

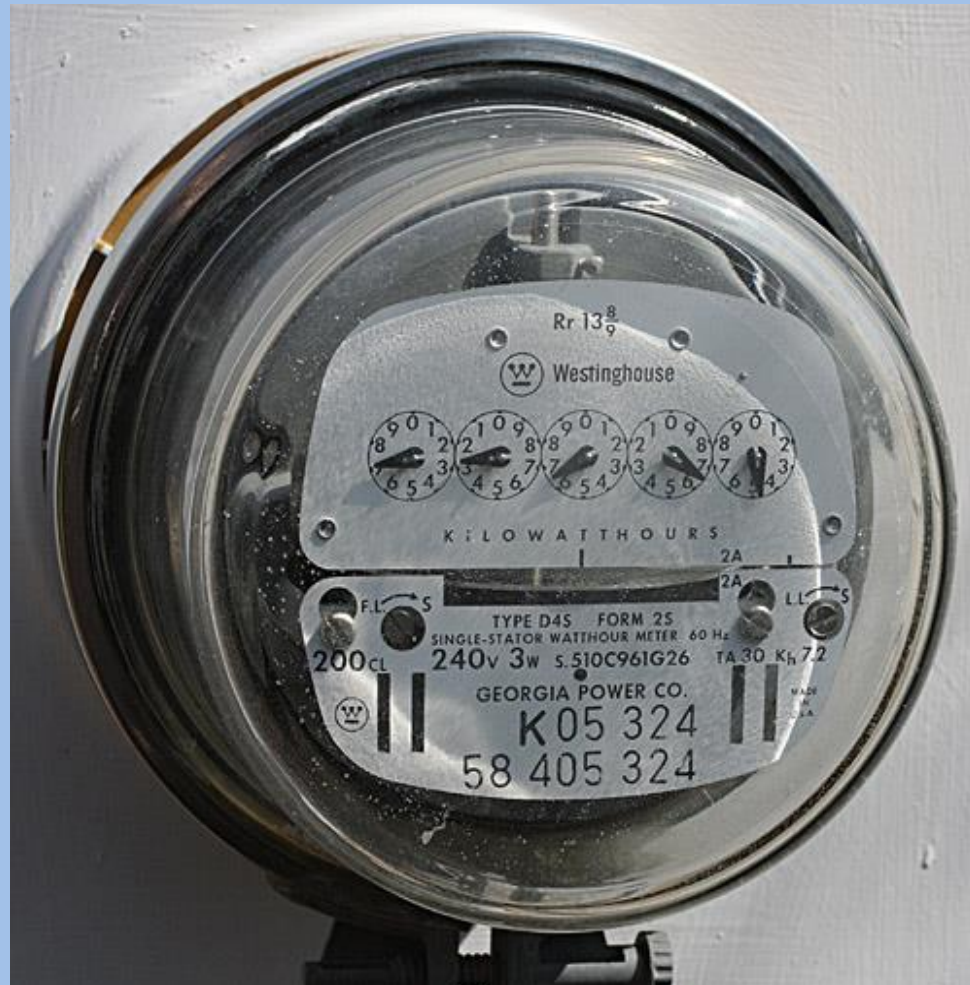
Smart Meter Dangers & What You Can Do About It



Overview

- Introduction
- Problems
- Solutions
- Actions to Take

Analog Meter



Smart Meter (AMI)

