

FOLLOW THE POWER

Data Centers #2 · A Channel 5 Kids Adventure

with Lena Ashgrove and the Infrastructure Guard



CREDITS

Follow the Power · Data Centers #2 · Kids edition (ages 6–9)

Story and production: GOTB Consulting, Chicago

Guide: Lena Ashgrove, Channel 5 · Heroes: Gridline, Undertow, Commons

AI-GENERATED ART, FICTIONAL CHARACTERS

All characters, the town of Prairie Bend and Channel 5 are fictional. Any resemblance to real people is a coincidence. No real logos are shown.

Facts in this book were checked against public sources before printing.

Safety first: never go near power lines, poles, substation fences or fallen wires.

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MEET YOUR GUIDES



**LENA
ASHGROVE**

Channel 5 reporter. She asks the questions and explains the answers from the news desk.



GRIDLINE

Hero of the power lines. She can see where electricity flows. This is her big adventure!



UNDERTOW

Hero of water. He knows how water moves and why the lake is for everyone.



COMMONS

Hero of neighbors. His lantern glows brighter when people show up.



LENA

LAST TIME WE VISITED THE CLOUD'S HOME.
TODAY WE ASK: WHERE DOES ITS ELECTRICITY
COME FROM? LET'S FOLLOW THE POWER!



Power plants spin big wheels called turbines. Spinning magnets and wire make electricity.

