

Endorsement:

What stands out immediately is that this book isn't trying to teach electricity the way textbooks do. It's trying to help readers **finally make sense of it.**

Instead of starting with formulas or abstractions, the book starts with curiosity, why things work, where power actually goes, how ideas evolved, and why modern conversations around energy, transportation, and climate often collapse under their own confusion. The humor isn't decorative; it's structural. It lowers resistance so readers stay with concepts that would otherwise feel inaccessible or intimidating.

The book is distinct in its willingness to live in the middle ground between education and provocation. Not just explaining AC vs. DC or historical figures like Tesla and Edison; you're poking at the absurdities of how we talk about energy today, corporate messaging, public misunderstanding, political oversimplification, while still grounding everything in factual reference and visual support.

Books like this don't struggle because they lack content. They struggle because **they don't fit neatly into a single shelf.**

This is not a children's science book. It's not academic engineering text. It's not pure satire. It appeals instead to readers who are intellectually curious, system-oriented, and tired of being talked down to, people who enjoy learning when it's presented with wit, skepticism, and real-world relevance

Kate Stevenson

Moderator, UK Book Club on Goodreads

[Kate - Hampshire, UK, The United Kingdom \(898 books\) | Goodreads](#)

Educator & STEM Leader Guide

How to Use This Book in Classrooms, Libraries, and Learning Spaces

Hello, Educators! I'm **Eddie Current**, your friendly *Ambassador of Power*. My job is to keep electricity moving and help curious minds understand how it works without blowing a fuse.

This book was created to support conceptual understanding of electricity and **STEM learning through storytelling, humor, and real-world examples**. While Eddie and friends do the entertaining, the science underneath is an ideal companion for **high school STEM courses, trade programs, and workforce training environments**.

Intended Audience & Grade Range

This collection is well suited for:

~~ **Middle School (Grades 6–8)** – Concept reinforcement & discussion

~~ **High School (Grades 9–12)** – Concept review, literacy crossover

- * Introductory electricity concepts

- * Reinforcement alongside math based courses

- * STEM literacy and career exploration

~~ **Trades & Technical Schools**

- * Electrical, HVAC, construction, and industrial programs

- * Pre-apprenticeship and workforce training

- * Safety-focused conceptual understanding

~~ **Adult Learners & Career Changers**

- * Refresher learning, foundational understanding before hands-on training

Core STEM Concepts Covered

Students are introduced to foundational electrical ideas, including:

~~ **Electric current** – how electricity flows

~~ **Voltage** – what pushes electricity along

~~ **Resistance** – why electricity sometimes slows down

~~ **Circuits** – closed paths that allow energy to move

~~ **Electric Utilities** — and rate structures

~~ **Energy generation** – where electricity comes from

~~ **Real-world applications** – homes, devices, transportation

Educator & STEM Leader Guide (continued)

Classroom & STEM Activities (Safe & Simple)

~~ Electricity Spotting

- * Ask students to list everything in the room that uses electricity.
- * Group items by *purpose* (light, heat, motion, sound).

~~ Circuit Storytelling

- * Have students draw a simple “story map” of electricity traveling from — A power source to a device—using characters instead of symbols.

~~ Resistance in Real Life

- * Discuss examples of resistance outside electricity (traffic, water flow, teamwork). Connect the idea back to circuits.

~~ Vocabulary Match-Up

- * Create cards with terms (current, voltage, resistance) and definitions.
- * Let students match them—or invent Eddie-style explanations.

~~ Design a Wired Friend

- * Students design their own “electrical character” and explain what role it plays in a circuit.

(All activities are discussion and creativity-based. No wiring required.)

Discussion Questions (Secondary & Adult Learners)

Use these prompts to support discussion, reflection, or written responses:

- ~~ **Why is electricity** difficult to visualize, and how does storytelling help?
- ~~ **How does thinking** of electricity as a “system” improve understanding?
- ~~ **How do Eddie’s metaphors** compare to what you see in real equipment?
- ~~ **Why is conceptual understanding** important *before* working hands-on?
- ~~ **Where do you encounter** electrical systems in your daily life or trade?
- ~~ **How does power generation** affect how electricity is delivered and used?