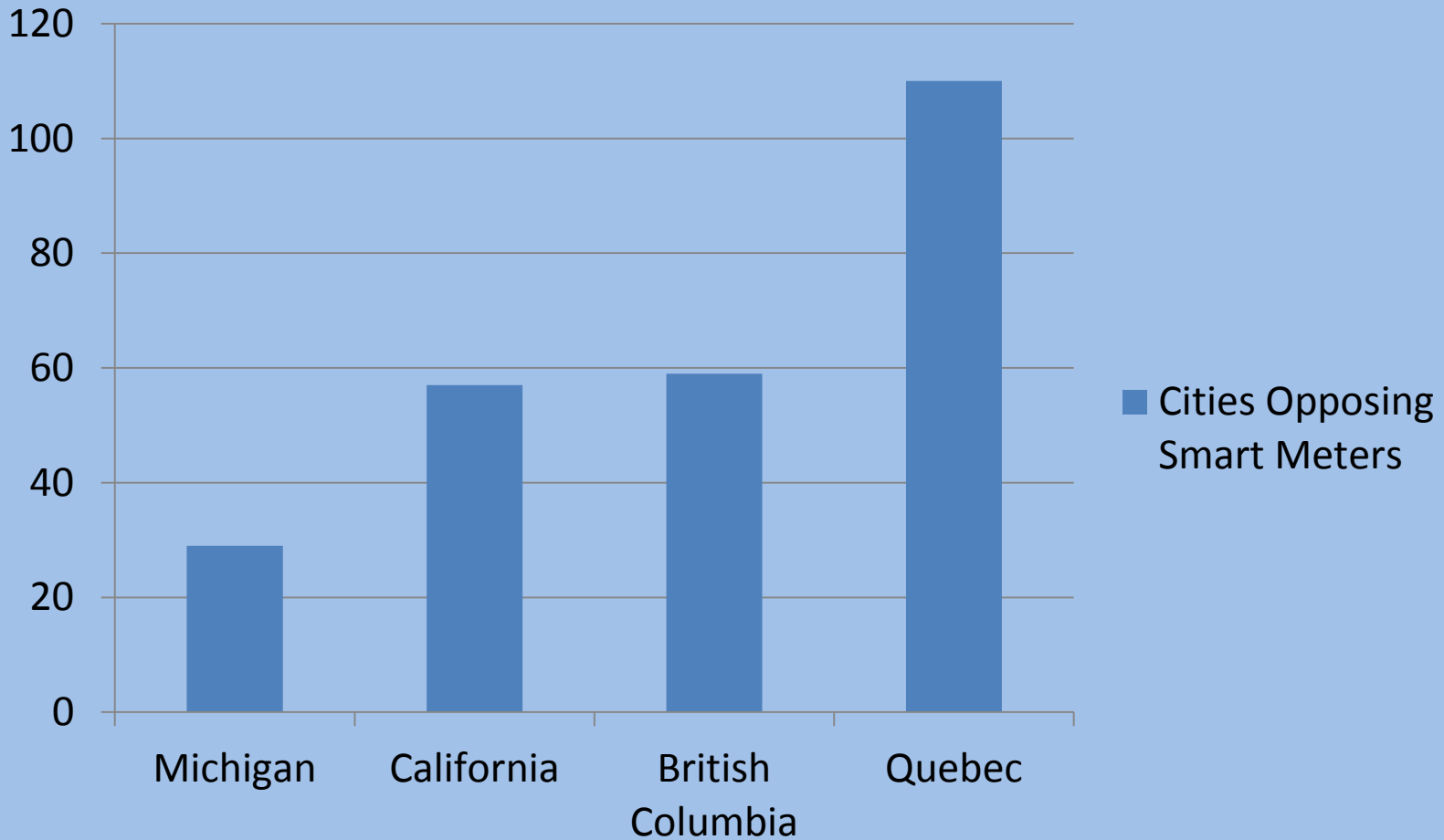


Problems

- No Customer Benefits
- Costs
- Health
- Fires
- Privacy
- Security

Cities Opposing AMI

Cities Opposing Smart Meters

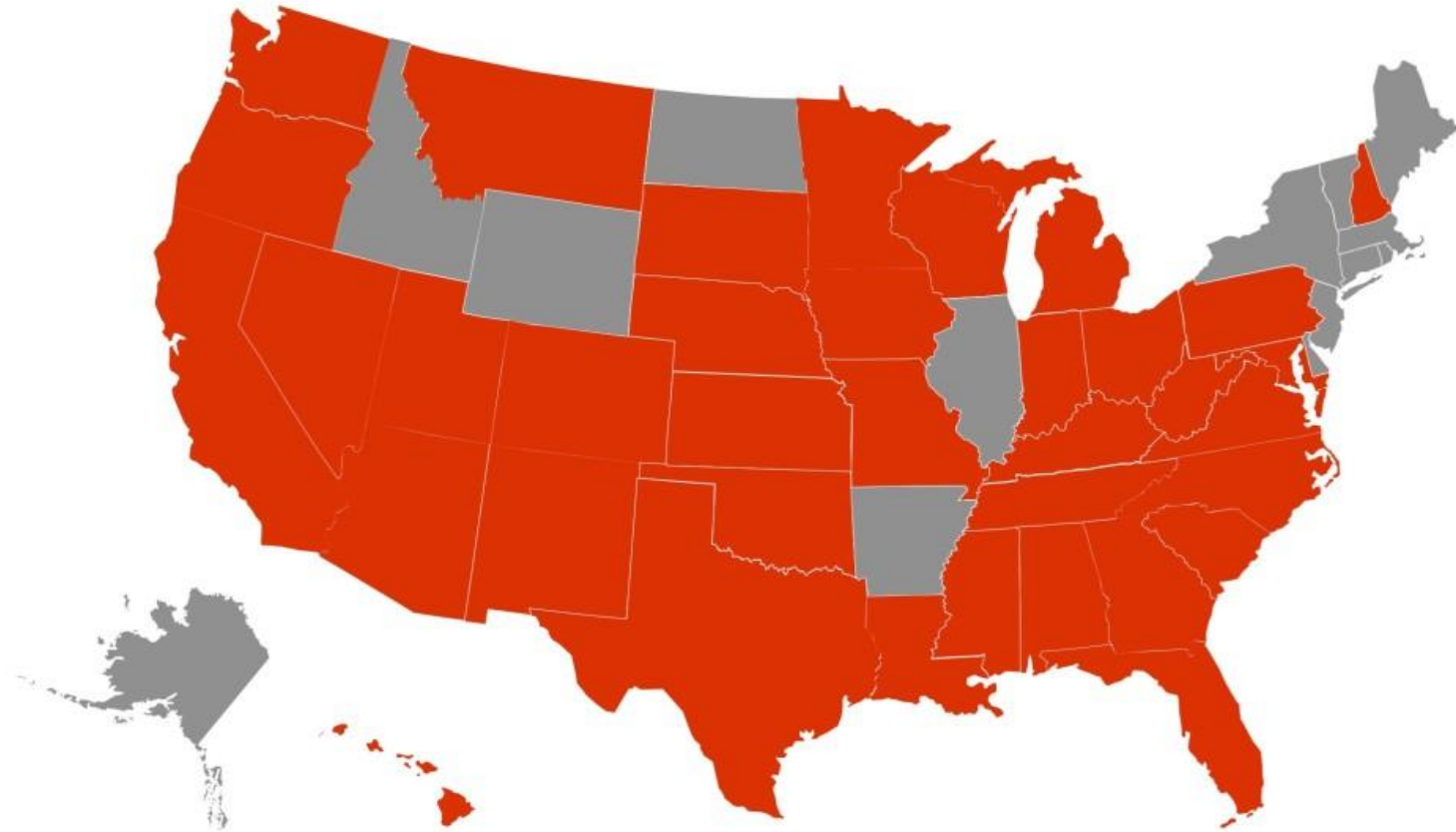


No Customer Benefits

- No Money Savings
- No Energy Savings
- 5% Energy Star Increases
