

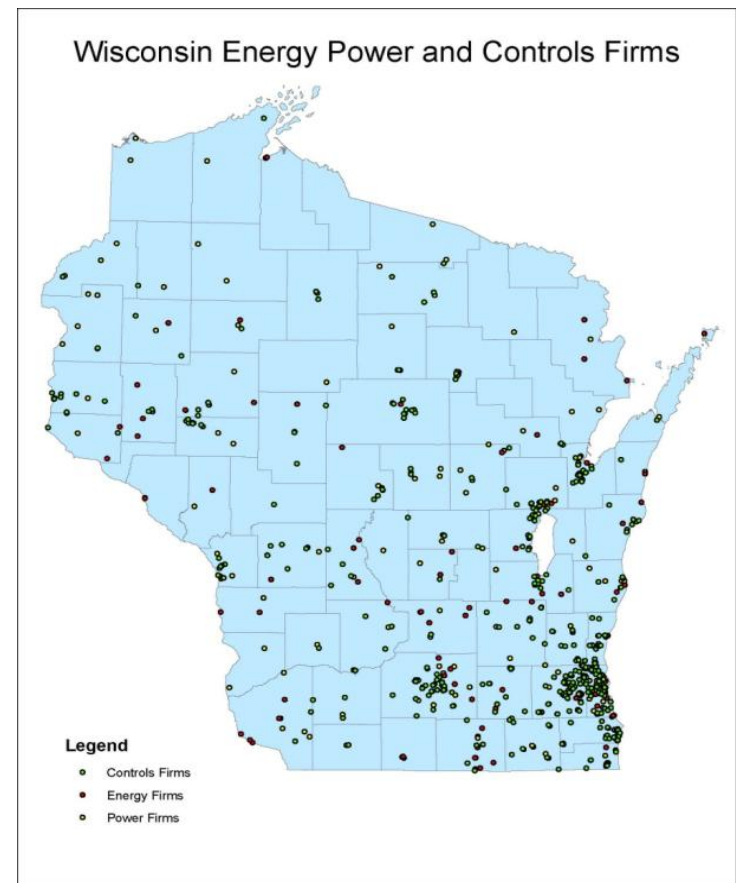


**Anticipating Future Needs:**  
*Making Wisconsin*  
*Globally Competitive*

**Chancellor Michael R. Lovell**  
*March 6, 2014*  
**Board of Regents Meeting**

# Example: Energy Power and Controls

- 900 EPC sector companies
- 100,000+ employees
- \$38 billion in revenue each year



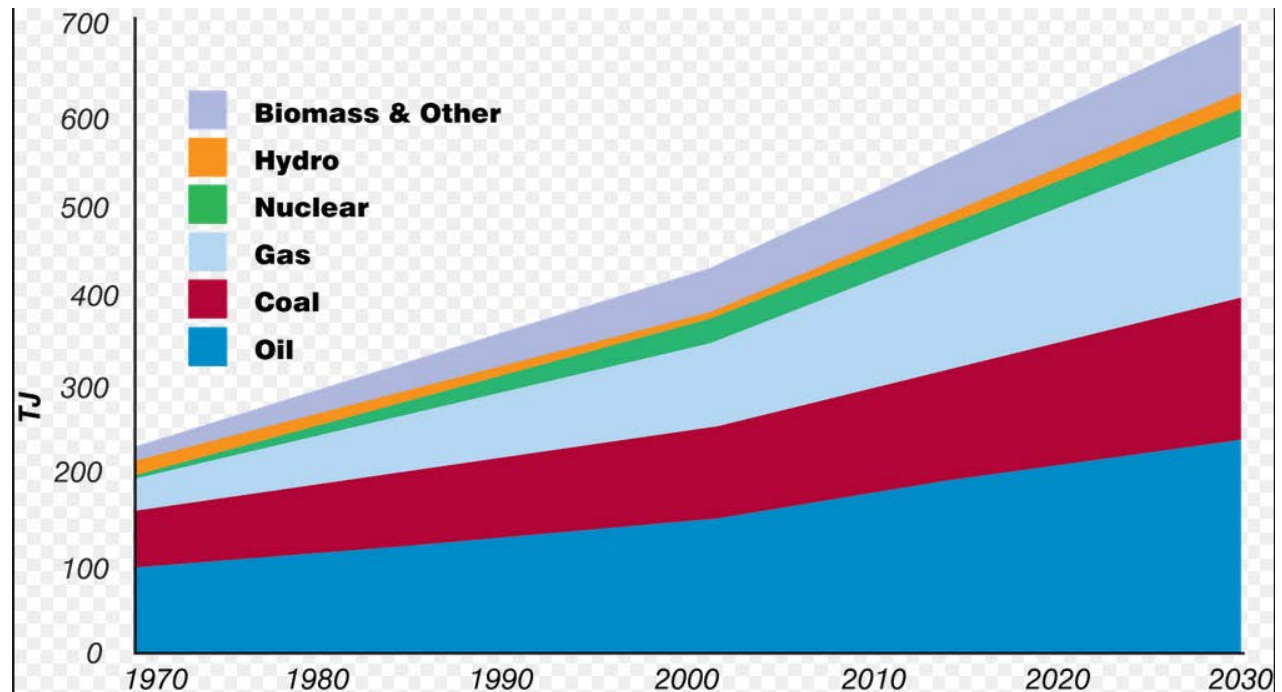
# Historical Context

- Wisconsin is a global leader
- Foundational sector on which state's economy has been built



