

COLLABORATIVE UTILITY – CITY INNOVATIONS FOR A DISTRIBUTED ENERGY FUTURE

Introduction

Jennifer James

Smart City Solutions, Black & Veatch

JamesJA@bv.com

Follow us on twitter @Black_Veatch, @BVSII, @nexusjen



100

offices



\$3.0B

2014 revenue

Founded

1915

projects on

6



continents

AND

MARKETS

10,000

professionals

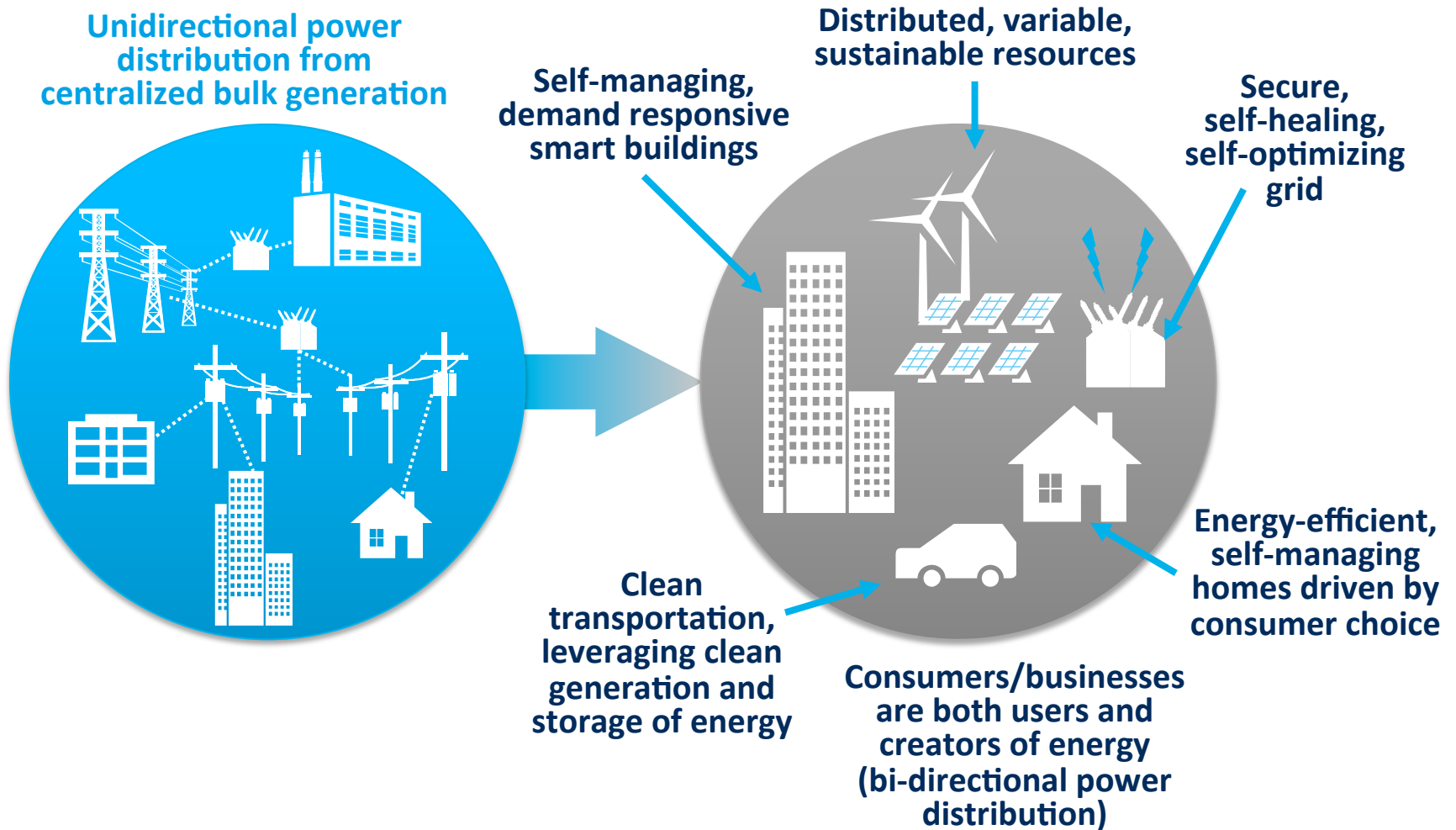


Energy Telecom Water

7,000

active projects
WORLDWIDE

ENERGY INDUSTRY TRANSFORMATION



CITIES ARE PLAYING A CENTRAL ROLE

- **Cities:**
 - Account for 70% of global energy use
 - Will hold 66% of the world's population by 2050
 - Are at the forefront of resilience concerns
 - Are making bold renewable energy, energy efficiency and GHG reduction commitments (C40 Cities, Compact of Mayors, ICLEI)
 - *Represent the voice of the community*



CONSUMERS ARE INCREASINGLY IN THE DRIVERS SEAT

- **Consumers:**
 - Are becoming energy producers as well as consumers
 - Expect flexibility and choice in energy options and service delivery
 - Are determining rate of technology adoption (EV, Rooftop PV, IoT)
 - Will dictate success or failure of energy efficiency and demand response programs



KEY THEMES

- Disruptive technologies are providing new ways to meet consumer needs and policy objectives
- Vast number of energy options creates opportunities but adds complexity
- Cities and utilities need to innovate and adapt
- Customer centricity and stakeholder engagement are key
- If not coordinated, efforts can be at cross purposes

