



Power Delivery Intelligence Initiative

POWER SYSTEM RELIABILITY AND LONGEVITY

Essential to where we live, work and play.

What kind of installation can provide the highest reliability for power consumers ?

What matters most ? First costs or life-cycle costs ?

How does public opinion impact the power industry ?

What is the real cost of power outages ?

Overhead or Underground ?

*PDI² is working to answer these questions
...let's toss around some ideas.*

Who is PDi²?

Power Delivery Intelligence Initiative (PDi²) is a recently-formed 501(c)(6), not-for-profit professional association whose aim is to collect and use data to provide an objective means to evaluate power infrastructure investments from the perspective of life-cycle costs to determine which power delivery solutions – overhead or underground – to employ.

WHAT ARE OUR LONG-TERM OBJECTIVES?

- Help utilities justify investment decisions based on data-driven life-cycle cost analysis
- Educate stakeholders on all technology and construction options to determine the most viable, reliable and cost-effective solution for the installation of transmission and distribution systems when evaluated via life-cycle cost analysis
- Convey qualitative and quantitative value of underground to all stakeholders
- Develop common methods by which cable systems can be evaluated from both a utility and public value perspective
- Communicate the methodology to utilities, individual state utility commissions and other influencers
- Actively promote developed models as an enabler for grid extension in North America with all members of the value chain – including utilities
- Influence more actively as part of the North American power industry

IT'S ALL ABOUT THE DATA

PDi² strongly believes in the power of data to help make decisions about the right kind of power installation. Our data collection projects will be based on factors including:

- Comparisons of overall system reliability (OH and UG)
- Project timelines
- Aesthetics and real estate value
- Physical security

THE ECONOMIC IMPACT OF POWER OUTAGES

According to the US Department of Energy, weather-related outages alone cost **\$25 billion** to **\$70 billion** per year.

A significant amount of the cost is measured in business and business transactional losses. *Crain's Detroit Business* recently compiled some staggering data¹ after a major day-long wind event that resulted in 1,190,000 business and residential consumers without power.

Average costs per minute for businesses across the U.S. due to power outages:

- \$241** – LOST ATM fees
- \$1,483** – LOST airline reservations
- \$1,883** – LOST in online shopping
- +\$40,000** – LOST due to inability to process credit card transactions



¹Sources: Eaton Power Outage Annual Report
DTE Energy Co, Gartner Inc.
US Department of Energy

JOIN OUR GROWING GROUP OF EXPERTS

Board:



Partner:



Associate:



PDi² welcomes new member organizations. Our focus is to become a working group that actively engages with all levels of membership and outside resources to develop data models that support our mission – and then communicates the results to help the industry make objective decisions about construction options for power infrastructure.

Please visit www.pdi2.org to learn more about our organization and our varying levels of membership and participation.

*Throw some ideas our way.
We look forward to a game of catch.*



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Power Delivery Intelligence Initiative, Inc.
7048 Leonard Street, Coopersville, MI 49404
Phone: 616-997-6235
Fax: 616-997-6236