

that our islands should be more prepared next time around

11/24/2015 2:05 PM [View respondent's answers](#)

I thought NMC semester would start next year and I shouldn't have came back to Saipan is this was going to happen.

11/21/2015 11:23 PM [View respondent's answers](#)

Life without power is hot like hell

11/20/2015 7:35 PM [View respondent's answers](#)

I made the best of a few days. When water came on before power I didn't care how wasteful it may seem but I feel my kids kiddie pool and let them enjoy. Then on the day I decided to pitch a tent and sleep outside, I built a camp fire and made s'mores with my kids.

11/15/2015 7:46 PM [View respondent's answers](#)

too much heat kills with no power. going outside of home with lots of damages to other homes, kindly helped

11/12/2015 5:34 PM [View respondent's answers](#)

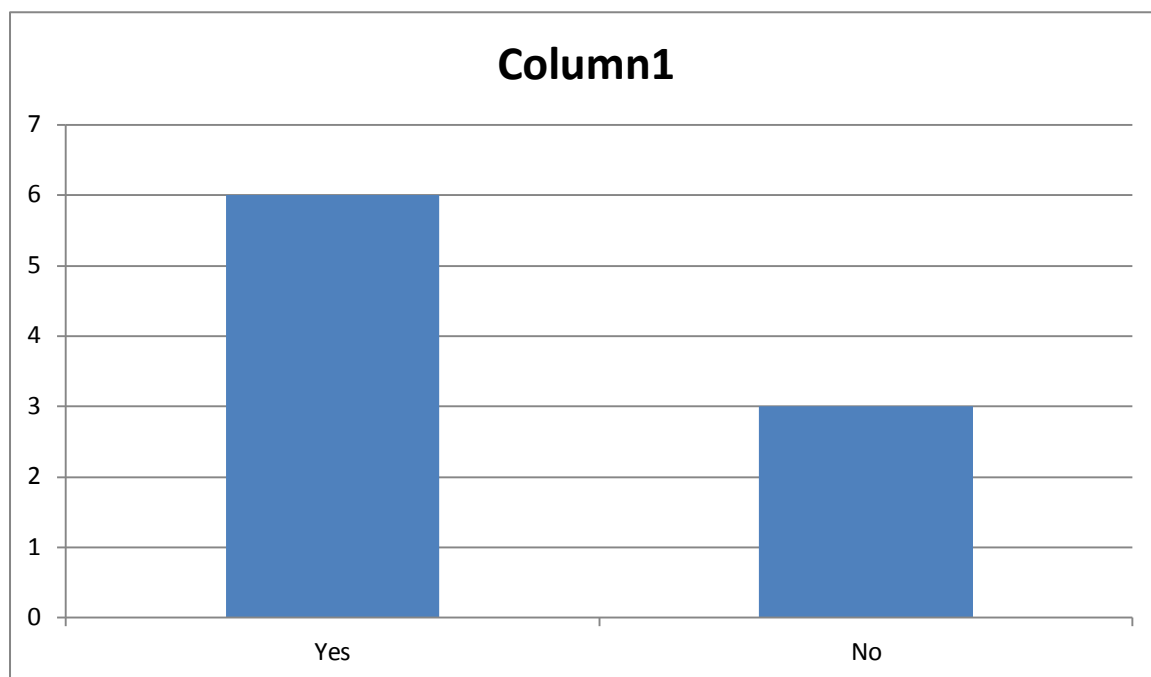
It was HOT!

11/2/2015 2:26 PM [View respondent's answers](#)

I went on a vacation at Philippines for 3 weeks and when I came back to Saipan, then 2 weeks later Typhoon Soudelor happen. I should have stayed at Philippines longer if I knew this would happen. I also panick because I thought NMC would be postponed like next year, so I was thinking of transferring to Guam ASAP.

11/1/2015 8:32 AM [View respondent's answers](#)

First time experienced a disaster?



Crime rate after typhoon. Low/High...if yes, are people taking advantage of disaster?

High.

11/29/2015 8:55 PM [View respondent's answers](#)

I have not been paying attention to the crime rates.

11/27/2015 4:54 PM [View respondent's answers](#)

low

11/24/2015 2:05 PM [View respondent's answers](#)

High. There's people stealing generators from FEMA, shoplifting. And recently, the Karidat and Cha was burglarized.

11/21/2015 11:23 PM [View respondent's answers](#)

High, yes they're taking advantage. Right after the typhoon, people siphoned fuels from others' cars, also from FEMA generator.

11/20/2015 7:35 PM [View respondent's answers](#)

HORRIBLY HIGH!! More like they were desperate.