# Historic Opportunity

- Global power and energy market to grow \$1.9 trillion over next five years\*



\*Prediction from  
2012 Advanced  
Energy Economy  
Institute Study

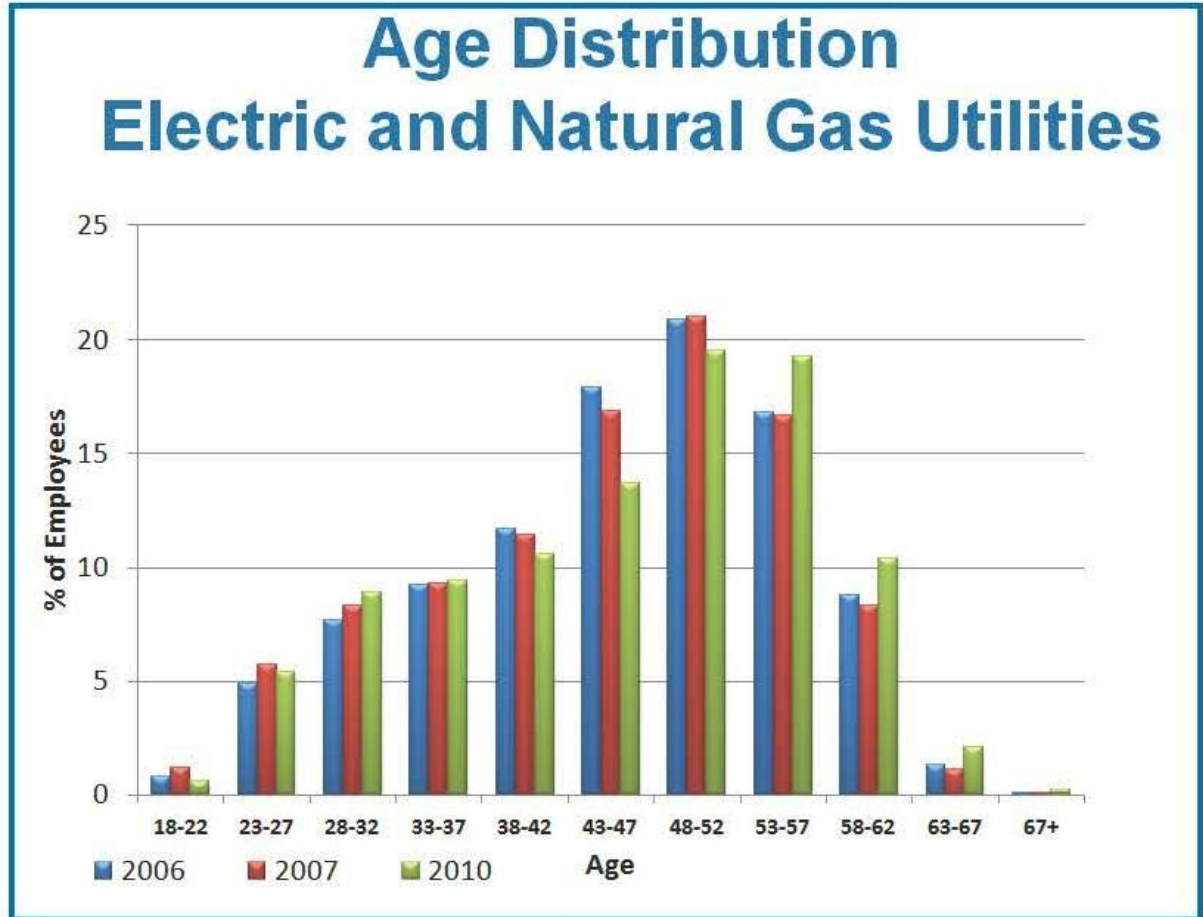
# Historic Opportunity

- Political Economy Research Institute study: Wisconsin could attain \$2.8 billion in clean energy investment revenue and create 35,000 new jobs
- Wisconsin ranks 26<sup>th</sup> among states for venture capital investment into developing clean energy technologies



# Challenge

- Over next decade, 62% of energy workforce will retire (average age 46.6)\*



\*Center for Energy Workforce Development

# Overcoming the Challenge

- Forming new consortium (9 academic institutions and 60+ corporations in 8 states)