- Utility Energy Increases

FREEDOM TO GENERATE UNDER FIRE

■ STATES FACING CHALLENGES TO DISTRIBUTED POWER



10/21/15

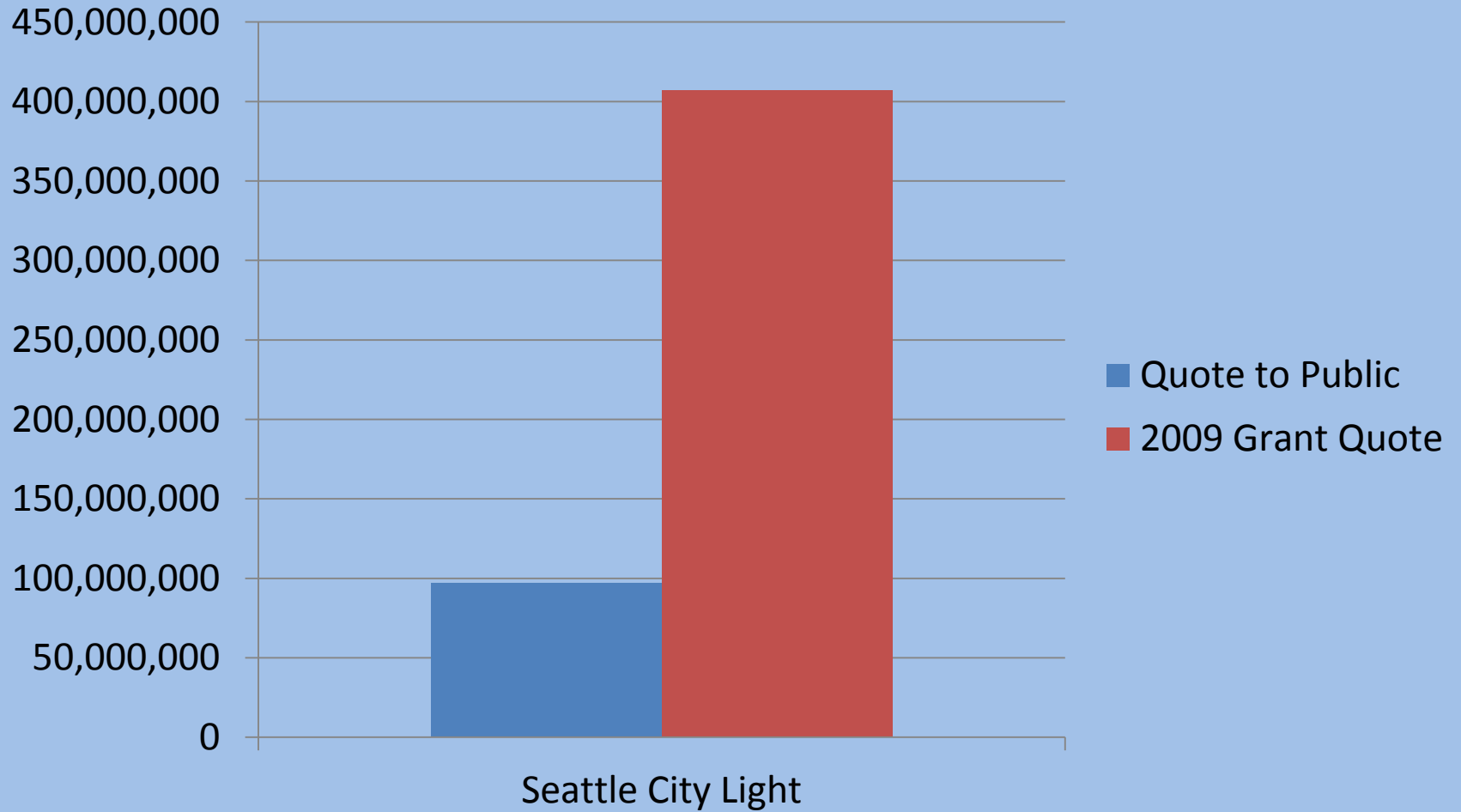
Sources: Renewable Energy World, Greentech Media, IREC, Vote Solar and many more
<http://bit.ly/DG-UnderFireMapData-ILSR>