11/15/2015 7:46 PM [View respondent's answers](#)

low people are concentrating on recovering

11/12/2015 5:34 PM [View respondent's answers](#)

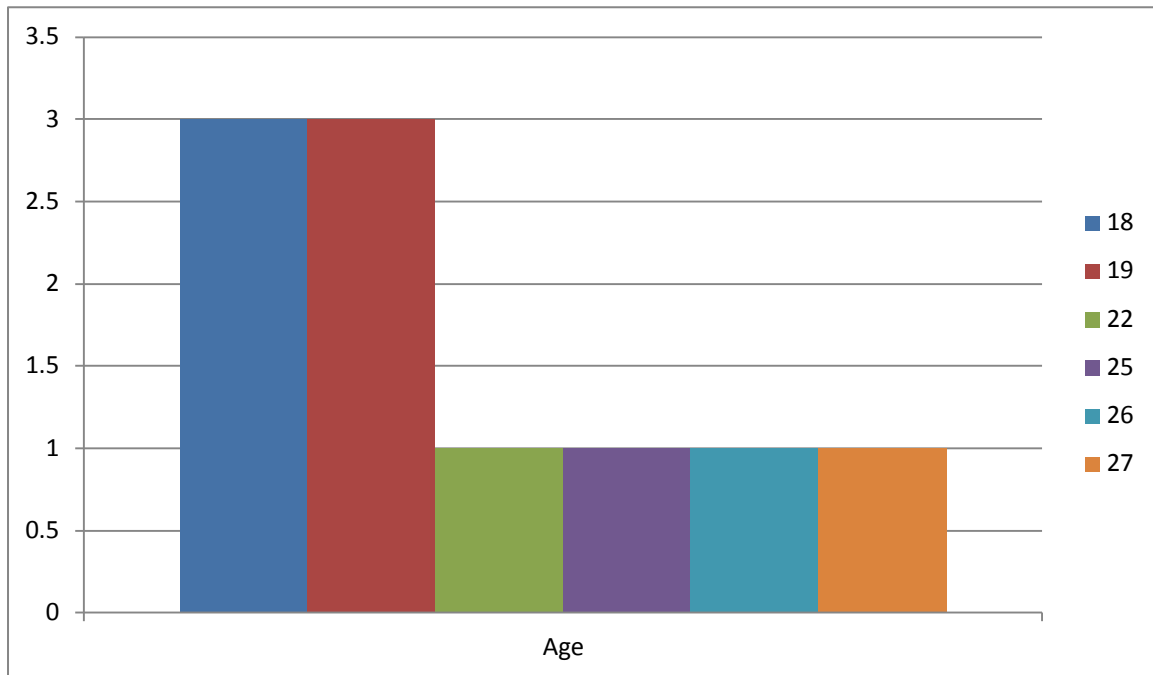
It was kinda high because of the people stealing fuel from the FEMA generator and other vehicles.

11/2/2015 2:26 PM [View respondent's answers](#)

High, people are stealing generators from FEMA, shoplifting, and price gouging (making their prices high)

11/1/2015 8:32 AM [View respondent's answers](#)

Age



Appendix F

Peer Feedbacks of Pilot Survey

<p>9. Christopher Wu Power and Water Recovery after Typhoon</p>	<p>https://www.surveymonkey.com/r/PRHB3WR</p>	<p>VC - Your survey is great. Simple and easy to understand. MS: Your survey is great. On point with the questions. RL- very nice survey CQ- Your survey questions were easy to take and questions were simple.</p>	<p>DT- Your survey asked questions to which I did not know the answer to. Some questions were very difficult for me to answer. You could revise them. CJLA- Great survey! Your survey is easy to understand.</p>
<p>7. Christopher Wu Pilot Survey: Power and Water Recovery after Typhoon</p>	<p>https://www.surveymonkey.com/r/PRHB3WR</p>	<p>ASN - Excellent questions, hope your survey gets a lot of responses and you get a lot of feedback from those that you have given the survey to. LMA-#5 should be a "When will the Island of Saipan fully recover?" #9 "Wht was your temporary solution or situation.... your fourth choice should be "Feel or Live with Nature". Other than that I liked the survey and look forward to reading the results. DC: questions are very detailed and you could edit your essay into just selecting more than one answer choice because some of us experienced more than just sleeping in the car, etc. . overall, loved this survey so far.</p>	<p>VC - Need to fix some of your spelling mistakes, but your survey questions are great JF- Excellent sense of humor to make the survey easy to go through. VKS- GREAT SURVEY!!!! JC- Good questions, but you might want to change some. JP- awesome survey, i like how you have questions that will really give you good information to write your paper. JV- This is a great survey, I'm sure you will gather lots of information that will help you on your research paper.</p>