



New England Electricity Restructuring Roundtable

ComEd[®]
An Exelon Company

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OVERVIEW

- **ComEd and Our Roots in Smart Grid**
- **Integrating DER: A Platform-Based Business Model View**
- **The Next Steps:**
 - **Next Generation Energy Plan and Rate Design**
 - **Community of the Future Project**
 - **Smart Cities Projects**



ComEd At A Glance

Our Customers:

- 3.85 million customers in northern Illinois, including the City of Chicago

Our Company:

- One of six utilities owned by Exelon
- 6,800 Employees
- Service Territory: 11,428 square miles

Our Grid:

- Peak Load: 23,753 MW
- 526,000 distribution transformers
- 5,502 circuit miles of transmission
- Including 2nd largest underground network in the U.S
- Over 2 million smart meters installed with completion targeted 2018



Illinois' Smart Grid Law: The Foundation

On October 27, 2011, the Illinois General Assembly enacted the Energy Infrastructure Modernization Act (EIMA), setting in motion a \$2.6 billion investment by ComEd to strengthen and modernize the state's electric grid.

- The Investment Plan has two primary components:

Reliability-Related
Investments—
5 year program,
\$1.3B

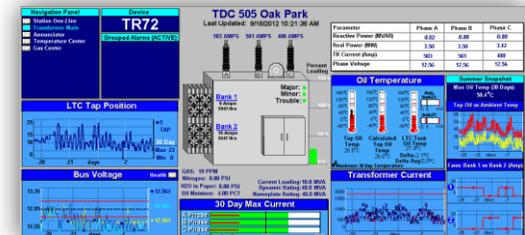
- Underground cable – mainline, URD, manholes
- Ridgeland 69kV cable replacement
- Training centers
- Wood pole inspection, reinforcement/replacement
- Storm hardening – undergrounding, spacer cable

Smart Grid-Related
Investments –
10 year program,
\$1.3B

- Distribution Automation
- Smart Substations
- Smart Meters

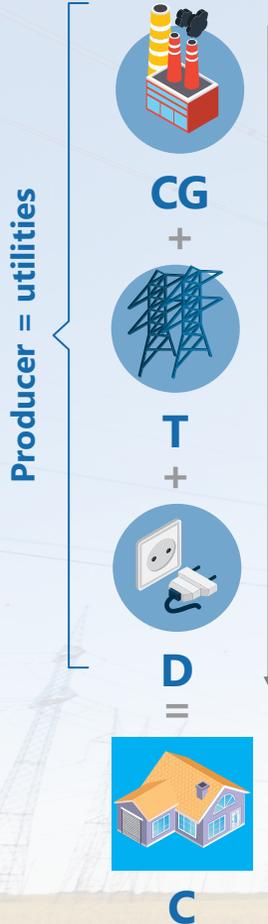
The legislation also established:

- Energy Foundry
- Test Bed

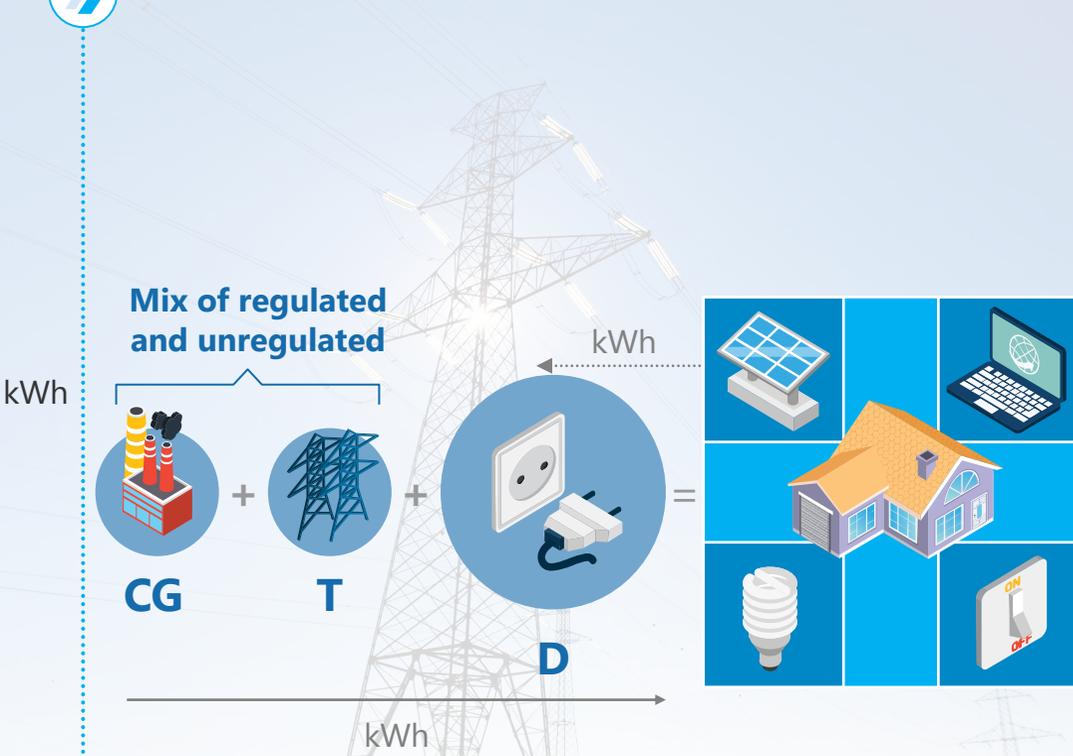


The utility value chain is already beginning to evolve... but what will the future look like?

The electricity system of the past



The electricity system of today

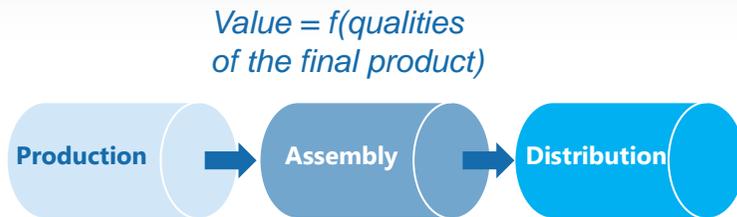


The electricity system of the future



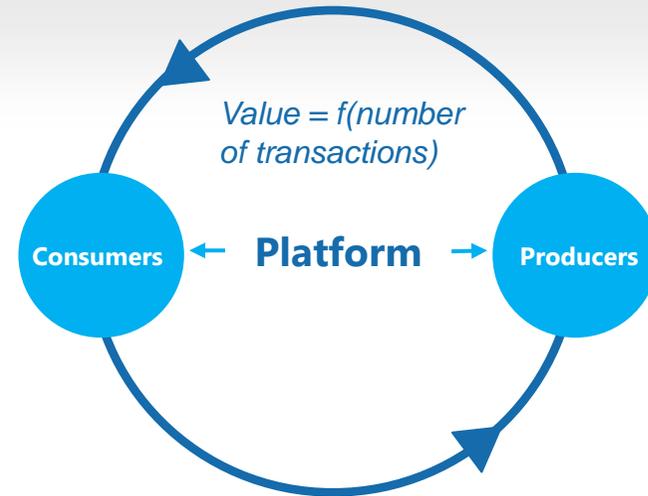
Other industries have evolved by turning to the “platform business model”

Pipe Model – focus on the product



- Companies **produce, assemble, and distribute goods** and services to end customers through a process
- Value is created through the **optimization of this process**

Platform Model – focus on the interaction



- Companies **enable interactions** between both producers and consumers, with parties potentially shifting between roles
- **Value is generated** through creation, curation, and consumption of content
- 3 types of exchanges: **information, goods/services, currency**

Platform for Utility of the Future



Next Generation Energy Plan



Nearly doubling energy efficiency programs, yielding \$4 billion in energy savings



Enhance grid security and reliability



Provide \$1 billion of low-income assistance



Support at risk nuclear plants through a Zero Emission Standard



Jumpstart solar with more than \$140 million annually for new solar development



Reduce fixed charges by 50%, giving customers more control



Strengthen and expand Renewable Portfolio Standard



Create new clean energy jobs through new programs

The Community of the Future

- ✓ A place where ComEd and a local community collaborate to create a “smart community”
- ✓ We envision a community where the energy system – and the many uses of its digital network – is localized and human-centered, with power that is ultra-reliable and can be generated and controlled at the community level.
- ✓ The Community of the Future promotes piloting customer-focused initiatives that:
 - Create a smarter, more secure, more reliable, more resilient and affordable grid by protecting and reducing outage duration for critical infrastructure in the event of catastrophic incidents.
 - Connect residents to smarter technology that enable them to make an impact on their energy usage, cost, and footprint.
 - Enhance livability, workability and sustainability.

