

Over a century of INNOVATION focused  
on improving grid RELIABILITY



## **S&C's Vision:**

Empower People to  
Transform the Grid

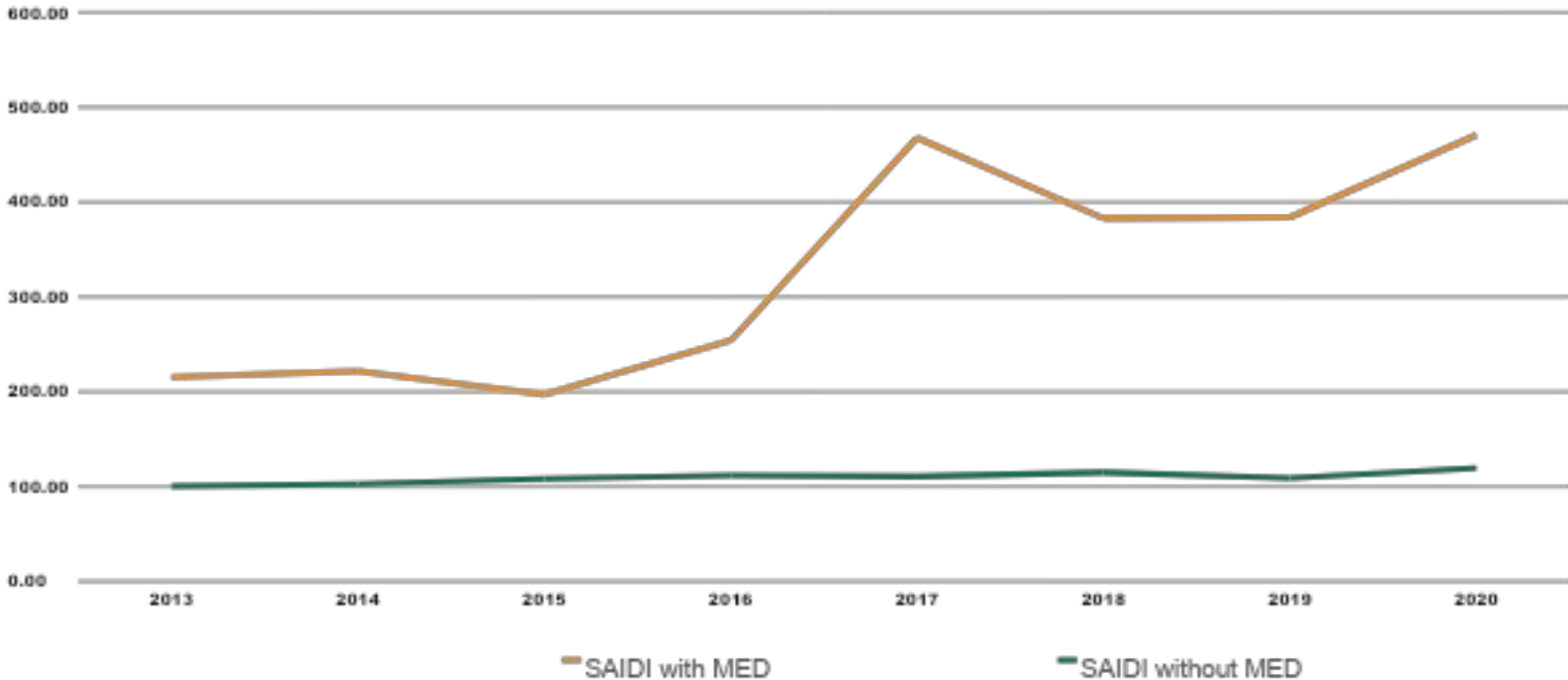
## **Objectives:**

- Reduce the duration of power outages from hours to seconds — or to no outage at all
- Design systems to withstand the impacts of major weather events

**S&C solutions save 2.9B  
customer-outage minutes each  
year**



# Reliability is under control. Resiliency is not!



# The Grid is changing.

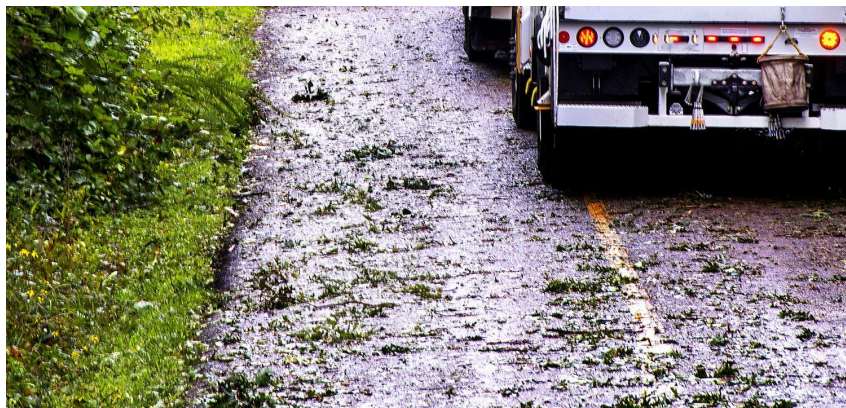


Cyber attacks



**Changing demand patterns**

Electrification



Extreme weather



**Changing demand patterns**

Increased DERs on the system

# Consequences of changes

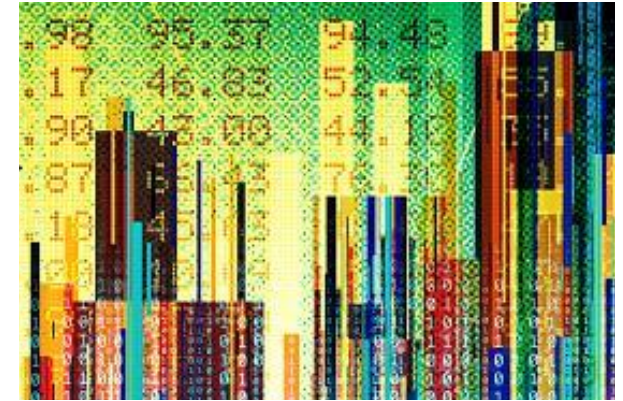
## Long-term power outages have outsized societal impacts



- Lack of ability to maintain mission critical hospital operations with traditional backup generation
- Ability to maintain facilities for refrigerated medicines



- Preserving grocery stores and preventing food deserts
- Low-income neighborhoods may not have options to evacuate due to limited resources



- Living in a more digitized economy
- Localized pollution from traditional diesel backup generators

# If we can solve this problem...



**1.** Policy makers and utilities will be able to better target grid upgrades



**2.** Third party market players will know where to focus on providing solutions



**3.** Government planners will be able to develop disaster response plans

Regarding Critical Infrastructure,  
Equity and Resilience, to achieve  
Chicago's Carbon & Equity goals,  
a critical obstacle to overcome is...

the lack of a collaborative process to  
**to prioritize resiliency.**