Educator & STEM Leader Guide (continued)

Mini Glossary (Trade-Friendly Language)

- ~~ **Electricity** — energy that moves and performs work
- ~~ **Current** — the flow of electrical energy
- ~~ **Voltage** — the force that drives current
- ~~ **Circuit** — a complete path for electricity
- ~~ **Power Source** — where energy begins

Best use

- ~~ A **conceptual companion** to lab or shop work
- ~~ A **pre-lab discussion tool**
- ~~ A **Low-barrier introduction** to electrical thinking

(No formulas required. Eddie explains the “why” so instructors can teach the “how.”)

Curriculum & Program Alignment

This collection supports:

- ~~ **NGSS concepts** (energy, systems, cause & effect)
- ~~ **Career & Technical Education (CTE)** pathways
- ~~ **STEM literacy and workforce readiness**
- ~~ **ELA crossover** (reading comprehension, metaphor, explanation)

Administrative Summary

The Curious Mind’s Complete Theory of Electricity provides:

- ~~ A low-barrier entry into electrical thinking
- ~~ Improved comprehension before hands-on work
- ~~ Increased learner engagement and retention
- ~~ Support for diverse learning styles
- ~~ A professional, safety-conscious instructional tone

Note: This book is designed to support conceptual understanding and discussion. It is not a substitute for hands-on electrical training or safety instruction.

— THE CURIOUS MIND'S —
COMPLETE THEORY OF
ELECTRICITY

THE EDDIE CURRENT OMNIBUS EDITION



BY ED KRAMER

A Story-Driven STEM Collection Blending Humor, Imagination, and
Real-World Power

A Trilogy ~ Introduction of the *Theory of Electricity*

What stands out immediately is that this book isn't trying to teach electricity the way textbooks do. It's trying to help readers **finally make sense of it**. Instead of starting with formulas or abstractions, this book starts with curiosity, why things work, where power actually goes, how ideas evolved, and why modern conversations around energy, transportation, and climate often collapse in. The humor isn't decorative, it's structural, it lowers resistance, readers stay with concepts that would otherwise feel inaccessible or intimidating.

This book is ideal for a STEM curriculum by making electricity approachable for all readers, which is exactly where its value lies

Dedication:

To all my friends, associates, lighting designers, and the countless professionals who keep the world humming, glowing, charging, buzzing, blinking, brewing, scrolling, refrigerating and reclining.

This book is dedicated to *you* — the linemen, electricians, engineers, tinkerers, and curious minds , who've ever tried to explain what electricity actually *is...* only to be met with blank stares or someone asking "*So... have you ever seen it?*"

Now you have an answer. It zips through wires, and occasionally dances with toasters. Its name is **Eddie Current** — and he's here to help.

May your circuits stay strong, your grounding stay firm, and your stories always be well lit.

~~From one spark to another~~

Introduction of the ~~ *Theory Of Electricity* ~~

A Trilogy

What Is Electricity, and

Where Does It Go When It Leaves the Toaster?

What Is Electricity begins with a question most people have wondered about but rarely ask aloud. This book invites readers to pause, look beyond the wall outlet, and reconsider the everyday miracle they rely on without thinking. Accessible to curious adults and younger readers alike, it establishes the tone of the series: inquisitive, friendly, and gently provocative. It reminds readers that not knowing is not a failure — it's an invitation.

Tesla To Toasters To Teslas

The Theory of Electricity

Tesla To Toasters To Teslas is a clever, accessible, and genuinely original exploration of electricity as both a scientific force and a cultural companion. The book succeeds in doing something rare: it demystifies a complex subject without dumbing it down, using humor, curiosity, and everyday objects to invite readers into the story of power.