ILSR INSTITUTE FOR
Local Self-Reliance

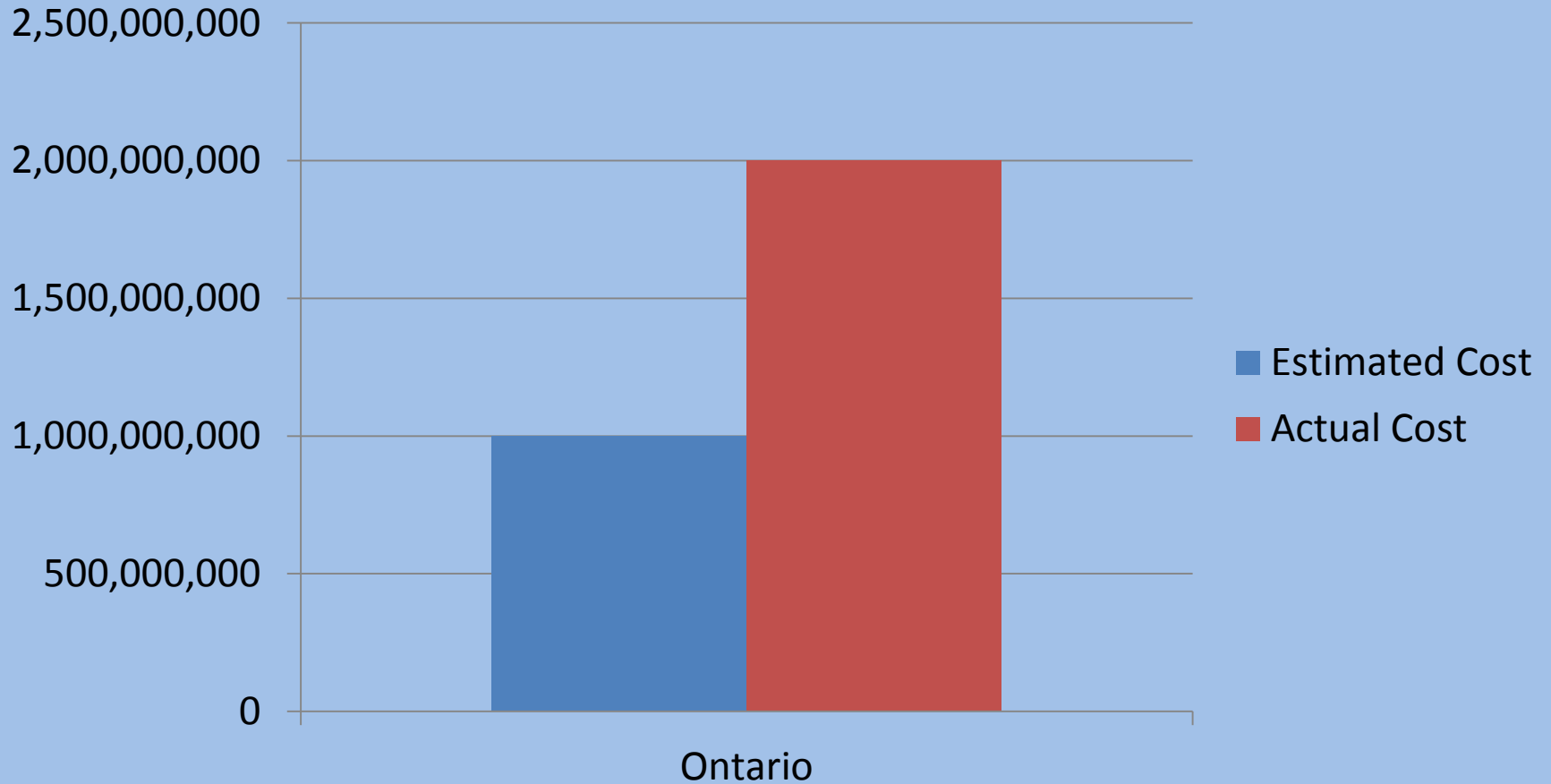
High Costs

- Installation
- Re-installation
- Time of Use
