





CARILEC

An Association of Electric Utilities



CARILEC Services

- ✓ Training & Development
- ✓ Networking and Knowledge Sharing: Conferences & CAREC
- **✓ Technical Studies and Surveys**
- ✓ Disaster Restoration Coordination (CDAP)
- Advocacy



CDAP: Post Irma & Maria

- Anguilla: 11 line crews totaling 55 linemen from 10 utilities to assist ANGLEC.
- British Virgin Islands: 13 line crews totaling 68 linemen from 9 utilities to assist BVIEC.

CDAP: Post Irma & Maria

- Dominica: CARILEC deployed 8 line crews totaling 45 linemen, 1 transformer technician, 1 Hydraulic Tool Technician, and 1 Mechanic from 8 utilities to assist DOMLEC.
- Total: 171 from 14 Electric Utilities

CARILEC: Current Vision

To be the Premier Association of Electric Utilities and Industry partners; facilitating the development of world class electric energy services for all peoples of the Caribbean

Renewed Vision

To be the Premier Association of Energy Service
Providers and their partners, facilitating the
development of world class sustainable electric
energy solutions for all peoples of the Caribbean
Region

Renewed Mission

CARILEC will enhance the effectiveness of its members by providing industry related services, creating regular networking, training and knowledge sharing opportunities; supporting mutual assistance programs and accelerating the Caribbean Region's energy sector transition, through innovation and advocacy

CARILEC: Current Values

Perseverance, Professional Standards, High Ethical Standards, Socially Responsible

Renewed Values

Collaboration

Innovation & Agility

High Ethical & Professional Standards

Social & Environmental Responsibility





Resilience through Collaboration

- > CARILEC
- > CANTO
- > CARICOM
- > CDEMA
- > Association of Caribbean States
- > CHTA



CANTO and CARILEC MOU Supports Sustainable Energy and ICT Goals of the Caribbean

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Dr. Cletus, Bertin (CARILEC) Teresa Wankin (CANTO)

Port of Spain, 25th November, 2017 – From May 2017, discussions have been ongoing between CARILEC and CANTO in the formulation of a Memorandum of Understanding (MOU), which included, inter alia, agreement on the joint promotion of the current CARILEC Smart Grid Symposium in Trinidad, October 23-26, 2017.

The MOU articulates the agreement between the parties to explore and implement initiatives focused on the following areas of common interest and priorities in the energy and information and communications technology (ICT) sectors: Training and Capacity Building; Conferences and Networking; Smart

Grid Infrastructure and Applications, Business Development and Consulting opportunities.





Association of Caribbean States Asociación de Estados del Caribe Association des Etats de la Caraïbe

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Digitalization & Energy



INTERNATIONAL ENERGY AGENCY

The International Energy Agency (IEA), an autonomous agency, was established in November 1974. Its primary mandate was – and is – two-fold: to promote energy security amongst its member countries through collective response to physical disruptions in oil supply, and provide authoritative research and analysis on ways to ensure reliable, affordable and clean energy for its 29 member countries and beyond. The IEA carries out a comprehensive programme of energy co-operation among its member countries, each of which is obliged to hold oil stocks equivalent to 90 days of its net imports. The Agency's aims include the following objectives:

- Secure member countries' access to reliable and ample supplies of all forms of energy; in particular, through maintaining effective emergency response capabilities in case of oil supply disruptions.
- Promote sustainable energy policies that spur economic growth and environmental protection in a global context – particularly in terms of reducing greenhouse-gas emissions that contribute to climate change.
 - Improve transparency of international markets through collection and analysis of energy data.
 - Support global collaboration on energy technology to secure future energy supplies and mitigate their environmental impact, including through improved energy efficiency and development and deployment of low-carbon technologies.
 - Find solutions to global energy challenges through engagement and dialogue with non-member countries, industry, international organisations and other stakeholders.