Adventures of Eddie Current and His Wired Friends

inally it introduces electricity not as a technical subject, but as a character-driven adventure. By personifying electrical concepts, you transform invisible forces into relatable personalities: Eddie Current becomes movement and energy, resistance. Switches and circuits become challenges and choices, Electricity is no longer abstract — it's alive, playful, and purposeful.

These books teach us that technology is understandable, not magical or intimidating.

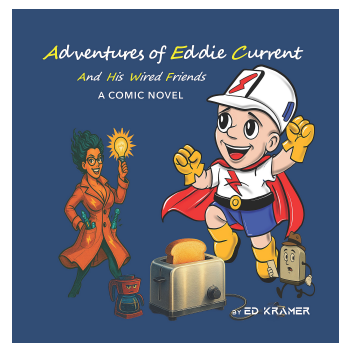
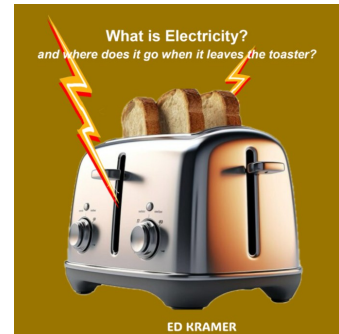


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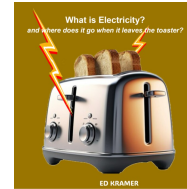
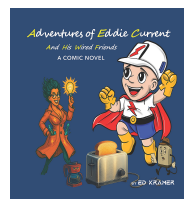


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What is Electricity?
and where does it go when it leaves the toaster?



ED KRAMER

Acclaimed by Friends and Business Associates,,,

“I have known Kramer since the early 1990’s, and have always enjoyed his wit and friendship. This book is very enjoyable reading.”

Bryan H Jones, Manager of Communications, TVA

“Ed always had away of finding humorous ways of looking at challenges and has once again done this with his book.”

William Daniels, Marketing Manager, TVA

“If Red Skelton had sold kilo-watt-hours, he would have written this book.”

Suzanne Lansford, Consulting Engineer

“Failure to read this book before starting an electrical project is like jumping out of an airplane without a parachute.”