- Developing new model for university-industry engagement



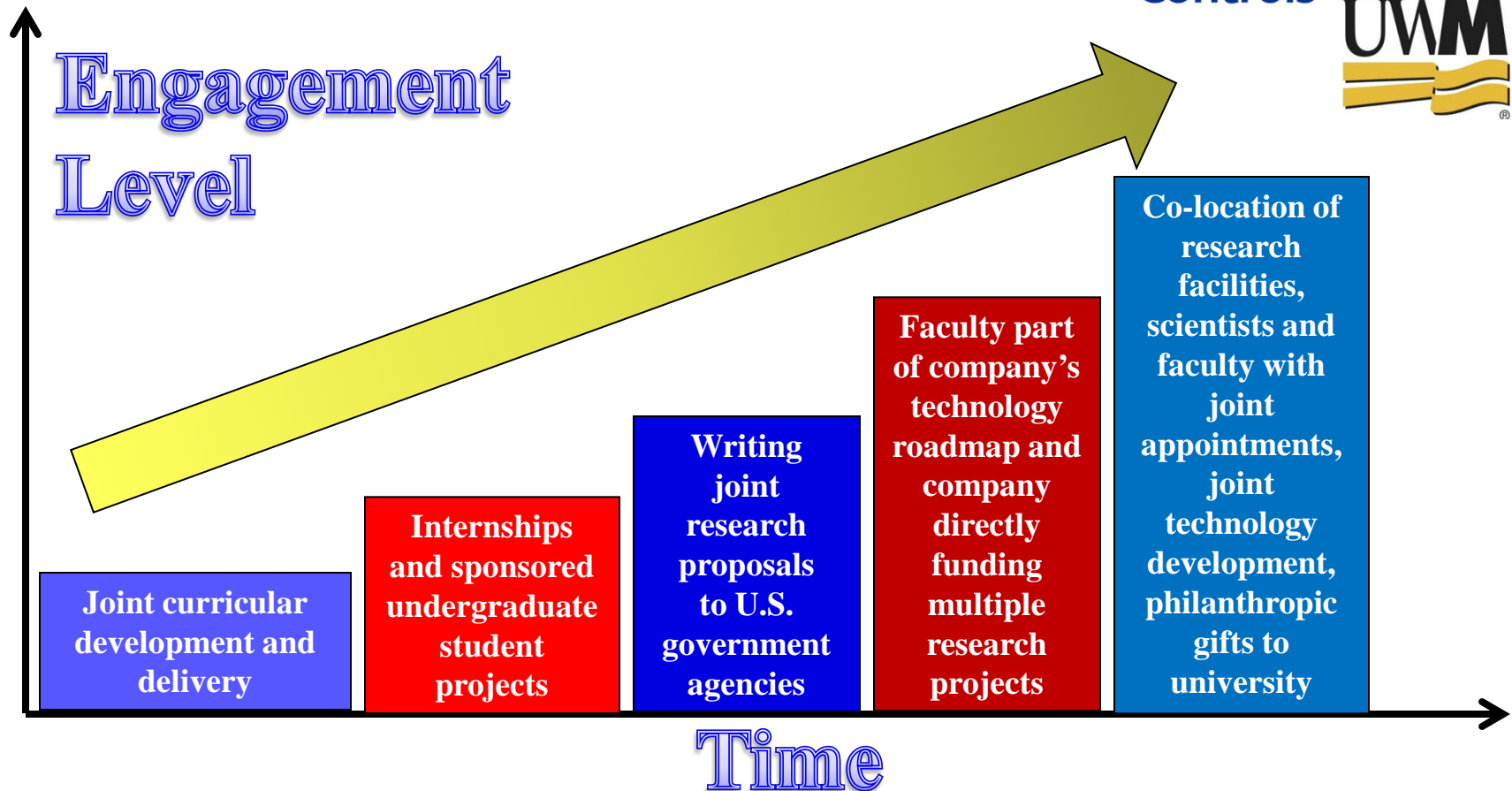
**Vision:**  
*Make Wisconsin  
National Leader in  
Energy Power and Controls*



- Workforce Development
- Technology Innovation
- Market and Industry Expansion
- Public Policy Support
- Strategic Collaboration



# New Engagement Model



# New Model Benefits

- Creating a talent pipeline of future employees
- Already attracted 16 world-class scientists to Milwaukee
- Intellectual talents of UWM faculty and students used to solve Johnson Controls' technical challenges



# New Model Benefits



- World-class facilities for faculty and students
- Students take unique leading-edge courses, obtain internships, and learn directly from industry mentors
- Faculty have scientific partners who make them more competitive nationally for funding
- Direct Johnson Controls research funding supports faculty and students

# A New Engagement Model

## New Model Benefits

- State becoming renowned nationally – U.S. DOE energy storage hub and Edison Award
- Over last year, UWM and JCI joint DOE proposals awarded \$35 million of federal funds with 92% success rate
- Activities attracting new companies and talent into the region



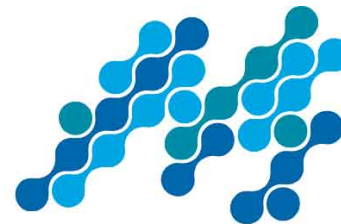
EPC in WI



# Model Being Replicated for Other Wisconsin Identified Clusters

**Rockwell**  
**Automation**

GE Healthcare



MILWAUKEE WATER COUNCIL