IEA member countries:

International Energy Agency Secure Sustainable

Together

Australia

Austria

Belgium

Canada

Czech Republic

Denmark

Estonia

Finland

France Germany

Greece

Hungary

Italy

Japan

Korea Luxembourg

Netherlands

New Zealand Norway

Poland

Clausk Republ

Slovak Republic

Spain

Sweden Switzerland

Turkey

United Kingdom United States

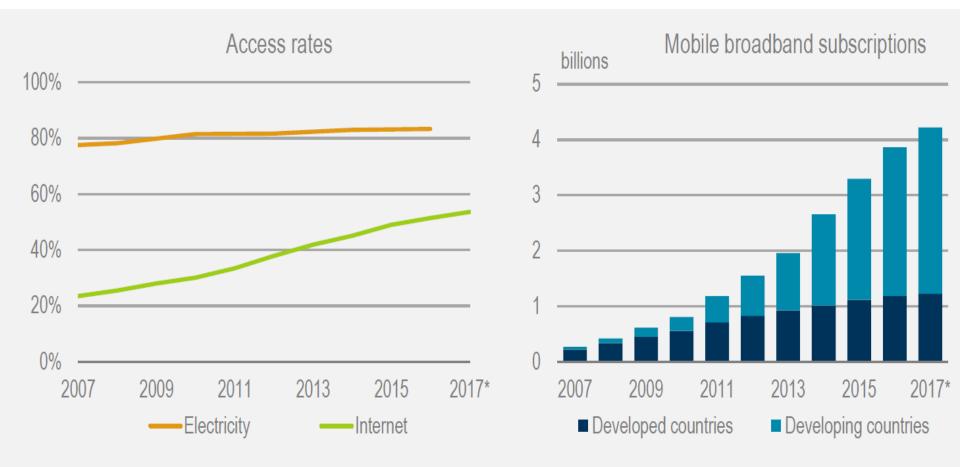
The European Commission also participates in the work of the IEA.

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International Energy Agency Website: www.iea.org

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Global Trends in Connectivity

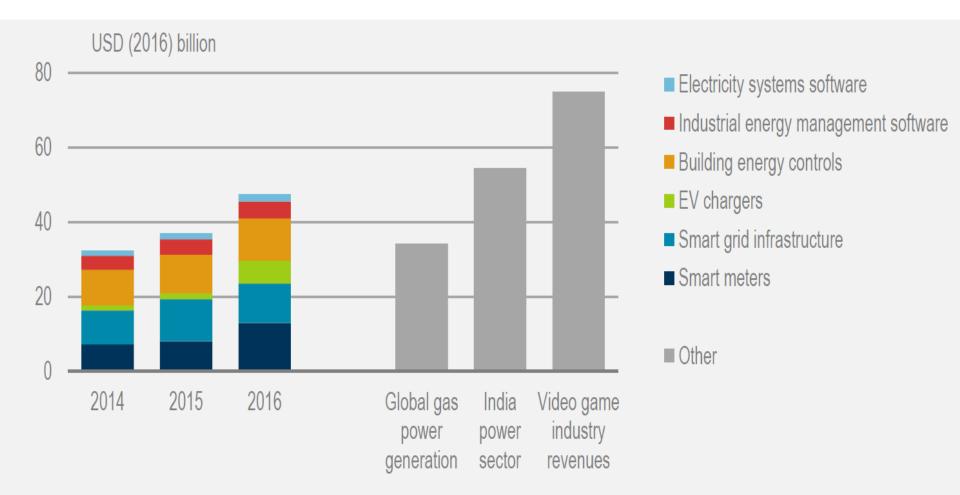


Key message: Connectivity is increasing rapidly, particularly in the developing world.