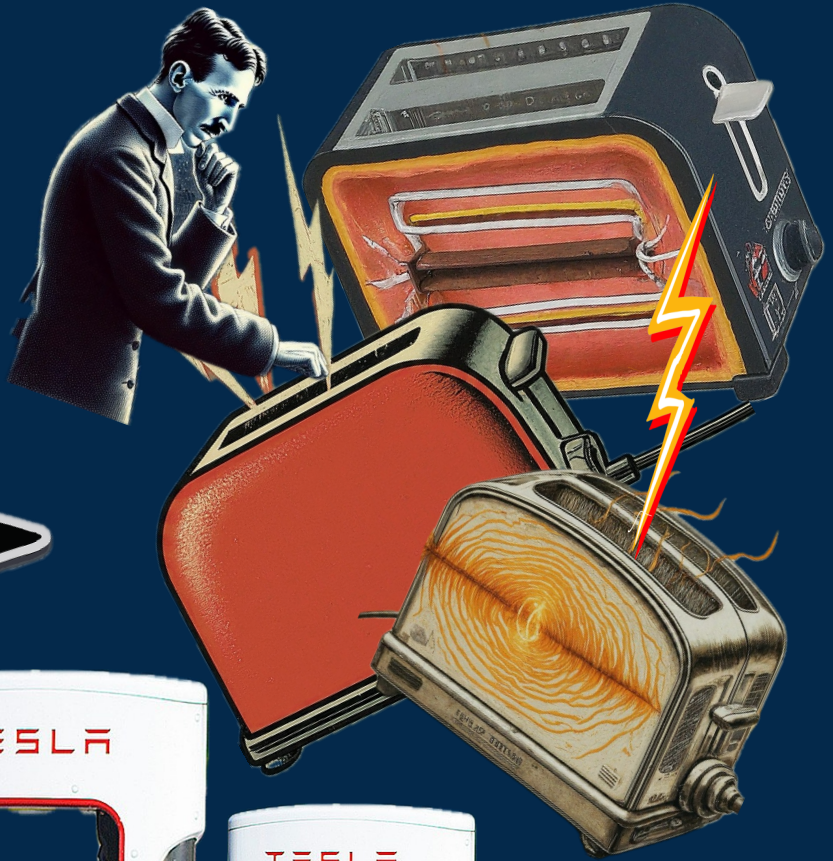
H. G. Davis, Business Owner PhD. SOHK

“This book demonstrates a keen understanding of a complex subject, and he is a great tennis player.”

Bert Martinez, CPA, Electric Distributor Auditor

“ Ed’s hysterical (historical) approach to a complex subject is very enlightening and helps us laymen understand the current approach to Green Energy and the Climate Change.”

Rick Kauffman, Consulting Engineer



TESLA TO TOASTERS TO TESLAS

*THE THEORY OF
ELECTRICITY*
Ed Kramer



THEORIES OF ELECTRICITY

T O E = *Theory Of Electricity* or *Theory Of Everything*

**This book has a great amount authenticated detail,
awesome wit and factual references, a lot of photos, and with portions written
to question the prevailing thoughts commonly found in the press,
taking a deep dive into the absurdity of many common beliefs.**

As a matter of national security — I have to share this total story!

Eddie Current

Lets start by introducing

Eddie Current.

Growing up is a tough situation for electrons.

Eddie Current at an early age of about 8 told his dad, Mr. Kilowatt, that he wanted to be a pirate when he grew up.

Dad was quite surprised 'cause most young electrons at that age wanted to be cowboys or firemen.

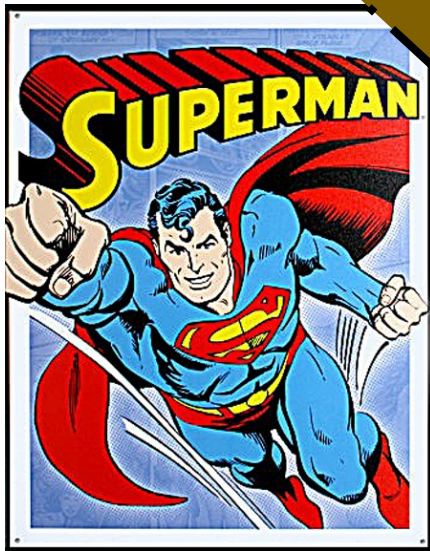
Thank goodness dad did not take him seriously and set a schedule for peg leg surgery and an eye removal!

As he grew up, he found enjoyment in comic books, mostly those involving Super Heroes.



Early childhood toys,,,

Eddie Current's favorite flavor of ice cream is Shock-a-lot



But becoming a **Super Hero** was not his calling. “If I could become one, I would have to have the power of empathy. Empathy allows us to understand and feel the experiences of others, which empowers us to take action and make a positive difference in someone's life.” He imagined that if he all had the power of empathy, he would be able to truly listen to and understand without judgment or bias. He could use his power to break down barriers and create connections between people of different backgrounds, cultures, and beliefs. “We could use it to promote kindness, understanding, and compassion throughout the world.”

This seemed to be too limiting to him, and his skills and ambitions were maturing.

On a trip to Las Vegas he experienced the Sphere of Influence,,, and was inspired. This book is Eddie Current's Sphere of Influence. Eddie Current found his calling and was appointed by the government as Ambassador of Power.

So let's tap into our own superpowers and embrace empathy. Let's use our unique abilities to make a difference in the lives of those around us and work towards creating a more empathetic and connected world. Together, we can make a powerful impact on the world and create a brighter future for all.