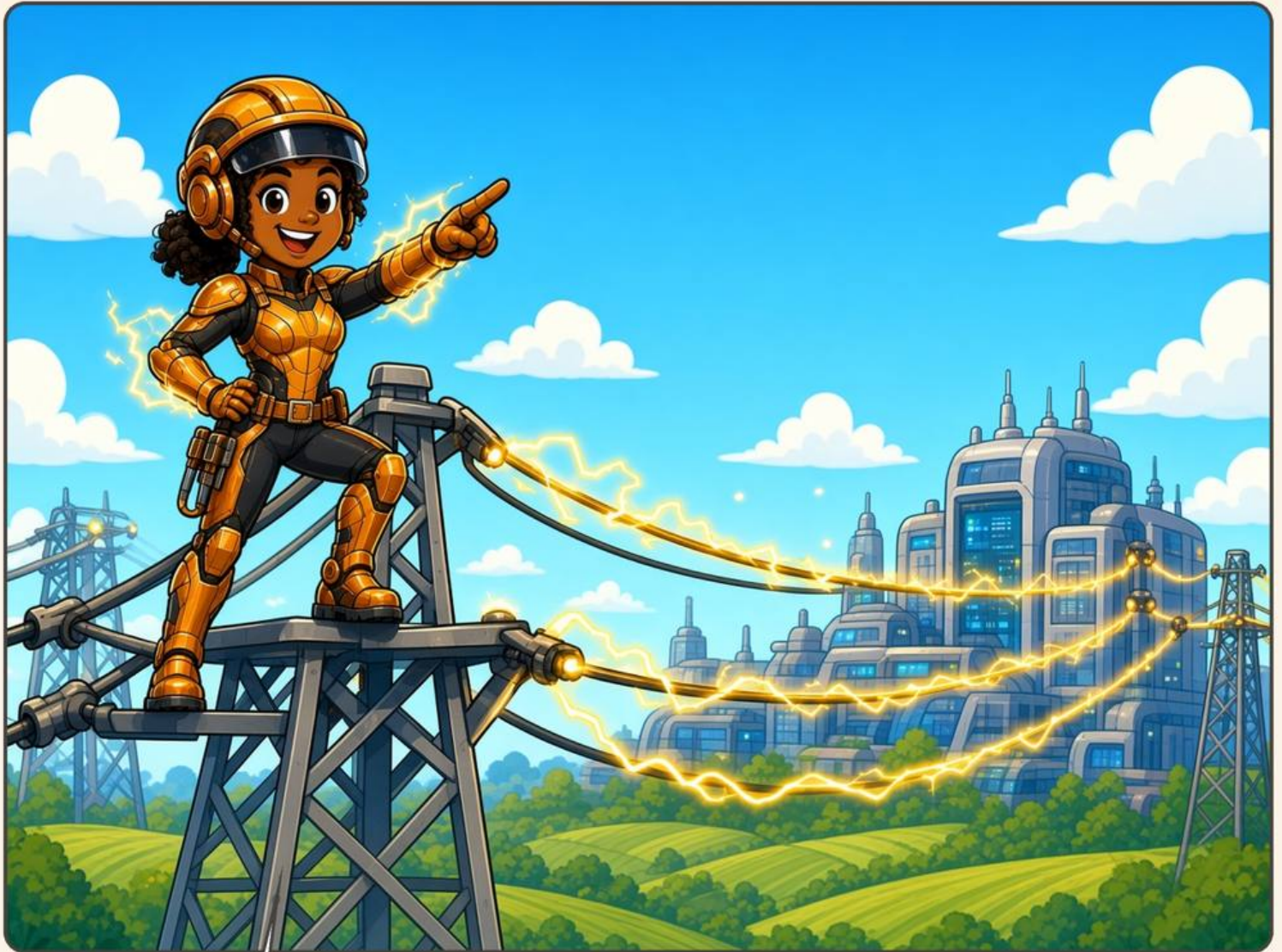


GRIDLINE

THIS TRANSFORMER MAKES THE POWER EXTRA STRONG SO IT CAN TRAVEL FAR. NEXT STOP: THE BIG TOWERS!

TRY THIS!

Wave back at Gridline! Then find the tall tower behind the transformer.



GRIDLINE

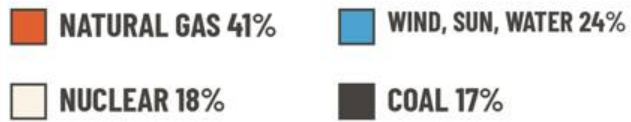
VERIFIED

AMERICA HAS THOUSANDS OF MILES OF THESE
BIG LINES, AND MILLIONS OF MILES OF SMALL
ONES!

TRY THIS!

Follow the gold lines with your finger, from the tower to the city.

U.S. ELECTRICITY, 2025 (EIA)



LENA

OUR POWER COMES FROM GAS, NUCLEAR, COAL, WIND, SUN AND WATER. ALL OF THEM SPIN OR SHINE INTO THE SAME WIRES.

TRY THIS!

Point to each picture: flame, atom, coal, sun, wind and water.

