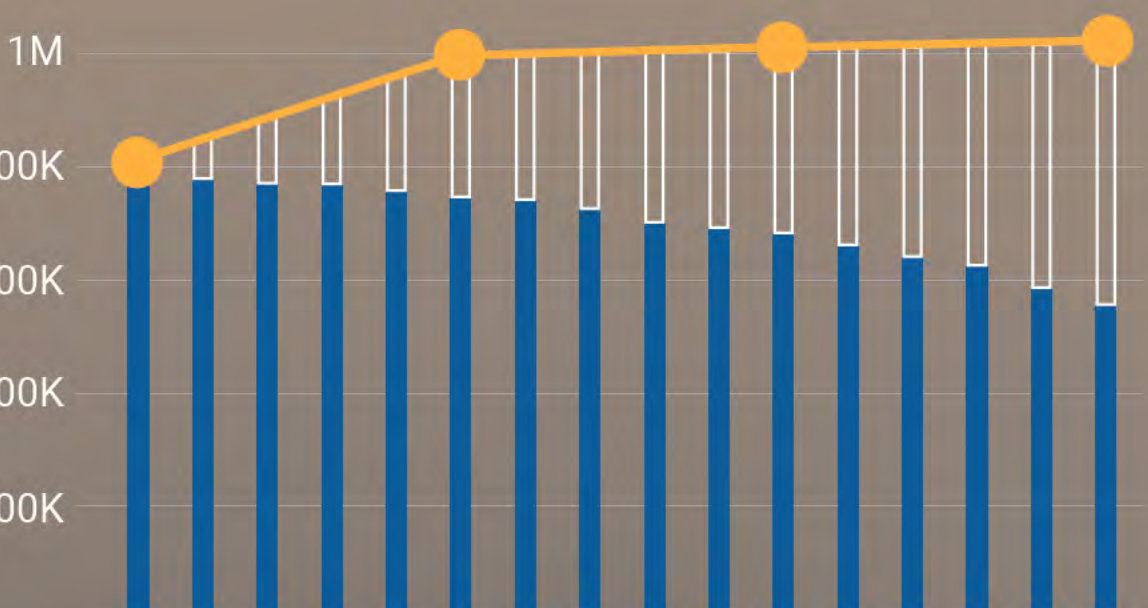


Dark by 2050



Electrical workers build and maintain our power grid. But as the workforce dwindles in the coming decades, it'll struggle to meet the needs of our nation's electrical infrastructure. That could mean a future for the nation that's vastly different from what we know today.



WORKFORCE GAP

To meet the near-future demands for clean energy growth, more than 250,000 new electricians will need to join the field in the next decade.

By 2050 we'll need **462,183 more electricians**

THE ELECTRICAL WORKFORCE IS DECLINING



41+
Average Age of Electricians



Factors leading young people away from skilled electrical work:

- Stigma surrounding blue collar work
- Lack of trade advocacy in high school
- Societal push toward 4-year colleges

As more electricians approach retirement age and exit the field, the number of younger professionals joining isn't sustaining the workforce total.

WHAT COULD HAPPEN WITHOUT MORE ELECTRICIANS

Between 2030 and 2040 Multi-day outages become the norm for the majority of the United States

Blackouts that last **weeks or months**



3 Months

Millions of residents experience outages lasting 3 months or longer

Permanent outages



Electricians have to prioritize life-critical facilities and services and cannot address every outage

THE COSTLY TOLL OF ROLLING BLACKOUTS

Businesses, homes, transportation, health and public safety will all face the devastating impacts of prolonged periods without power.



DARK BY 2050: THE GRID IS GONE

The 2040s could resemble the 1840s

We may see the return of manual kitchens and work tools with kerosene-powered stoves, grills and lamps, and wood-burning and oil- and propane-fueled open fires for warmth.

Fresh and frozen food is limited without **at-home refrigeration**.

Households can only access **dry foods and produce** that's local and in-season.

Large-scale meat, dairy and produce processing **shuts down**.

Traditional retail stores are **relics of the past**.

THE TIME TO ADDRESS THE SKILLS GAP IS NOW

Klein tools partners with the International Brotherhood of Electrical Workers and vocational-technical organizations across the country to help students prepare for a career in electrical and other skilled trades. We have also worked with Project H.O.O.D. to provide tools and resources to underserved communities.



Project **H.O.O.D.**
Helping Others Obtain Destiny



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