If you wanted to become a motivational speaker or writer, I believe that each and every one of us has the potential to make a positive impact on the world, no matter how big or small. And while superpowers may seem like something out of comic books, they actually serve as a great metaphor for the power we all possess within ourselves.



WITH GREAT POWER COMES
GREAT RESPONSIBILITY,,,

*“If I saw someone harassing
some electricity, would that be
an abuse of power.”*

Understanding Electricity is complex and most readers find it hard to follow all the details. But the underlying ideas can be clearer than the details.

Information is an important tool, but with a bit of humor interjected, the reading goes much faster. So, my goal to give you an explanation of some of the tasks that are critically dependent on electricity as well as an explanation of many of our every day encounters with this mystery of this magic.

Where to start? Some folks suspect that energy like money flows in and out of your life, and others suspect that it only flows out. Today, energy and its generation are major conversation points in every discussion when the topic gets to climate control. We often hear the terms green energy, climate change, humans are the main cause of climate change and the creation of green house gasses.

Hopefully, we will demonstrate the inter-relationship of these commonly used terms. Understanding energy in this book is focused exclusively on electricity.

The first book describing electricity was titled *“What Is Electricity,,, And Where Does It Go When It Leaves The Toaster”*.

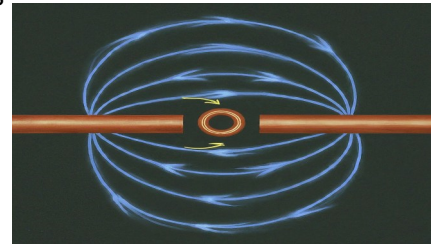
You met **Eddie Current**, *Ambassador of Power*. Eddie awoke, and like with Rip van Winkle, who wakes 30 years later, saw the whole scene of electrical power and its distribution had changed. These chapters help bring us up to speed starting with Tesla, to Toasters, and back to Teslas.

Are you ready for a thorough explanation of the legends and the misinformation that has inundated our lives and our dependency on this miracle?

We are going to squeeze as much as possible out of Eddie Current, so fasten your seat-belt and start flipping the pages.

Lets clear the air. If you are a legalist, then you might think that this is an eddy current.

But it is not! He is actually a multi-skilled fella doing the many tasks we require of him. Sucking up the darkness in our homes, pow-



ering our TVs and music systems and laptops, charging our smart phones, cooking our breakfasts lunches and dinners, powering our EV automobiles, and we are just getting started.



On the following pages, you will discover several of the Eddie Current specialists. Maybe they are doctors. Some are internists, others might specialize in specific fields, like neurosurgery, pulmonary, orthopedics, pediatrics or gastroenterology. Do you think it is the same electrons that turn the wheels of your electric vehicle which also powers your smart phone? Do you think that they all come from the same source? Are

the electrons that come from coal and oil power plants the same as the ones that come from the wind. What about the Eddie Currents that come from solar panels? What about the Eddie Currents that come with the ever-ready batteries you buy in the store, or the lithium batteries you have in your smart phone?

Maybe electrons look like a glass of orange juice, or a bottle of Mountain Dew. I am confident we all have referred to electron flow as turning on the juice!

What is an Eddie Current? He's not a person. He's not an Animal. He doesn't have a gender or a nationality. No one knows what he looks like. What is a kilowatt, or a kilowatt-hour? Can you get a bucket full at the supermarket, or on Amazon? What is an amp, or a volt? Eddie Current will help guide you through these complex subjects.

In the beginning, Nichola Tesla called all electrons before he knew they had their own personalities. Now, you have the opportunity to learn all about them and will meet their leader, Eddie Current.

Maybe he is a Super-Hero, invisible, but doing all the things that we are dependent on. But where do all these Eddie Currents come from? Where are they stored? Where do they live?

