

Navigate



On your own

We will hear from an expert whose research group used satellite data to investigate patterns in who lost power in Texas.

What questions do you still have that you hope this interview will help answer?

→ Be ready to share your ideas with the class.

Interview with an Expert



With your group

As you listen to the podcast, pause to discuss the embedded questions. Then respond to the following questions in your notebook:

1. What choices would you make if you had control of the power grid in your community during a crisis?
2. What kinds of design solutions might have prevented people from having to make these decisions? **Add these ideas to your**

Engineering Design Tracker.

Interview with an Expert



With your class

- What new ideas did your group take away from the podcast?
- Why couldn't Dr. Carvallo explain what had caused the patterns of who lost power?
- What design solutions did you add to your Engineering Design Trackers?
- What *trade-offs* are involved in making decisions about whose power to cut in a blackout?

Hour 1

- 1. Henry, Max, Tristan, Brandon**
- 2. Komal, Jay, Cameron, Jaeden**
- 3. Clare, Aaron W, Shawwnna, Taylor**
- 4. Aaron M, Kian, Addie, Jordyn**
- 5. Lataysia, Joseph, Aidan, Aniyah**
- 6. Bale, Evan, Marissa**
- 7. Oleg, Charlie, Kevin, Julia**

Hour 2

1. Cooper, Kieran, Daniel, Lundy
2. Joseph, Katie S, Yeabi, Frida
3. Carly, Corwin, Nehemiah, Katie T
4. Justin, Marisa, Cameron M, Alex
5. Euna, Jennifer, Mikayla, Jessie
6. Marco, Anaiya, Omari, Melanie
7. Za'Mariyah, Bryce, Cameron S,
Vicky

Navigate



Turn and Talk

What *trade-offs* did we identify last time that are involved in making decisions about whose power to cut in a blackout?

→ Be ready to share your ideas with the class.

Exploring Inherent Disparities



With a partner

- Read the introduction to *Texas Case Studies*
- Underline passages that help answer the question of why some people lost power in Texas and others did not.

Exploring Inherent Disparities



On your own

- Read the case studies of Family A and Family B in *Texas Case Studies*
- Respond to the reflection questions in your notebook.
- Be ready to share some of your ideas with the class if you feel comfortable.

Exploring Inherent Disparities



With your class

- How were the experiences of these 2 families different?
- What are some other difficult decisions about power that involve making *trade-offs*?
- How might these *trade-offs* affect some people more than others?

Navigate



With your class

Think back to Electric City. Imagine we could not turn the generator. What other solutions could we use to power our model city even if the generator is not functioning?

Could we apply a similar solution to prevent a crisis in real life, and avoid needing to make inequitable trade-offs?

Navigate



Exit Ticket

Complete the Electronic Exit Ticket.

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