



# **GE Ecomagination**

***Enabling the Global Energy Transformation***

**Brandon Owens, Global Director  
GE Ecomagination**



# Ecomagination

Climate science is real

Economic s remain critical

Must solve tough problems

“Innovation is the bridge”

## OUR SOLUTIONS



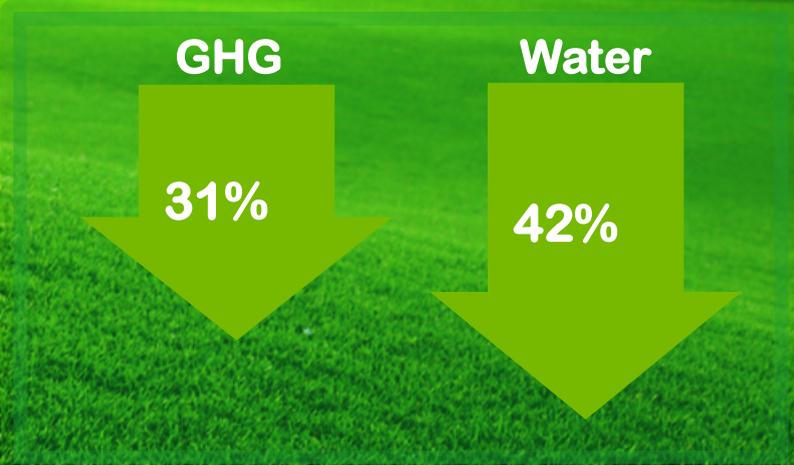
## FOOTPRINT



## RETURN ON INVESTMENT

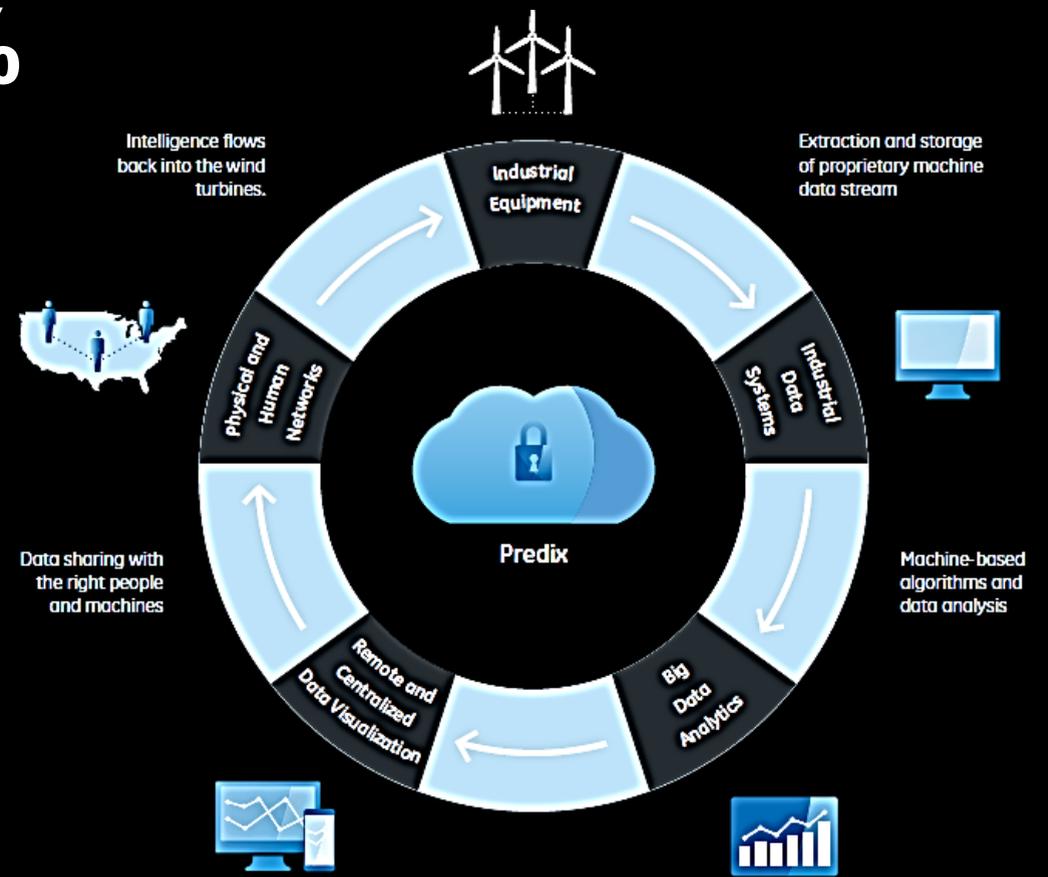
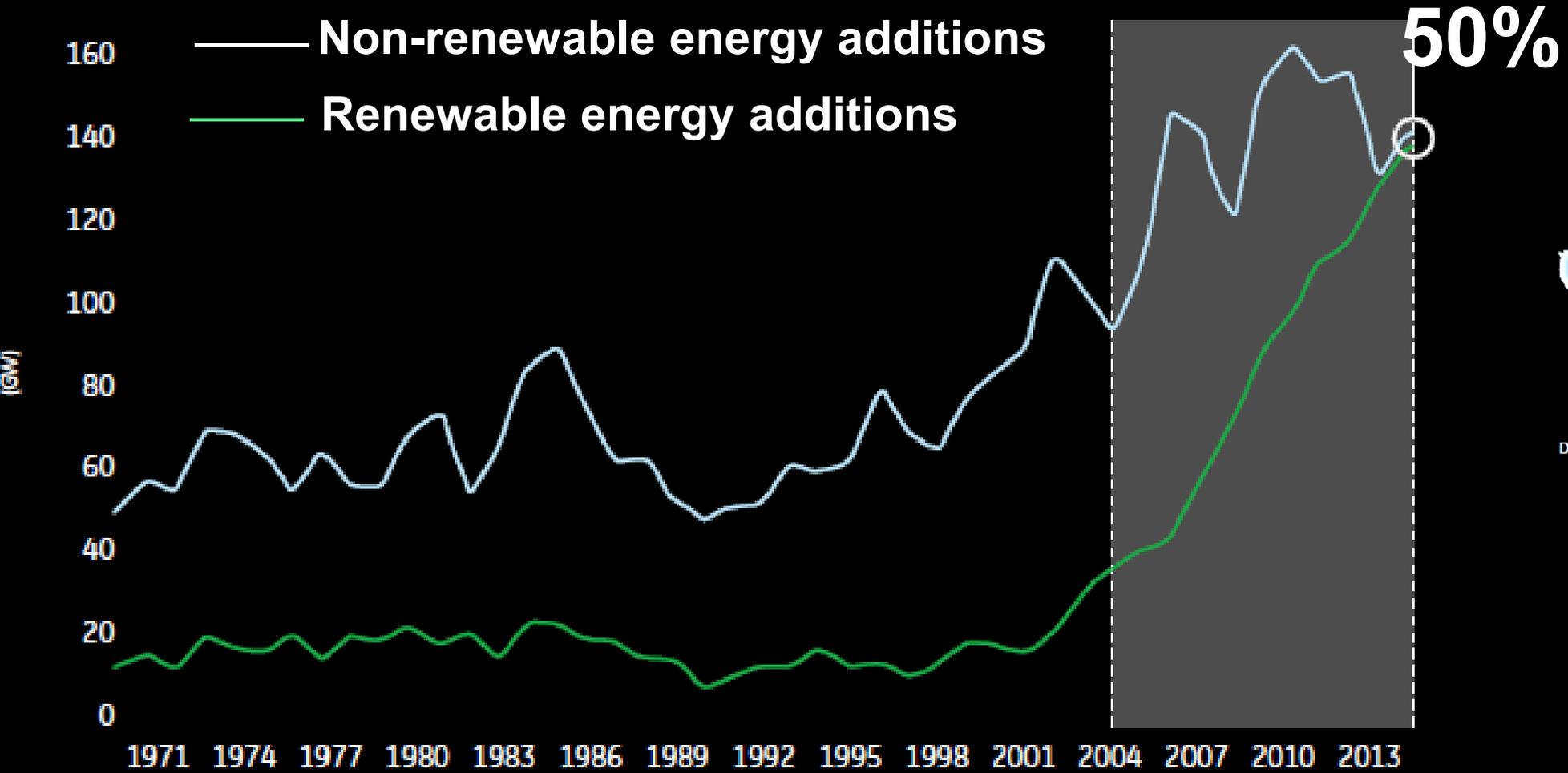