Let me think,,, It seems that in almost every discussion about electricity the word 'Ground' comes up. I know, this only comes up when talking about how to hook up an appliance, or wire a house, but it is a common term. Like you need the black wire hooked up to the 'Hot' and the white wire hooked up to the 'Ground.' Or when a fuse is blown, another term is 'short circuit,' which probably means how long does it take the electrons to get to 'Ground.'

Continuing this train of thought, electrical inspectors regularly check if the installation is properly Grounded.

This may be a hard concept to visualize. I'm sure you have probably dug in the garden or planted flowers around the house, and in all your digging, I'll bet you never uncovered an electron!

Does Eddie Current have the ability to travel invisibly or is HE the *FORCE!*

If you hear someone referring to electricity as "Juice," please demonstrate your expertise in the subject and inform them that Juice is a meaningless colloquial slang term. It should not be used in any serious discussion about electricity.

Electricity has to do with the presence and movement of electrons. Electricity is not power, it is a "carrier" of power.

Let's start with a few explanations,,,

Eddie Current often travels into the ground because it is an easy path and there he finds a home where he is welcomed, loved, given food and a place to recharge.

The major reason that all homes have a 'Ground Wire' is to give Eddie Current a two-lane highway to his favorite restaurant.

A sweater I bought was picking up static electricity. So, I returned it and they gave me another one free of charge."

POWER COMPANIES



Energy & Environment,,, Electric Utilities in the U.S.

The day starts with breakfast, usually including toast. Where does Eddie Current go when he leaves the toaster? Lets start this chapter with your power company.

An electric utility is most often a company that operates facilities to generate, transmit, and/or distribute electricity to private, public and industrial consumers. Electric utilities can be involved in one or more of these activities. Some utilities only function in several categories. TVA, for example, only generates and distributes electricity. Others, like electricity marketers, who only buy and sell electricity, can also be considered utilities.

In the United States, there are around **3,000** electric utility companies providing power to more than **140 million customers**.

Too much detail???

More details are coming,,,

*Published by Statista Research Department,
Dec 18, 2023*



Found on the internet: The world is at a turning point where it must switch from fossil fuels to renewable energy sources in order to tackle climate change. Because they are clean, plentiful, and sustainable, renewable energy sources like wind and solar energy are gaining popularity. Yet, one of the problems with renewable energy is the intermittent nature of these sources and their energy storage.

Solar energy systems can only generate electricity during the day, while wind turbines can only do so when there is enough wind. Because of this, it is challenging to rely on these sources for a regular and reliable energy supply.

Thankfully, technology has improved and a variety of renewable storage options are now readily available. We will examine the various forms of renewable energy storage on the following pages.

<https://www.iea.org/commentaries/tripling-renewable-power-capacity-by-2030-is-vital-to-keep-the-100kW-goal-within-reach>

“We need to eliminate global emissions of greenhouse gases by 2050,” philanthropist and technologist Bill Gates wrote in his 2023 annual letter...



*WOW, 27 years and \$7 trillion,,,
feel the sense of urgency yet???*

Lets Take a Look at Your Local Power Company

I hope that the following pages will help shed some light on the complex subject of your power bill. But, if you want to skip these pages, please feel free.

As we look at the charges for the work that Eddie Current does for us across the country, we can see a great variety in charges and rational for providing this service. Some localities have simple, easy-to-understand billing formats, while others desire to complicate the entire process—probably so that they can get away with charging more.

We have selected several states that are typical for their practices and geography. Using the universal measure of quantity, the Kilowatt Hour (KWH), we have demonstrated a range of charges of \$0.136/KWH to \$0.359/KWH (13.6 ¢/KWH to 35.9¢/KWH).

California has unusually high electricity rates because of state mandates for sustainable energy, mostly hydro-electric from Grand Coulee Dam and the Pacific Northwest. There has been serious under-investment in conventional nuclear and fossil fuel electricity in favor of solar and wind subsidies. It is the most expensive electricity in the country.

Lets remind ourselves that Eddie Current is the same guy in every state. The work he does is the same powering lighting, computers, cooking, and TVs. He comes from the same sources of fossil fuels, solar, and wind, but your charges vary greatly.