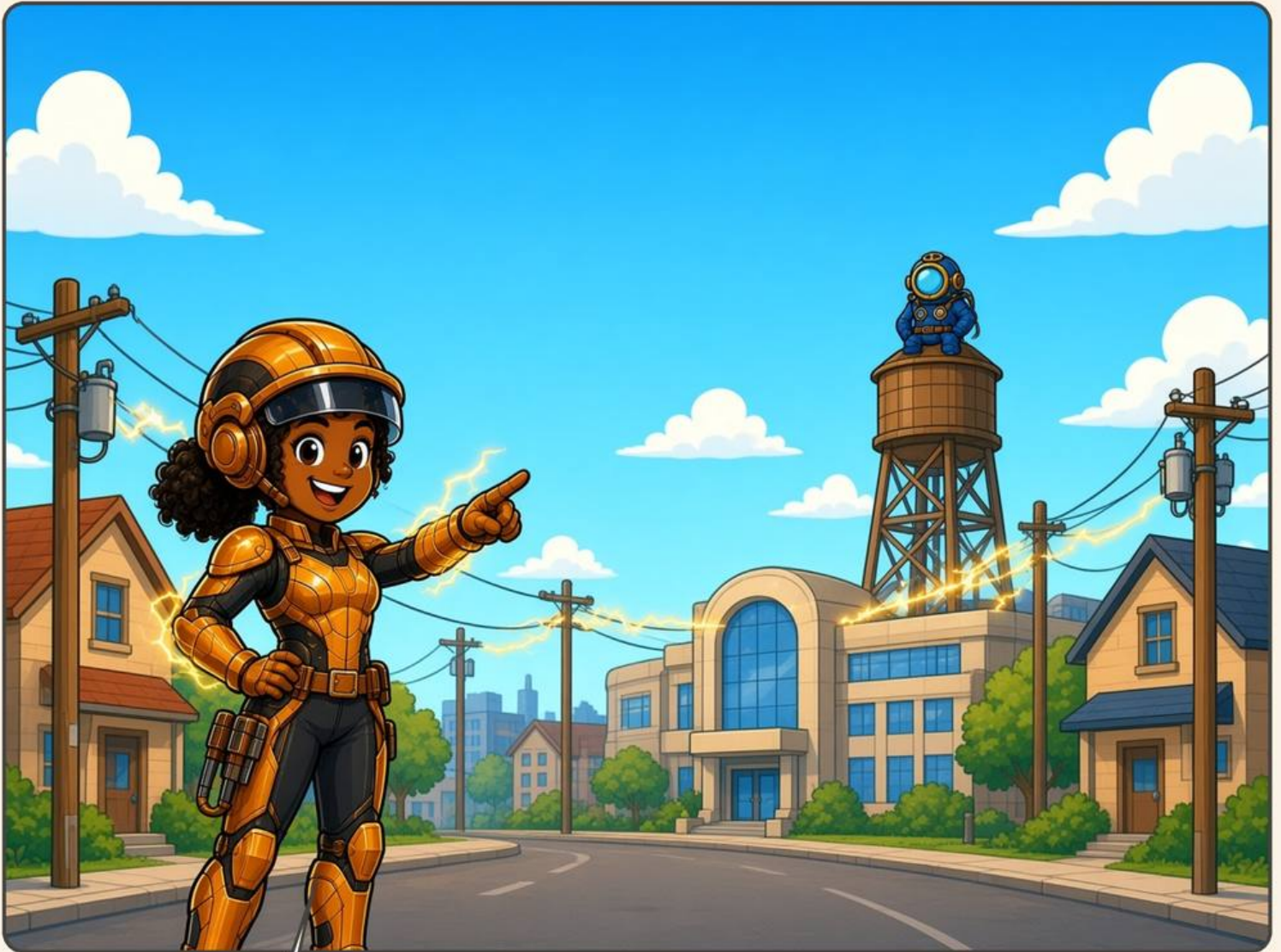


GRIDLINE

AT THE SUBSTATION, TRANSFORMERS MAKE THE
POWER GENTLER FOR HOMES. NEVER GO NEAR
A FENCE LIKE THIS!

TRY THIS!

Safety rule: stay far away from power fences, poles and fallen wires. Tell a grown-up!



GRIDLINE

VERIFIED

SMALLER LINES CARRY IT TO HOMES, SCHOOLS
AND DATA CENTERS. ONE BIG AI BUILDING CAN
USE AS MUCH AS 100,000 HOMES!

TRY THIS!

Can you spot Undertow waving from the water tower?



Grid helpers keep power made and power used exactly balanced, every second. If it tips, lights can go out!

TRY THIS!

Hold out both arms like a seesaw. Can you keep them perfectly level?



COMMONS

WHEN STORMS KNOCK LINES DOWN, LINE
CREWS COME FROM NEAR AND FAR AND WORK
UNTIL THE LIGHTS COME BACK!

TRY THIS!

Count the hard hats on this page!

