

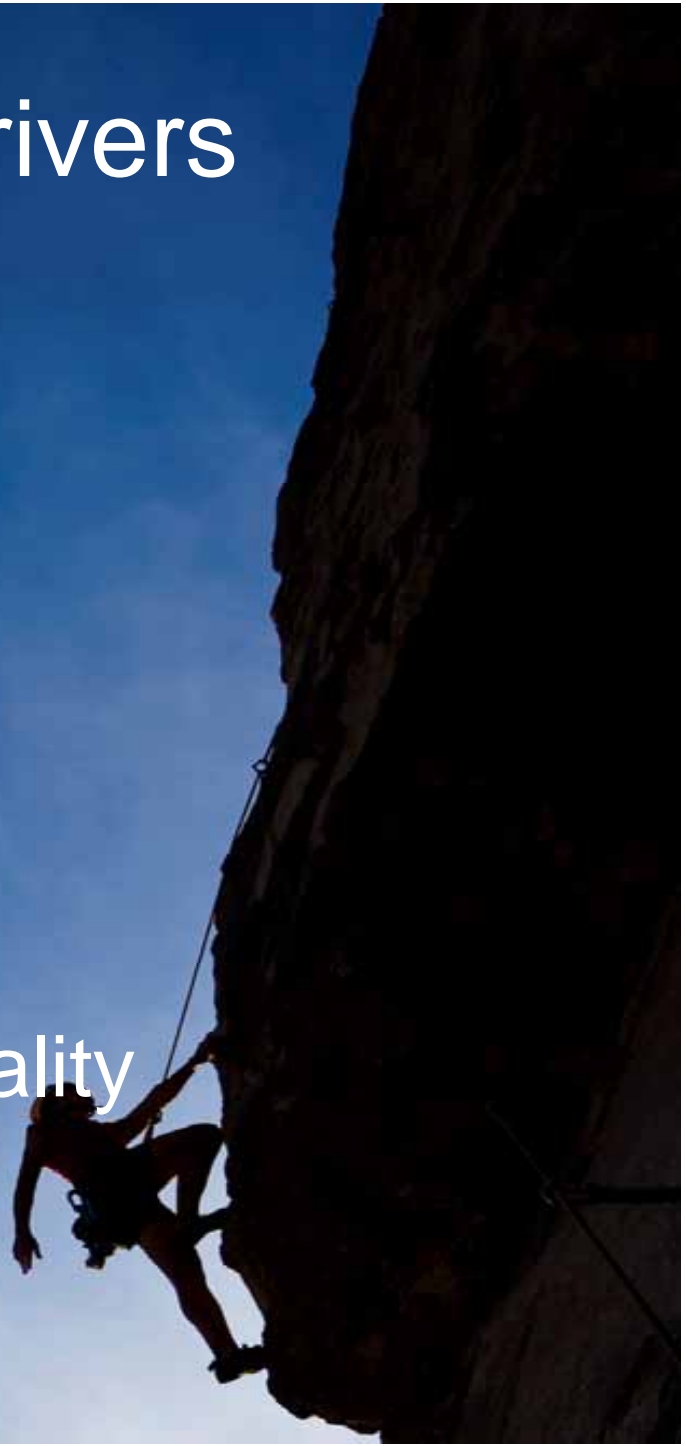
# Enabling renewable power with a smarter grid ...



