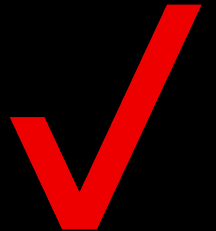


Welcome

TJ Fox

Senior Vice President & President
Industrial IoT & Vehicles

August 17, 2022



Verizon is responsible.

2035

Verizon expects to achieve **net zero operational emissions** by 2035 and has issued **\$4B** in green bonds since 2019 primarily to fund renewable energy investments.

EVs

We are planning to **electrify** much of our customer-facing **fleet** through suitable light-duty EVs.

Energy advancement

Verizon is helping **enable the digitization required for the energy transition** with network, compute, platforms and applications.



Image courtesy of Gensler

citizen verizon ✓



Grid Infrastructure today.

Lacks unification



Dated technology may be slow



Costly to maintain



Labor intensive



Cybersecurity concerns

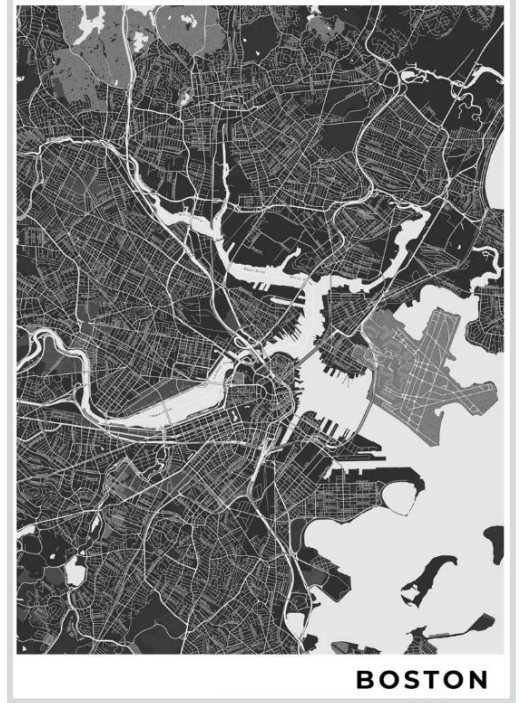


Image courtesy of Freepik.com



Massive demand for reliable energy requires intelligent infrastructure management.



Safety



Autonomous vehicles



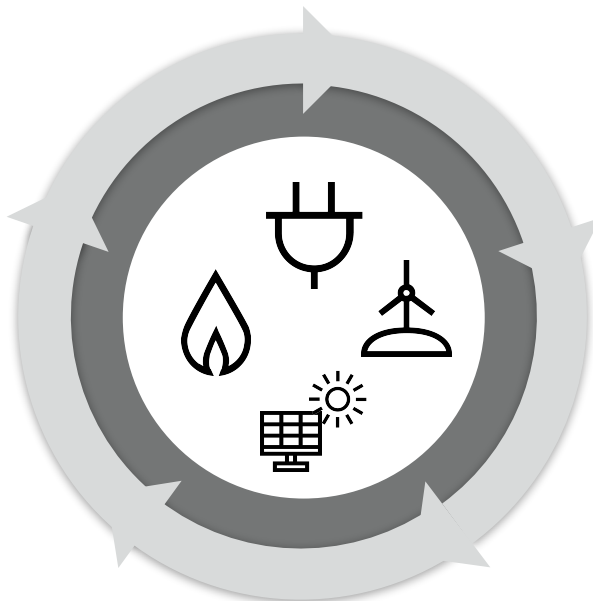
Smart city applications



Connected fleets



Densification



Distributed energy resources

Education applications



Transportation electrification



AMI/smart grid



EV charging



Managed drones/bots



Underpinned by a standards based platform that enables distributed intelligence and grid



Next steps.

Benefits

Distributed energy sources

Proactive maintenance; decrease expenses

Diverse partnerships; leveraging network and security

Near real time data

Clean energy advancements



Opportunity

Image courtesy of Gensler

Consequences

Disruption blackouts

Open security threats

Increased repair cost

Increased labor expense

Carbon generation

Reliability. Transparency. Safety. Innovation.



Regarding grid modernization, to achieve Boston's climate, health and equity goals, a critical obstacle to collectively overcome in 12 months is _____.



a lack of dynamic grid management to securely monitor all components in near real time and to support dynamic demand.