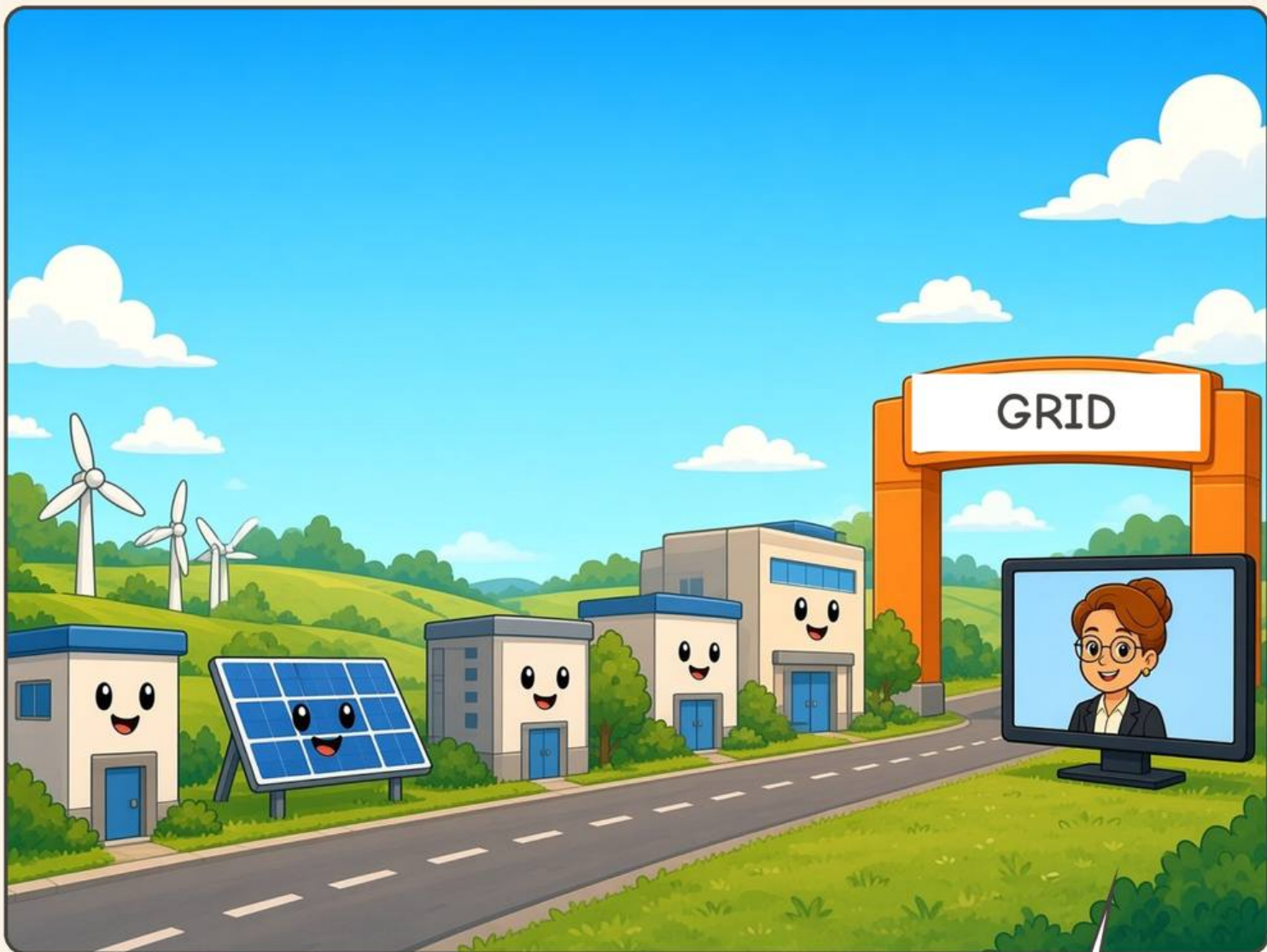


COMMONS

LINE WORKERS LEARN BY DOING, WITH TEACHERS, FOR UP TO THREE YEARS. IT'S A BIG, IMPORTANT JOB!

TRY THIS!

What tools keep these learners safe? Look for hard hats, gloves and harnesses.



LENA

VERIFIED

LOTS OF NEW POWER PLANTS AND BUILDINGS
ARE WAITING TO PLUG IN. BUILDING NEW
LINES CAN TAKE MANY YEARS.