- Overbilling

Installation

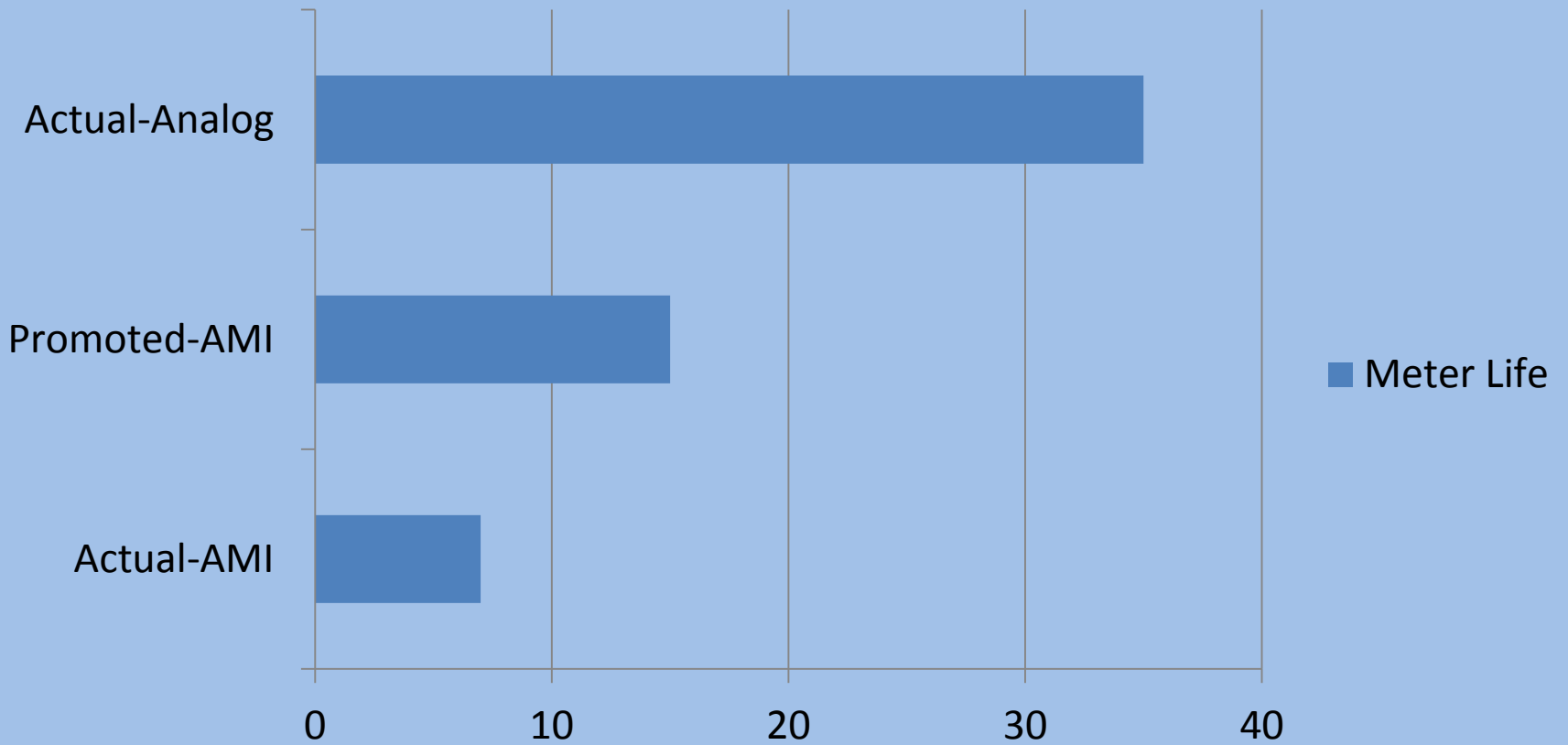


Installation

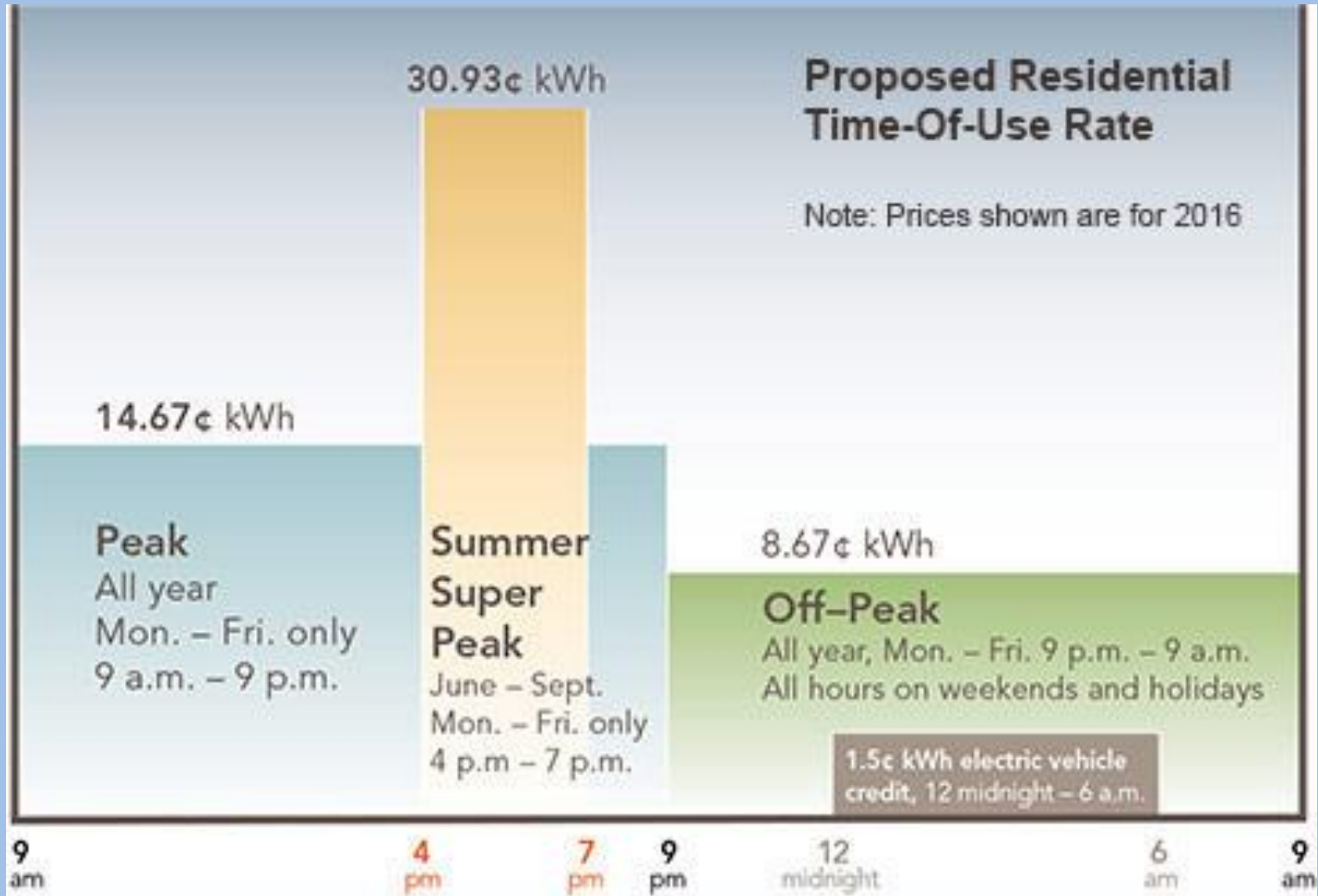