I hope that the following pages help shed some light on this complex subject.

As we look at the charges for the work that Eddie Current does for us across the country, we can see a great variety in charges and rational for providing this

service. Some localities charge have simple, easy-to-understand billing formats, while others desire to complicate the entire process—probably so that they can get away with charging more.

Here are a few of the highlights of the complex details Included are:

- ~Fuel and Non-fuel charges (?),
- ~Delivery charges and Transition charges (*whatever those are*),
- ~Merchant function charges (*why*),
- ~Peak and Off-Peak charges (*I think I can understand this one*),
- ~Court resolution surcharge (?),
- ~Meter reading (*that's the basic cost of doing business!*),
- ~Regulatory assessment (?),
- ~Franchise fee (*give me a break—this is not a McDonalds*)

Please remember, the universal measure of quantity is the Kilowatt Hour (KWH), (which we have never seen, let alone even measured and we have demonstrated a range of 13.6 ¢ to 35.9 ¢ for the same KWH.



What is the Grid?

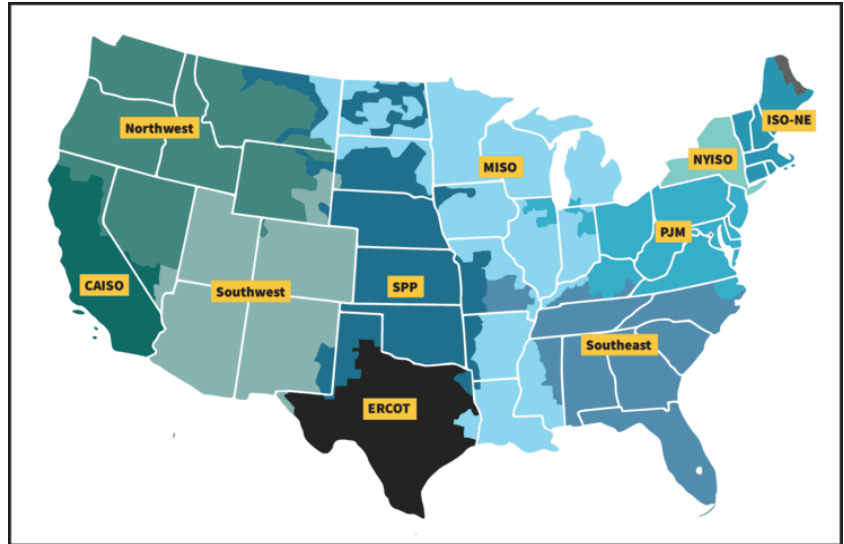
The Grid links many states to insure a more reliable system of supply. Texas is a bit different, and ERCOT was formed. What Is ERCOT???

The North American electric power system is configured with 3 grids, The Eastern Interconnection, The Western Interconnection. The Texas Interconnection, the Electric Reliability Council of Texas (ERCOT) is independent.

In many parts of the country, independent system operators (**ISOs**) and regional transmission organizations (**RTOs**) manage grid operations. **ISOs** grew out of the Federal Energy Regulatory Commission (**FERC**), issued on April 24, 1996. In the orders, the commission suggested the concept of an **ISO** as one way for existing tight power pools to satisfy the requirement of providing non-discriminatory access to transmission. Subsequently, FERC Order No. 2000, issued on Dec. 20, 1999, allowed the voluntary formation of RTOs to administer the transmission grid on a regional basis throughout North America, including Canada.

While major sections of the country operate under more traditional market structures, two-thirds of the nation’s electricity load is served in RTO regions. Among the system operators are California ISO (CAISO), Midcontinent ISO (MISO), ISO-New England (ISO-NE), New York ISO (NYISO), Southwest Power Pool (SPP), PJM Interconnection, and Electric Reliability Council of Texas (ERCOT). Source: FERC (map retrieved Dec. 29, 2023)

—**Aaron Larson** is *POWER’s* executive editor (@POWERmagazine).