**Improving energy independence and economic competitiveness through smarter energy investments**

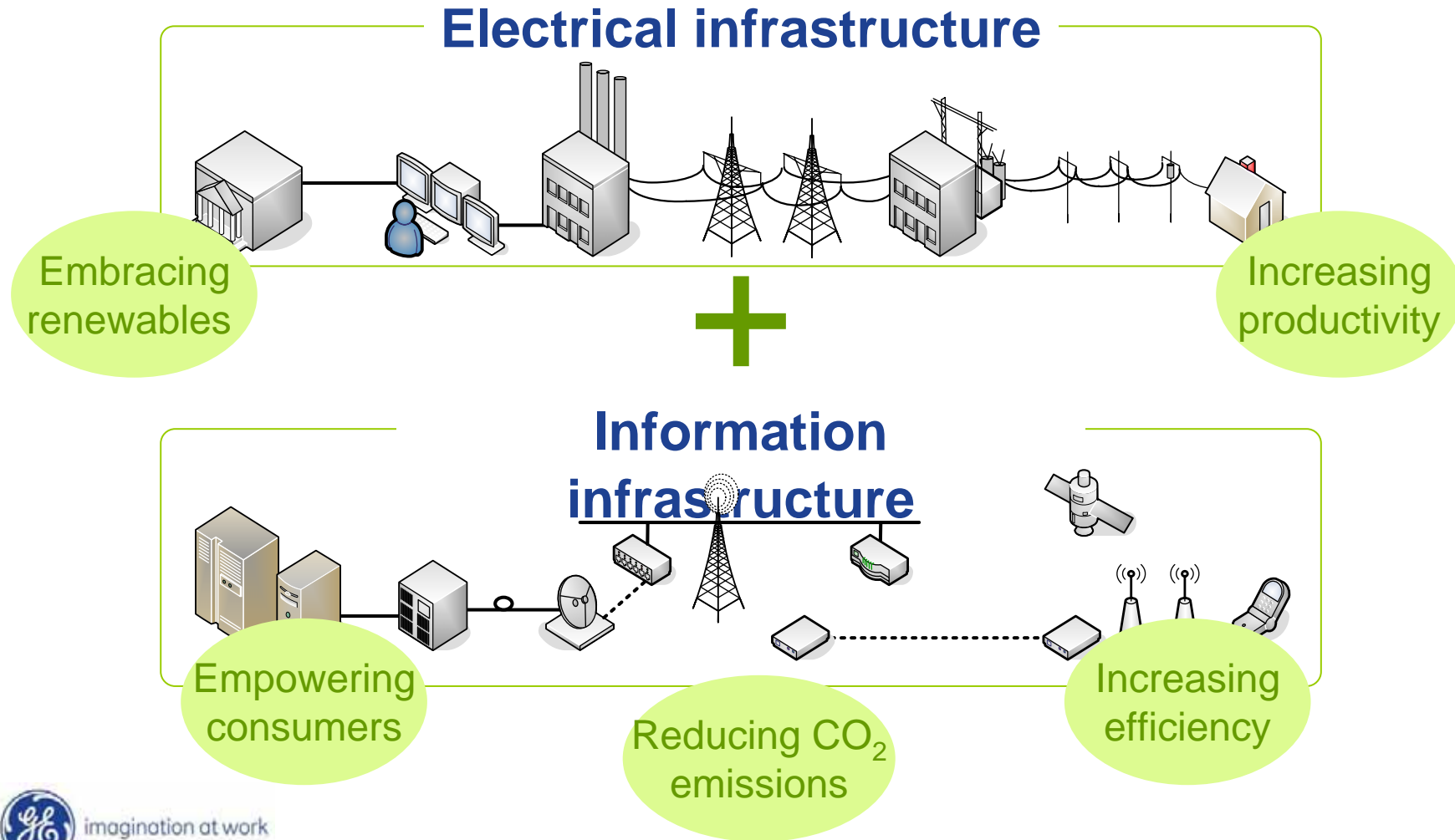
# Geopolitical & industry drivers

- Policy drives green energy adoption
- Long-term energy demand increasing
- Managing growing peak
- Rising cost of energy
- Importance of reliability & quality
- Aging infrastructure



# What is smart grid?

The integration of two infrastructures ...



# Advanced holistic solutions *aligned with business drivers*

## Demand optimization

*Reducing peak demand, empowering consumers, deferring infrastructure investment*

## Distribution optimization

*Improving reliability and efficiency, integrating renewables*

## Asset optimization

*Reducing outages and unexpected transformer failure, maximizing life of aging assets*

## Transmission Optimization

*Improving reliability and efficiency, integrating centralized renewables, wide area protection*