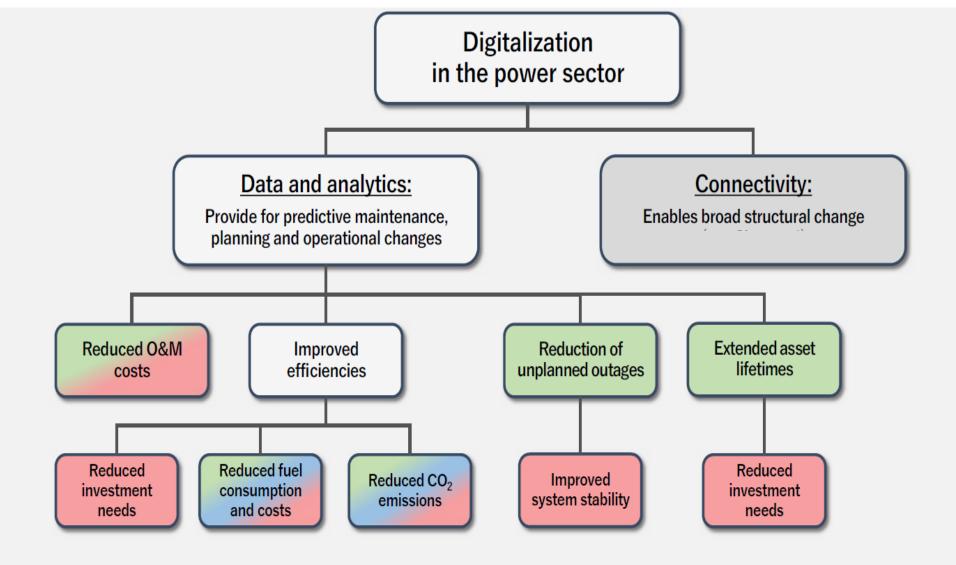
Notes: * denotes estimate for 2017; "Internet access" is defined as households with internet access at home; developed/developing country classifications are based on the UN M49.

Sources: ITU (2017), ICT Facts and Figures 2017; IEA (2017), Energy Access Outlook: From Poverty to Prosperity.

Investment in Digital Electricity Infrastructure & Software



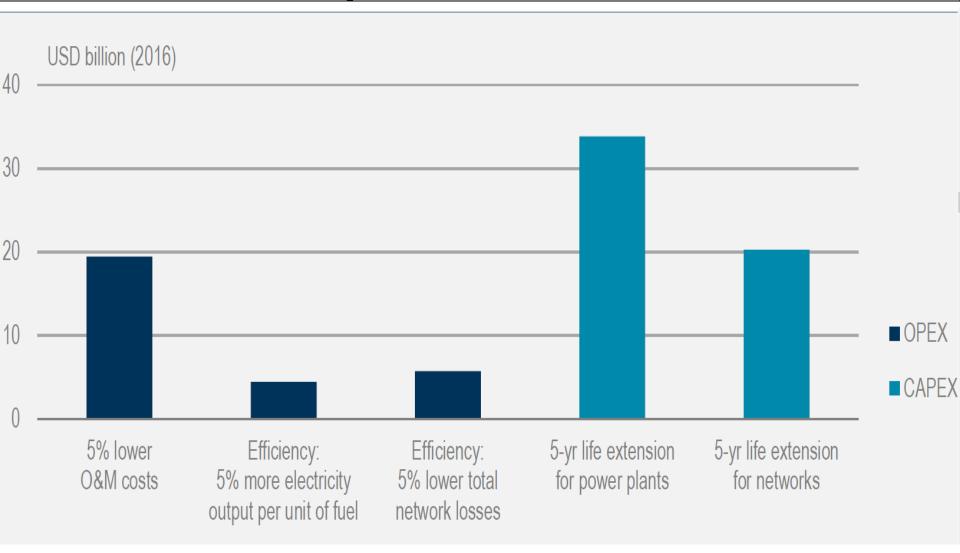
Key message: Investment in digital electricity infrastructure and software grew over 20% annually between 2014 and 2016, overtaking global investment in gas-fired power generation.



