



Edison Electric
INSTITUTE

Smarter Energy Infrastructure

NASEO Midwest Regional Meeting

May 9, 2018



CONTRIBUTES
\$880 billion

ANNUALLY TO
U.S. GDP OR
5 percent
OF TOTAL GDP

SUPPORTS

7 million+
JOBS ACROSS
THE UNITED
STATES



INVESTS

\$100 billion+

PER YEAR TO BUILD A SMARTER,
CLEANER, AND MORE RESILIENT
ENERGY INFRASTRUCTURE

2018 Industry Priorities



INFRASTRUCTURE



SMART COMMUNITIES



GRID SECURITY & RESILIENCE



ELECTRIFICATION

Smarter Energy Infrastructure

DRIVERS



1

**Customer
Wants &
Needs**

2

**Environmental
Goals**

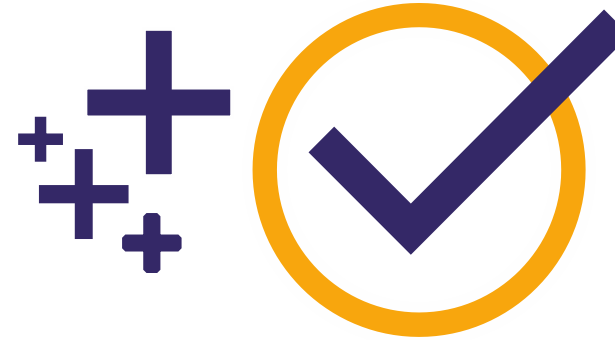
3

**Growth in
Distributed
Energy Resources**

4

**New
Technologies**

BENEFITS



1

**Enhanced
Reliability**

2

**Increased
Resiliency**

3

**Reduced Carbon
Emissions**

4

**Empowered
Customers**

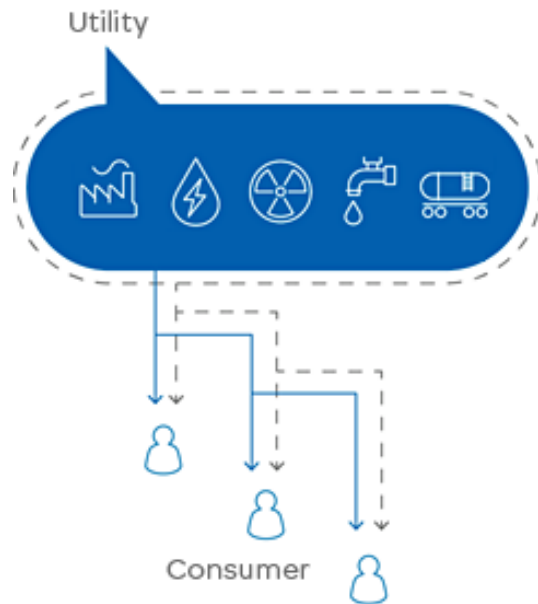
5

**Flexible & Responsive
Energy Grid Platform**

Evolving Energy Grid

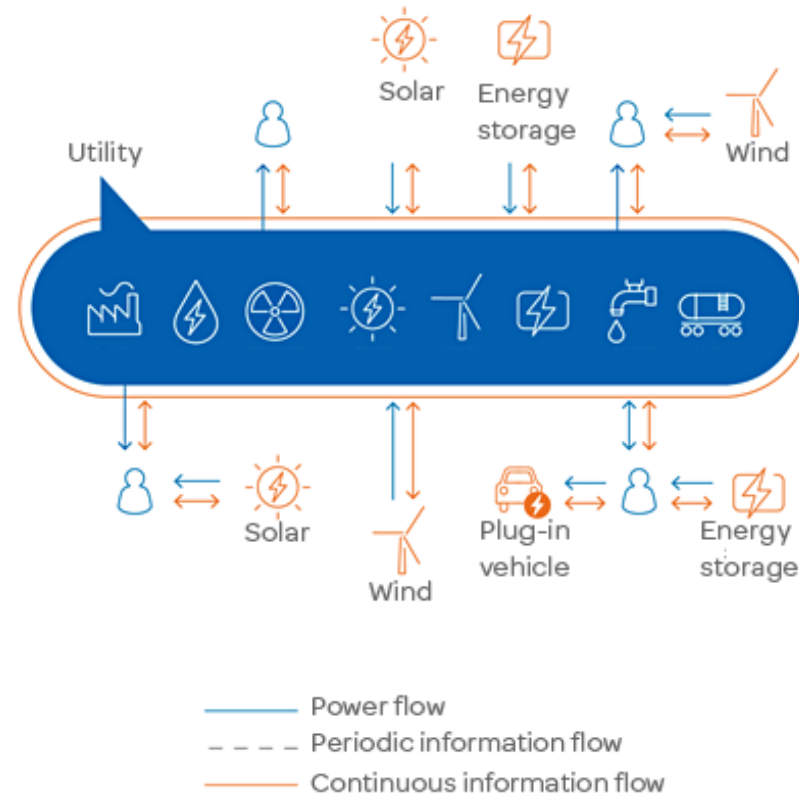
TRADITIONAL GRID

One-way power flow from generator to customer



SMART GRID

Two-way power flow with multiple energy stakeholders that can produce and consume electricity

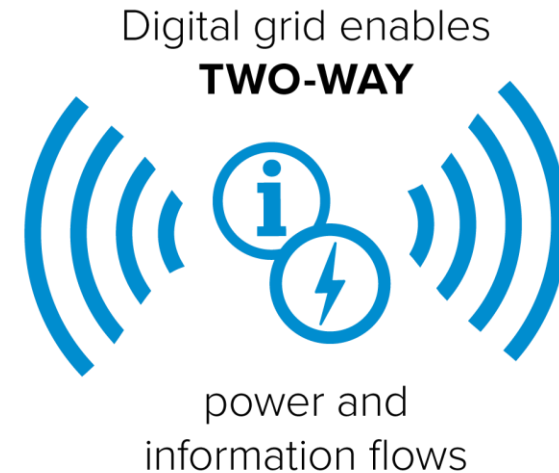


We Are Building the Smarter Energy Infrastructure Customers Want

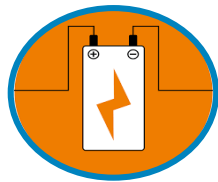


SMART METERS
give more than half
of all U.S. households
more control and flexibility