Re-installation

Meter Life



Time of Use



Overbilling

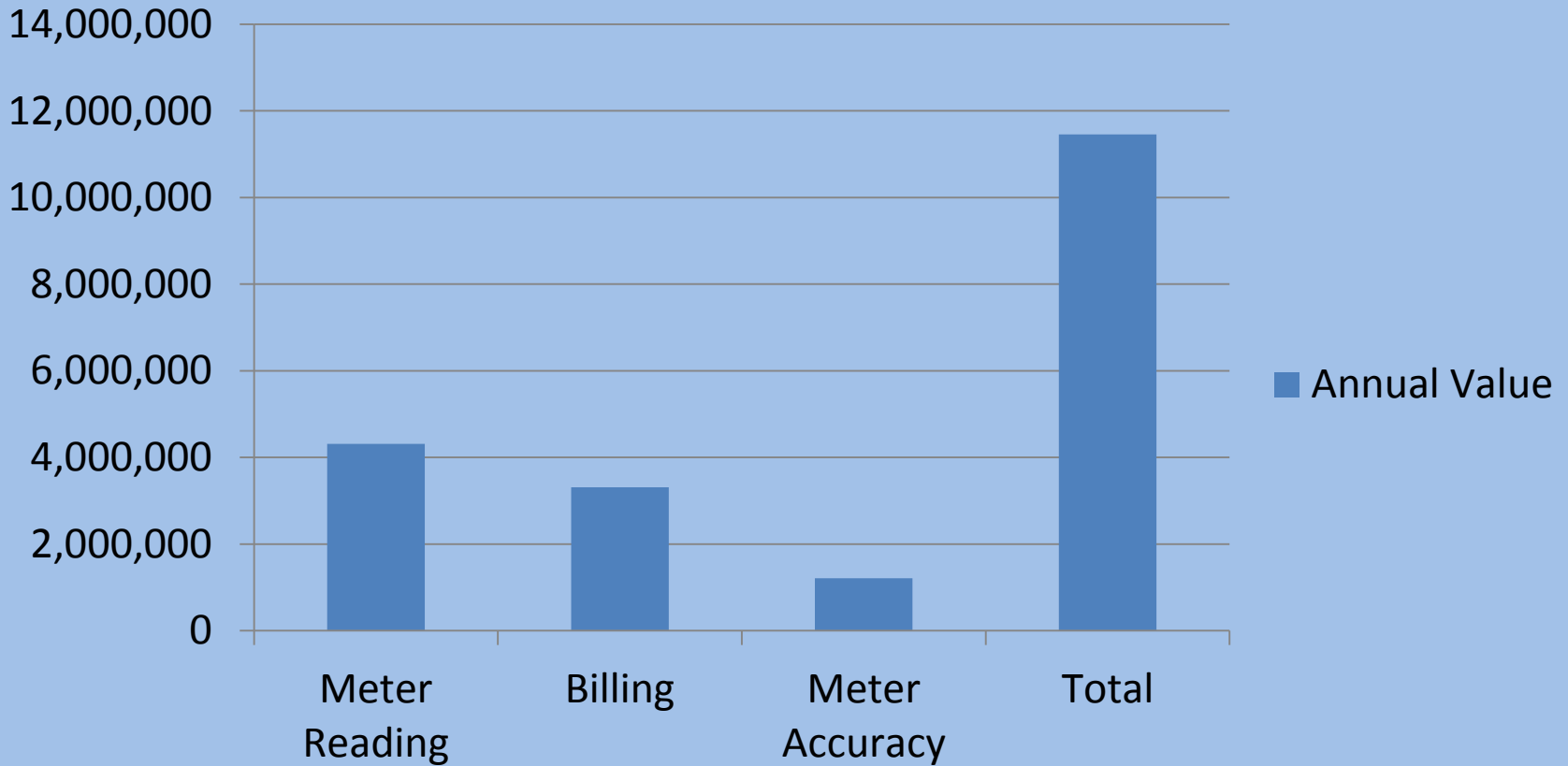
- Sacramento
- Maryland
- Ontario
- Quebec