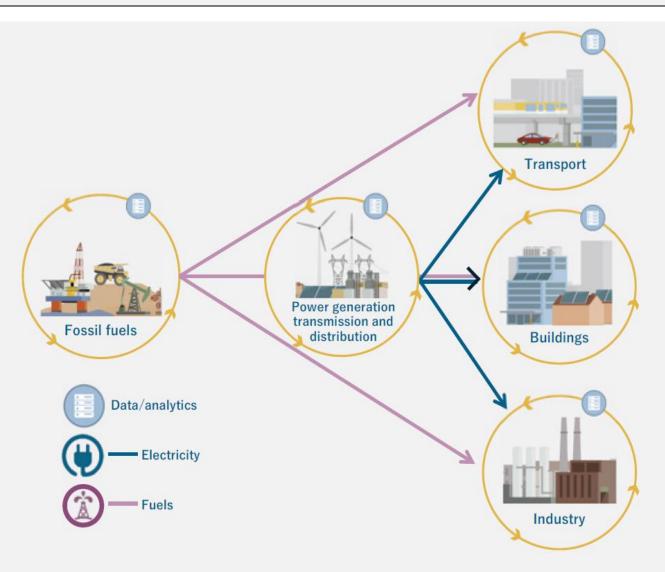
Key message: Digitalization in the power sector has the potential to bring benefits to the owners of power sector assets, the wider electricity system, consumers and the environment.

Notes: green: financial benefits for asset owner; red: system benefits, consumer benefits; blue: global environmental benefits; CO_2 = carbon dioxide.

Potential Worldwide Cost Savings from Enhanced Digitalization in Power Plants & Electricity Networks: 2016-2040

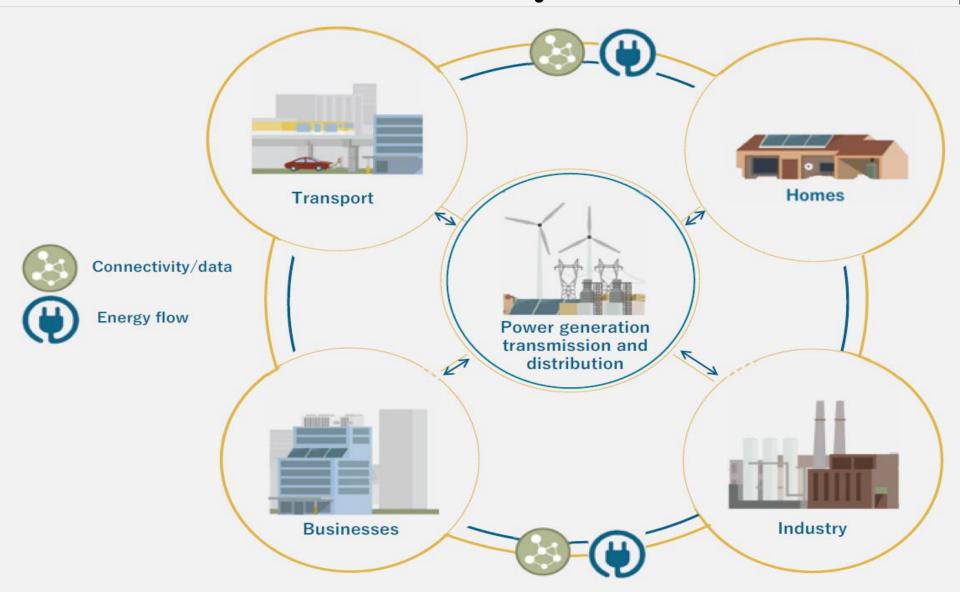


Traditional Structure of Electricity Sector



Key message: Data and analytics can improve performance and enable cost savings, but, without connectivity, do not fundamentally change the way the electricity sector functions.