## ENVIRONMENTAL FOOTPRINT



# The global energy transformation...has begun

## Global electric capacity additions (1970-2014) Energy and the Industrial Internet



**Energy technology innovation**

**+ The digitization of energy**

# How will Ecomagination enable the transformation?

---

*New Business Models*

*Investment in R&D*

*Partnerships*

Partnering for global impact...

... and creating a world that works faster, cleaner, smarter and better

# New business models

---



## REDUCE ENERGY COSTS

Current will optimize a solution that reduces energy, produces power on site and shifts usage with a comprehensive set of Ecomagination certified LED lighting systems, energy storage, solar, and gas fired technology options.



## DRIVE GRID RELIABILITY FOR UTILITIES

Current advances grid reliability and resiliency for utilities with solutions to meet the future challenges created by an increasingly distributed electric grid.



## ENABLE INTELLIGENT ENVIRONMENTS

We enable intelligent environments where lighting is networked with sensors that capture usage and energy consumption data to dynamically improve productivity.

**current**  
powered by GE

**Predix** is the backbone of the Industrial Internet, taking data from machines and generating insights for customers. Customers can use Predix to analyze energy consumption and create efficiencies.

# Focus on R&D

## Global Research Centers driving breakthroughs for Ecomagination and GE



<p>6,000 scientists Current Aviation</p>	<p>112-year history Energy Connections Oil &amp; Gas</p>	<p>105,000+ patents Power &amp; Water Healthcare Transportation</p>
--	--	---

# Commercial partnerships to accelerate results...

1

Water scarcity

2

Rising energy demand

3

Energy production footprint

4

Manufacturing Inefficiencies



...and solve tough resource and environmental challenges





# **GE Ecomagination**

## ***Enabling the Global Energy Transformation***

**Brandon Owens, Global Director**  
**GE Ecomagination**