Utilities Save, Make \$\$

- No Meter Readers
- Billing Savings
- Meter Accuracy
- AMI Makes More Money

City Light Savings, Income

Annual Value

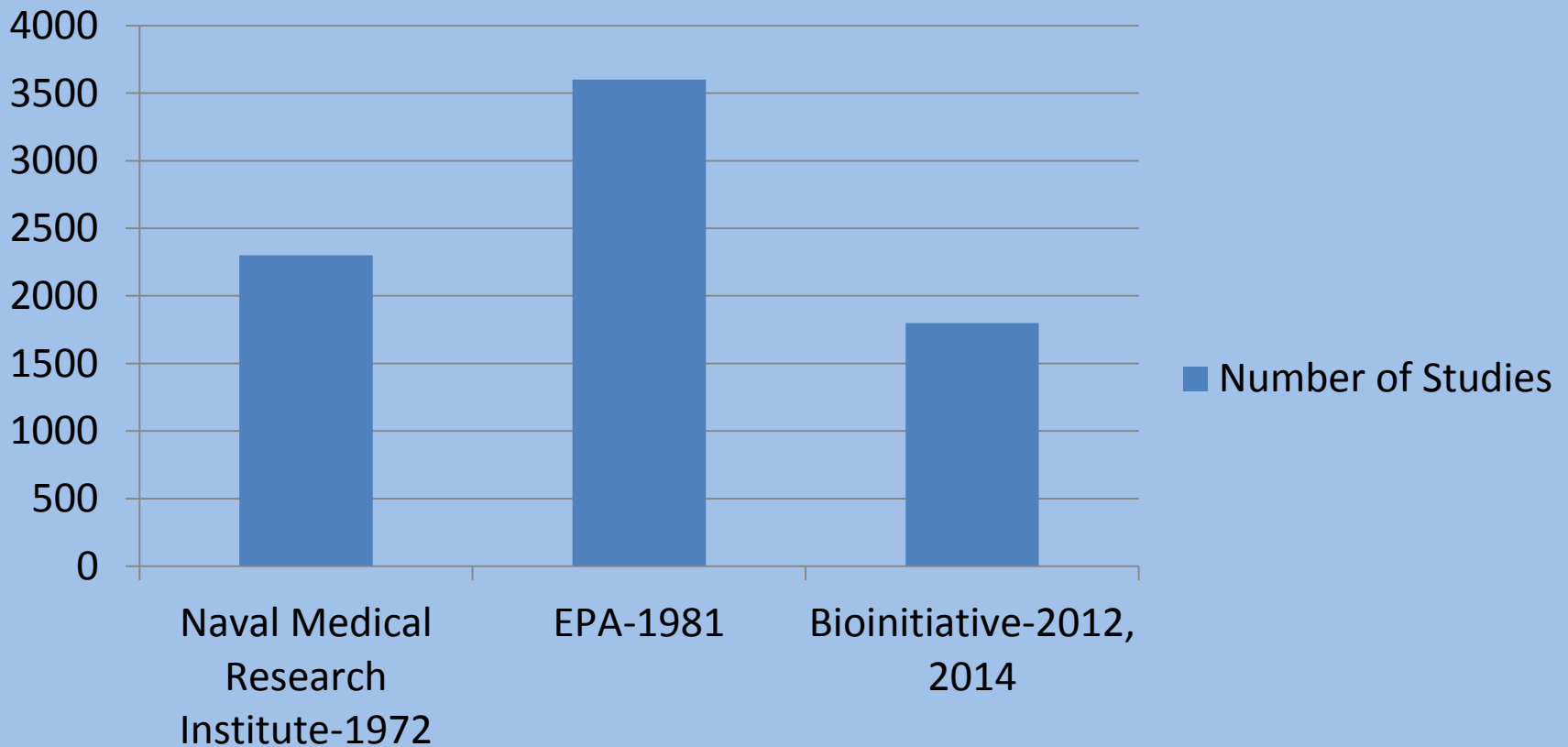


Health

- Decades of studies
- WHO-Possibly carcinogenic
- FCC vs. other countries
- Consider long term effects
- Precautionary Principle