The Role of Connectivity in Reshaping the Electricity Sector

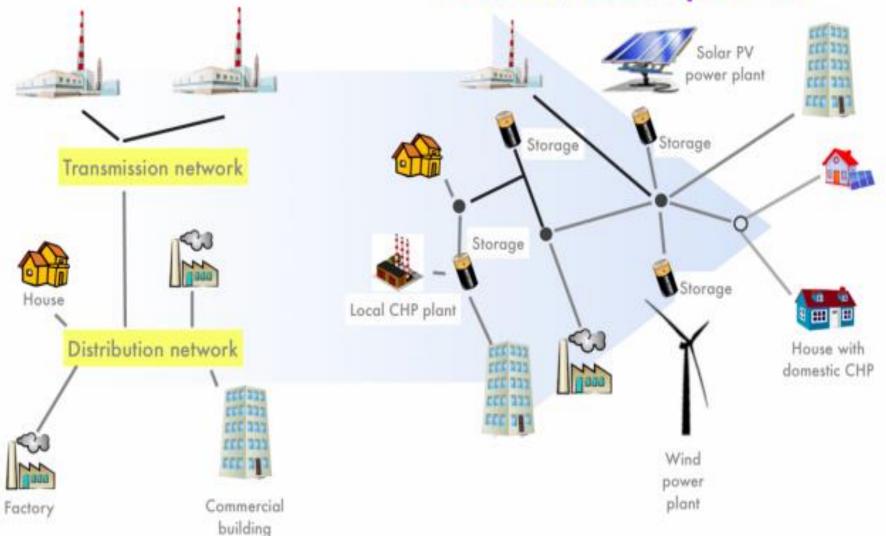


Yesterday

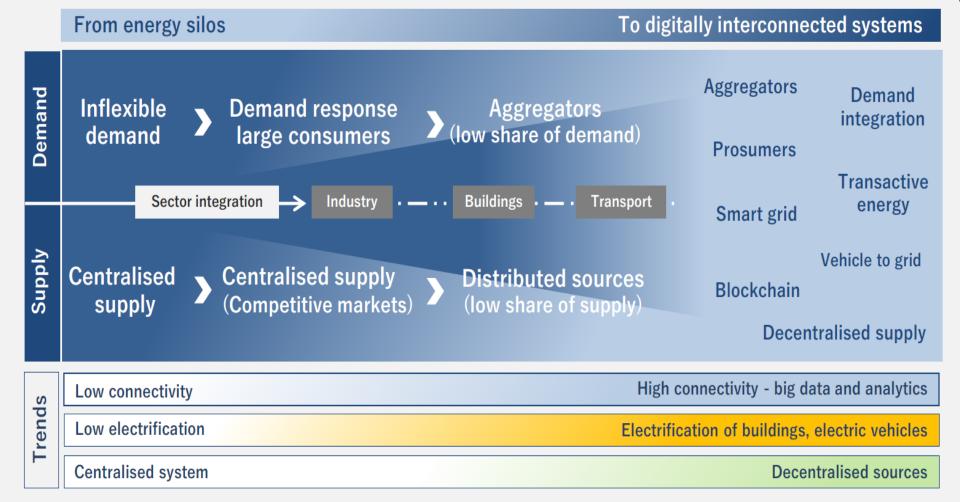
Tomorrow

Centralized Power

Clean, local power



Steps in Digital Transformation of the Electricity Sector



Key message: The deployment of digital technologies is creating a more interconnected and responsive electricity system, with the potential to help increase flexibility, efficiency and reliability.