Number of electricity providers in the United States in 2022, by ownership type

Characteristic	Number of utilities
Investor owned	166
Political subdivision	83
Wholesale power marketer	37
Community choice aggregator	26

What is your EGO factor now,,, 10???
(Eyes Glazed Over)

A power generation plant in Florida with customer friendly solar panels in the parking lot just grew out of the landscape...

Eddie Current is a big fan of wind turbines.



'Not In My Backyard'

Home values depreciate about 10% when view of wind turbines is less than 5 miles away. The total loss in values across all US houses with a view of windmills adds up to a drop in the US of \$24.5 billion



Adventures of *Eddie Current*

And His Wired Friends

A COMIC NOVEL



Recommendations from Contributors:

“Finally, a book that understands power isn’t just about voltage — it’s about *style*. I laughed, I learned, I recalibrated my surge suppressor.”

— *Mary Louise Watt, Power Theorist & Smart Grid Whisperer*

“A shocking masterpiece! Every page had me tingling. I short circuited twice from the excitement. Five sparks out of five.”

— *Myron Volt, Retired Conductor & Casual Insulator Collector*

“Eddie owes me a new wall socket, but this book? Brilliant. Gave me goosebumps on my grounding wire.”

— *Bob Transformer, Substation Saloon Regular*

“I didn’t *ask* to be included in this book. But now that I’ve read it, I suppose it’s acceptable.”

— *Wendy Watt, Agent of the Renewable Rebellion*

“Watt a ride! Eddie makes electricity less scary than my fourth grade science teacher — and he’s way better dressed.”

— *Andrea Amp, Spunky, a little Impulsive, a Certified Live Wire*

This following few pages were created with a little help from AI (which, you've got to know, is powered by the Power Grid anyway).

*When chickens talk about
climate change, do they
use foul language???*

Introduction:

We Don't See Electricity... But It Sees Us.

Electricity is everywhere. It's in our toasters, our toothbrushes, our televisions — even in that mysterious hum the fridge makes at 3 AM and yet, despite lighting our homes and powering our playlists, it remains mostly invisible... like a polite ghost that tidies up after itself and occasionally zaps your socks.

Scientists have told us that deep inside all this buzzing and blinking are electrons — tiny, energetic charged particles that make it all happen. But let's be honest, photons are a bit shy. You'll never see one smile, shake hands, or explain why your phone manages to die at 12%.

This story will grapple with:

The ethics of grounding your feelings,

* Whether light bulbs are really *sucking darkness*,

* Who is the Grid Team and who are its characters,

* Why do they keep giving me their emotional baggage,

* Whether the Substation Saloon is open 24/7,

* And an electrifying emissary named Eddie Current.

Eddie is your trusty tour conductor on this high-voltage journey through the world of electricity. Along the way, you'll meet his energetic allies and illuminating friends — like Bob Transformer, Breaker Bill, Charlie Capacitor and others, plus a few smart appliances with attitude.

This isn't just a science book. It's a whimsical, wire-tangled exploration of how electricity impacts our daily lives, our technology, and maybe even our moods (especially before coffee). or plug in, power up, and prepare to be shocked, enlightened, and slightly amused. There are NO sharp corners here so, let's flip the switch.

Eddie's ready. Are you? **Warning:** Side effects may include gaining a magnetic personality, unexpected



Power Grid Humor
on the walls in the
Substation Saloon



"If you plant a light bulb in
your garden, does it grow
into a power plant?"



Eddie Current's favorite
flavor of ice cream is
Shock-a-lot

If an ice making plant
has a power failure,
does it go
into liquidation?

"A sweater I bought was
picking up static
electricity. So, I returned
it and They gave me
another one free of
charge."

"People asked me how it feels
when you stick your finger in
an
electrical outlet?
To be honest,
it **Hertz!**"