LENA

FROM SPINNING WHEEL TO YOUR
NIGHT-LIGHT, THAT'S THE GRID! THANKS FOR
FOLLOWING THE POWER WITH CHANNEL 5!

Made with GOTB Consulting, who help plan the power, water and public works behind places like this.

WORDS TO KNOW

POWER PLANT

A place that makes electricity.

TURBINE

A big wheel that spins to make electricity.

GENERATOR

Magnets and wire that turn spinning into power.

TRANSFORMER

A box that makes power stronger or gentler.

TRANSMISSION LINE

A big line on tall towers that carries power far.

SUBSTATION

A fenced place where power gets ready for town.

THE GRID

All the plants, lines and helpers working together.

LINE WORKER

A person who builds and fixes power lines.

FOLLOW THE POWER!

Trace the path with your finger, from start to finish.

1. POWER PLANT

A turbine spins and makes electricity.



2. STEP-UP TRANSFORMER

Makes the power strong for a long trip.



3. BIG TOWERS

High-voltage lines carry power far away.



4. SUBSTATION

Makes the power gentler for town.



5. POLES AND WIRES

Smaller lines go down your street.



6. HOMES, SCHOOLS AND DATA CENTERS

The lights turn on and the cloud runs!

WORD SEARCH

Find these words. They go across, down, or slanted.

D	S	J	L	I	N	E	S	M	C	A	W
A	P	G	G	T	B	C	P	W	I	R	E
M	A	Y	M	N	U	C	R	T	V	G	W
I	R	G	K	C	J	R	K	E	A	N	D
E	K	H	R	Y	D	P	B	A	W	B	O
P	F	W	S	I	G	L	O	I	R	G	E
N	V	M	D	M	D	A	N	G	N	A	I
T	J	T	A	G	F	N	P	M	U	E	V
T	D	B	O	E	G	T	O	O	I	A	U
V	O	L	T	W	K	J	W	M	C	C	C
G	T	V	H	A	E	U	E	L	L	U	O
E	T	P	T	E	M	R	R	F	V	E	J

**POWER
LINES**

**GRID
VOLT**

**TOWER
PLANT**

**WIRE
SPARK**

**TURBINE
CREW**

QUICK QUIZ

Circle the best answer!