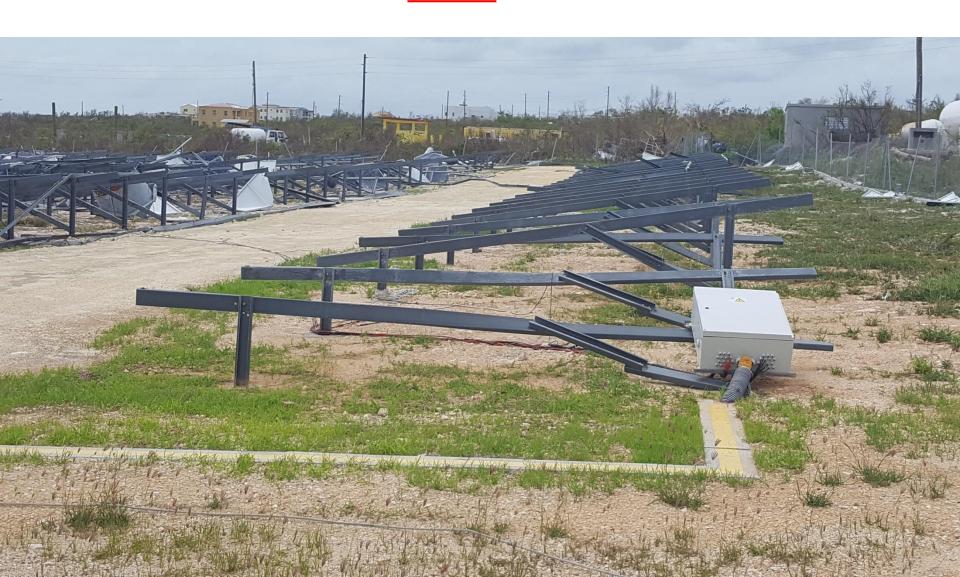
Anguilla Solar Farm

Before



Anguilla Solar Farm

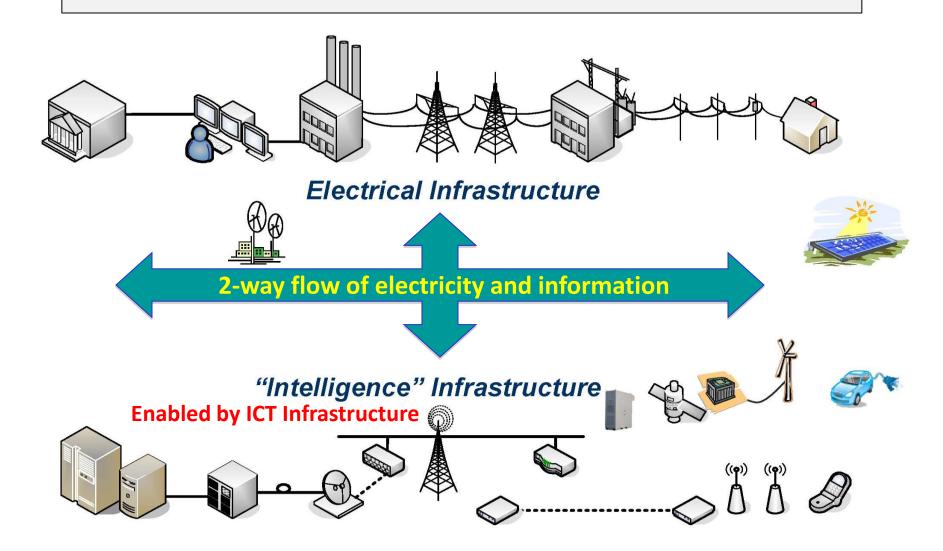
After







Smart Grid: The "Energy Internet"



Smart Grid

- an automated, widely distributed energy delivery network characterized by a two-way flow of electricity and information, capable of monitoring and responding to changes in everything from power plants to customer preferences to individual appliances.
- the electricity delivery system (from point of generation to point of consumption) integrated with communications and information technology for enhanced grid operations, customer services, and environmental benefits

(Funding for Smart GriFunding Grid Activities, US Department of Energy, 2009, link: www.gefa.org/Modules/ShowDocument.aspx?documentid=925)

Smart Grid

Improve electrical power generation and distribution system

- Integration of electric infrastructure and ICT infrastructure
- More efficient & better management of power infrastructure