Electric companies
INVESTED
\$32B
in the
distribution grid
in 2016



Smart Energy Infrastructure



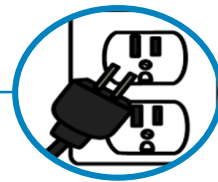
ENERGY
STORAGE



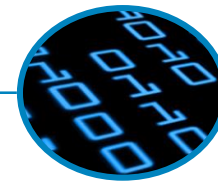
MICROGRIDS



SMART
COMMUNITIES



ELECTRIFICATION



DATA ANALYTICS



DISTRIBUTION
SECURITY & DATA
SECURITY

Electric Companies Are Leading On Clean Energy



Changing U.S. Energy Mix

>1/3
ZERO-EMISSIONS



Increasing Investments

\$100 Billion+
PER YEAR IN SMARTER
ENERGY INFRASTRUCTURE



Providing

virtually all
GEOTHERMAL, HYDROPOWER,
AND WIND ENERGY



Expanding Access to EVs

20,000+
CHARGING STATIONS
NATIONWIDE



Providing

69%
SOLAR ENERGY



Using Energy Storage

90%+
NATIONWIDE

Cutting Emissions

CO₂ ↓ 27%
BELOW 2005 LEVELS
AS OF 2017

NO_x ↓ 84%
BETWEEN
1990–2017

SO₂ ↓ 92%
BETWEEN
1990–2017

The Edison Electric Institute (EEI) is the association that represents all U.S. investor-owned electric companies. Our members provide electricity for 220 million Americans, operate in all 50 states and the District of Columbia, and directly employ more than 500,000 workers.

With \$100 billion in annual capital expenditures, the electric power industry is responsible for millions of additional jobs. Reliable, affordable, and sustainable electricity powers the economy and enhances the lives of all Americans.

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