1. What spins at a power plant to make electricity?

A turbine

A cookie

2. Big towers carry power...

Far away

Into the ocean

3. What should you do near a substation fence?

Stay far away

Climb it

4. Grid helpers keep power made and power used...

Balanced

Upside down

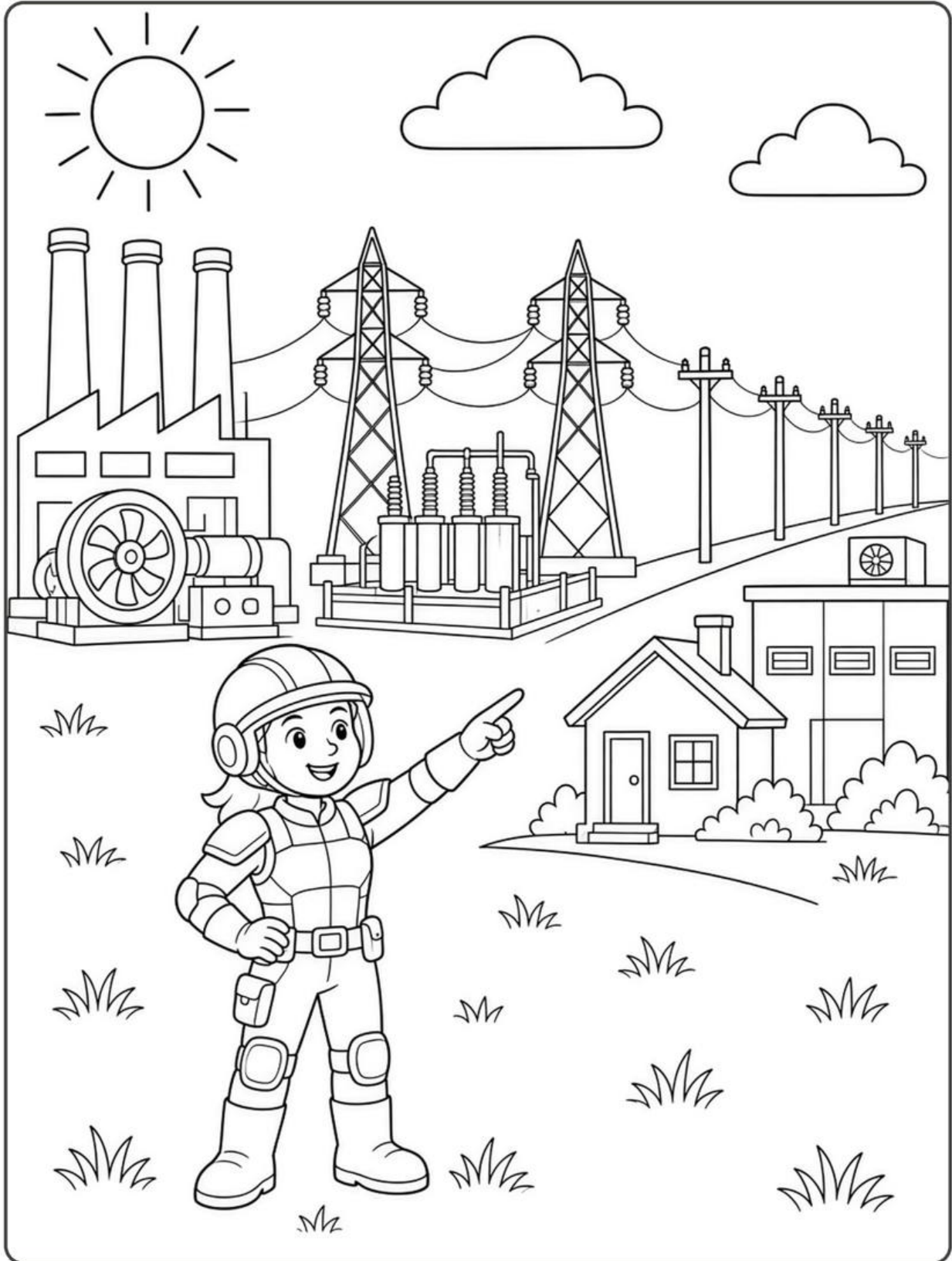
5. Who fixes power lines after a storm?