RF Danger Studies

Number of Studies



Industry Denials

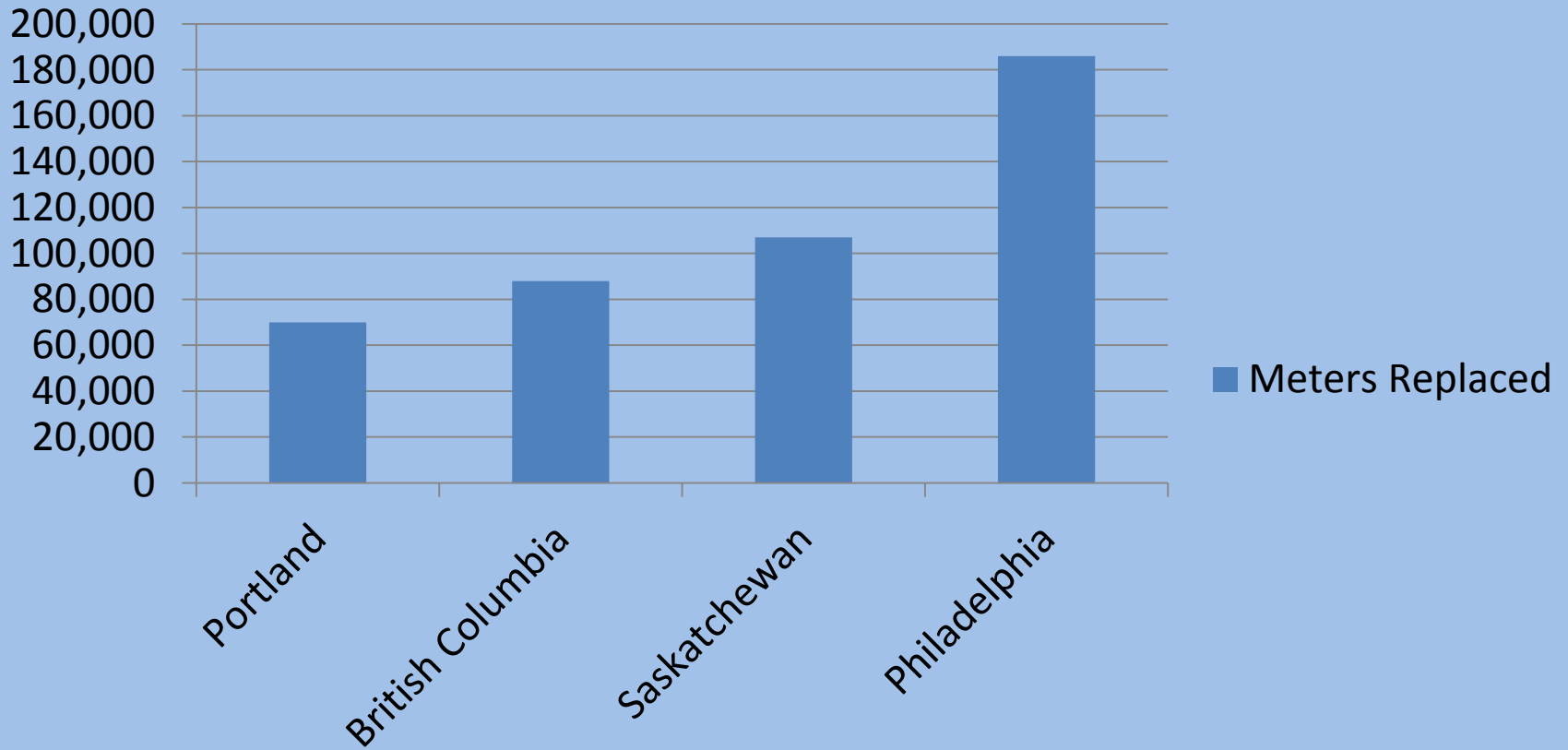
- Doubt is our product
- Average whole body exposure
- Average time exposure
- Use lab, not field measures
- Report, not pulse, frequency
- Don't address collectors

Fires & Explosions

- Problems in Many Cities
- CEO: “Systemic in Industry”
- Utility Denial, Yet Replace Meters

Fire-Based Replacements

Meters Replaced



Privacy

- Gov. Reports Show Invasion
- 3,000 Times More Data/mo.
- Watch All We're Doing
- Sell Data

- **Illegal:** Thieves see when no one is home. Stalkers track movements.
- **Commercial:** Targeted ads, Insurance adjusting (leave appliances on?)
- **Law Enforcement:** Detect illegal activities, Verify defendant claims (home all evening)
- **Legal:** Custody, landlord-tenant
- **Family members:** Spying on partner's behavior

Security

- 43 Security Problems
- Home Burglaries
- Energy Theft
- Increased Bills
- Grid Collapse

Solutions

- Opt-in
- Conservation
- Distributed Energy
- Microgrids
- Storage
- Transverters

Conservation

- Least cost, least risk, least enviro impact
- \$761 M saved above \$215 M spent
- 1 M metric tons avoided
- 1,690-3,380 new jobs created (AMI eliminates jobs)
- City Light reduced budget \$94M to \$61M

Actions

- Contact City Council
- Spread the Word
- Watch Take Back Your Power
- Begin Notice of Liability
- Push Distributed Energy Policies

Summary

- No Customer Benefits
- High Costs
- Health
- Fires
- Privacy
- Security

Q&A