## Workforce & engineering optimization

*Increasing productivity , cost-effective grid design*

Working together  
to provide  
customer solutions

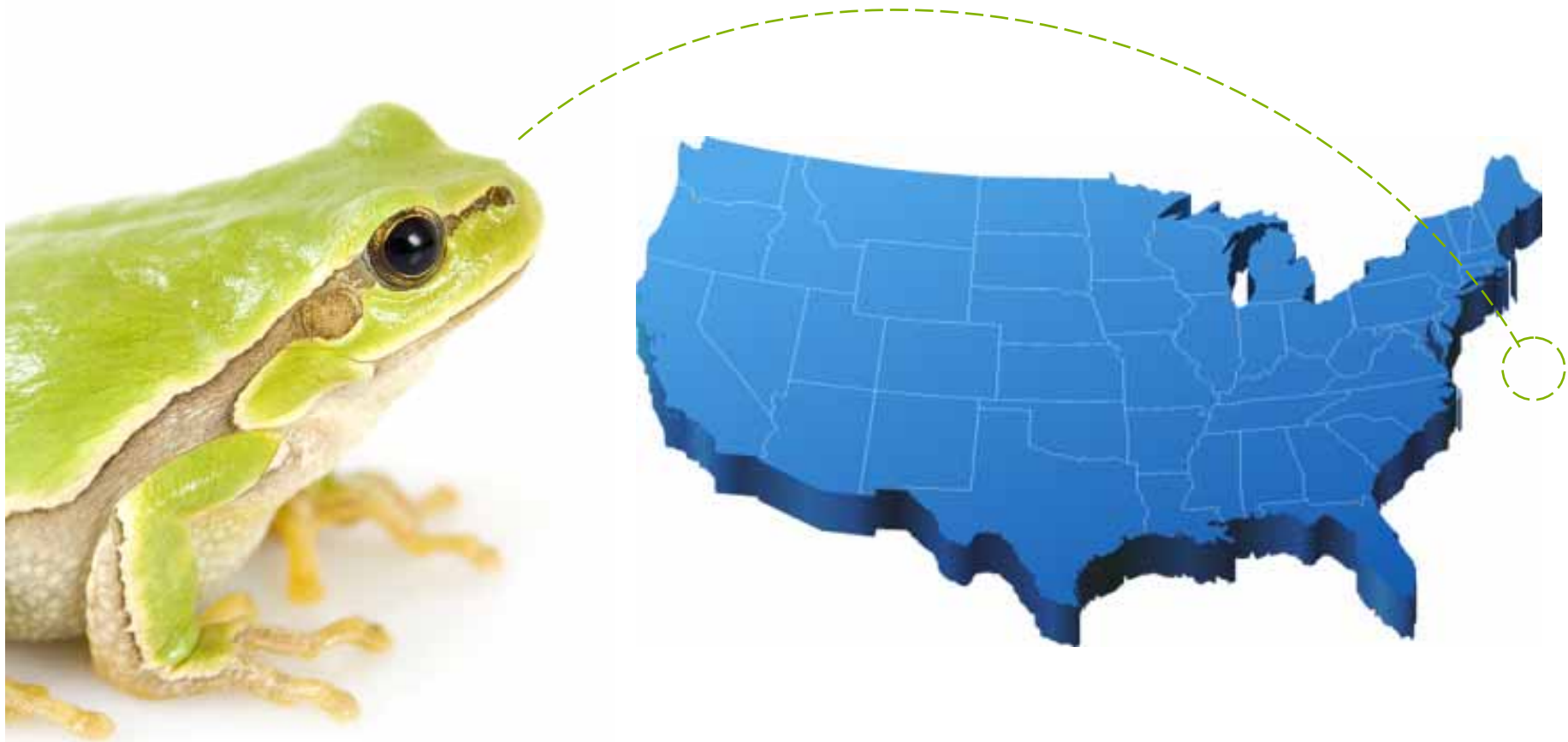


# Hawaii has unique challenges ...

- Oil meets 90% of Hawaii's energy needs
- Billions of dollars leave the state annually for fuel purchase
- Electricity costs 3X U.S. average ... averaging 30 cents/kWh



# Island state positioned to leapfrog U.S. in smart energy advancement



# Maui's smart grid ... a vision for the US and other markets to follow



# It's going to keep getting better

Developing grid-communications, generation, transmission, distribution and consumer products that tie into today's smart grid investments

- Smart appliances
- Demand response
- Distribution optimization
- Hybrid electric cars



# Consumer education is critical

**IT'S YOUR SMART GRID**

ENERGY ISSUES | SMART GRID SOLUTIONS | INTERACT | TAKE ACTION | RESOURCES

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**SO WHAT IS THE SMART GRID ANYWAY AND WHY SHOULD I CARE?**

- MANAGE RISING COSTS
- ENERGY INDEPENDENCE
- GREEN JOBS
- ENVIRONMENTAL IMPACT
- POWER RELIABILITY
- MODERN INFRASTRUCTURE

**WHAT IS THE SMART GRID?**

The smart grid is, in essence, an "energy internet" in that it delivers real-time energy information and knowledge directly to you

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Thank you