Line crews

Nobody

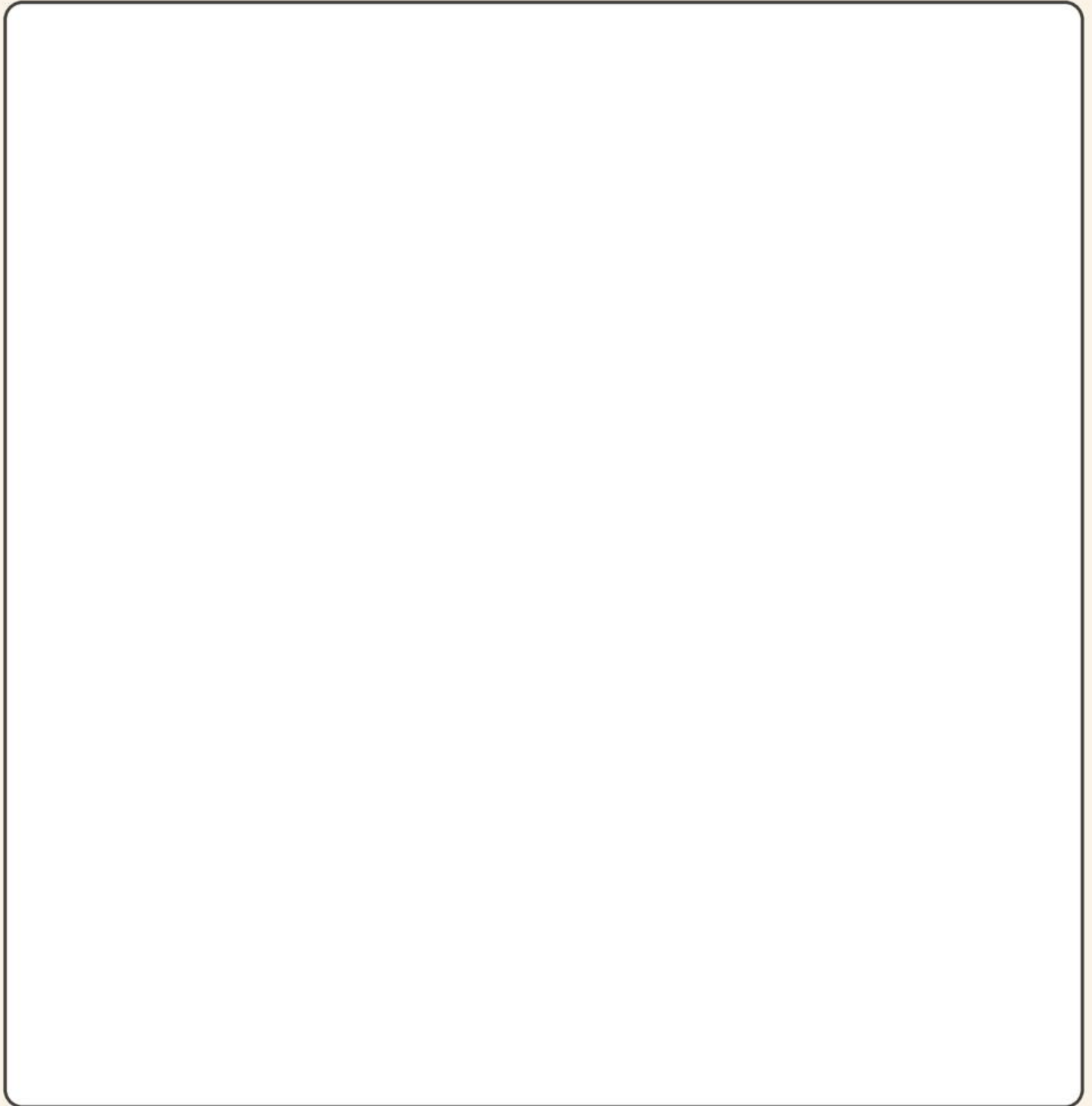
Answers: 1 a turbine · 2 far away · 3 stay far away · 4 balanced · 5 line crews

COLOR THE POWER PATH!



DRAW THE POWER PATH

Draw a power plant, towers, a substation and your home!



My power plant uses: _____

LET'S TALK ABOUT IT

Questions to share with a grown-up

WHAT THINGS IN YOUR HOME USE
ELECTRICITY?

WHY DO YOU THINK BIG POWER LINES HANG
SO HIGH UP?

WHAT WOULD YOU DO IF THE POWER WENT
OUT AT NIGHT?

WHO KEEPS THE LIGHTS ON IN YOUR TOWN?
HOW COULD YOU THANK THEM?

WHICH HERO WOULD YOU LIKE TO MEET:
GRIDLINE, UNDERTOW OR COMMONS?

ABOUT GOTB CONSULTING

GOTB Consulting is a Chicago team that helps plan the big systems towns depend on.

We work on four things you saw in this book:

DATA CENTERS

Where the cloud lives

POWER

Electricity for homes and buildings

WATER

Clean water and smart cooling

PUBLIC WORKS

Roads, pipes and places for people

THE END!



THANKS FOR FOLLOWING THE POWER WITH CHANNEL 5!

Next time: more adventures with the Infrastructure Guard!

GOTB CONSULTING • CHICAGO

Data centers • Power • Water • Public works

AI-generated art, fictional characters