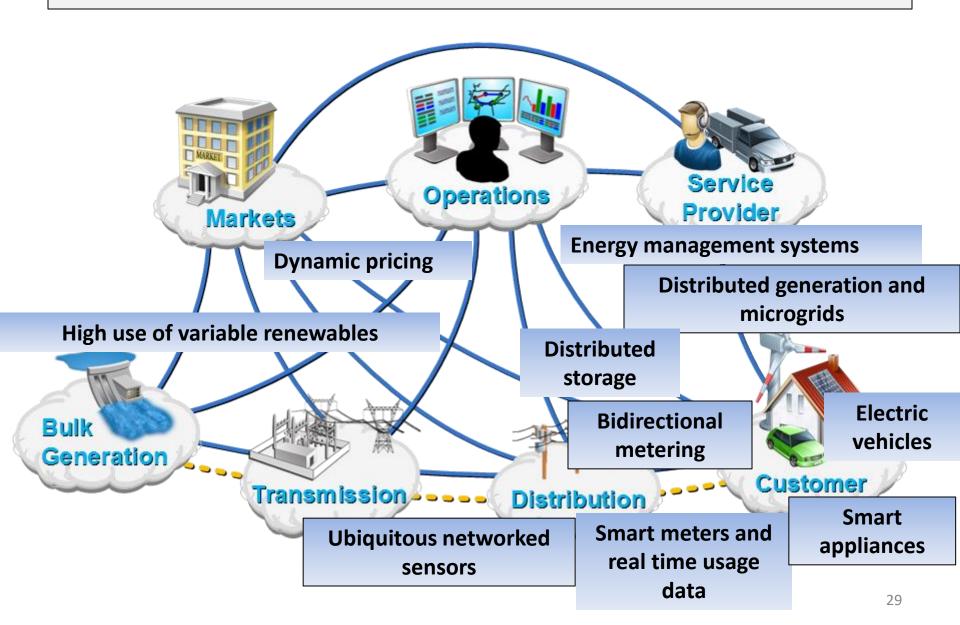
Increase use of renewable energy sources

- Wind, solar generation, power storage
- Integration of distributed energy sources into power infrastructure

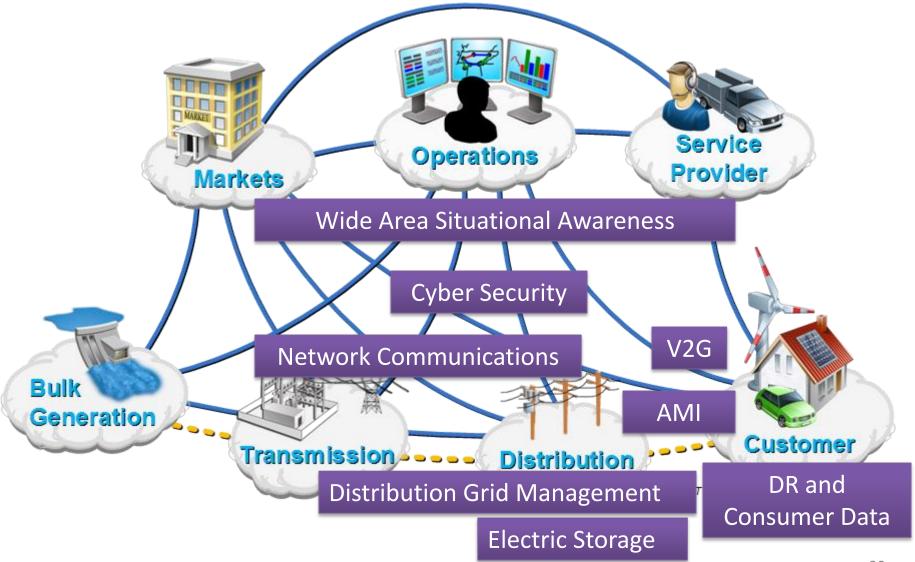
Better management of energy usage

- Use of smart meters and Demand Response systems to reduce and balance energy usage
- Enable use of plug-in electrical vehicles

What Will the Smart Grid Look Like?



Smart Grid: Energy & ICT



STRATEGIC OBJECTIVES

2018 to 2022

- 1. Re-position CARILEC as the premier provider of energy solutions in the Caribbean region
- 2. Revise CARILEC business model for greater sustainability, resilience and impact
- 3. Restructure Secretariat and build capacity at institutional and individual levels

STRATEGIC OBJECTIVES

2018 to 2022

- 4. Become the leading advocate and partner for energy solutions and resilience in the region
- 5. Act as a catalyst for the adoption of green and innovative business models for energy solution providers
- 6. Enhance networking, business opportunities and engagements for our members

