# Why Climate Change and Energy Matters to Healthcare

WI Governor's Task Force on Climate Change 6/27/20 Jeff Rich, Senior Advisory Consultant to Health Care Without Harm



Sr. Advisory Consultant to Health Care Without Harm

### **Jeff Rich**

- Wisconsin native, living near West Salem, WI
- B.S. Mechanical Engineering U.W. Platteville
- 17 years in manufacturing (John Deere, Trane)
- 12 years in healthcare Gundersen Health (retired 4/19)

Developed and led Gundersen's Envision Program

- ➢ 55% energy efficiency improvement
- Implemented a portfolio of renewable energy projects (wind, solar, biogas, biomass, geothermal)
- 1<sup>st</sup> U.S. health system to achieve energy independence 10/14/14

Relevant Committee and Board Service:

- National Governor's Association Policy Academy Hospital rep. (2010)
- Gundersen Health Plan Board Member and Secretary (2011 2016)
- U.W. Platteville S.R.E.S. Major Advisory Board Chair (2015 present)
- Health Care Without Harm Climate Council Steering Committee (2018)
- Renew Wisconsin Board Member and Treasurer (2019 present)
- Wisconsin Health Professionals for Climate Action Advisory Board (2020)





Health Care Without Harm (HCWH), founded in 1996, supports the health care sector in reducing its carbon footprint, building climate-smart and resilient hospitals and communities, and mobilizing health care's influence and purchasing power to advance the transition to a sustainable, healthy, and just future.

National member network of over 1200 hospitals, including

70 Wisconsin hospitals

https://noharm.org



#### Health care contributes to climate change



### **Impact of Climate Change on Human Health**

Injuries, fatalities, mental health impacts Asthma, cardiovascular disease



#### Some Climate Change Effects We've Seen in Wisconsin Increased vector borne disease<sup>1</sup> / Severe flash flooding events





<sup>1</sup>Source: https://www.dhs.wisconsin.gov/publications/p01109.pdf

## Good Stewardship Leads to Affordable Care

- Healthcare cost crisis exists
  - Higher energy and costs are passed onto patients
  - At 4% margin, a \$1 cost reduction is equal to \$25 of revenue growth
- The typical hospital has 25%-30% energy waste
  - More difficult for small, rural hospitals to address
  - Hurdles include opportunity awareness, capital constraints, staff capabilities
- Additional energy savings potential via onsite renewable generation
  - Reduce peak demand charge cost impact





#### A Better Local Economy

#### Wealth = Health

- Studies have shown a correlation between the economic health of a community and the health of its population<sup>1</sup>
- Wisconsin spends between \$10B \$20B annually for fossil fuels
  - More homegrown, clean energy is a huge opportunity!
- Our communities want to participate in a clean energy economy
- More distributed, cleaner, and more equitable

<sup>1</sup>https://www.urban.org/sites/default/files/publication/49116/2000178-How-are-Income-and-Wealth-Linked-to-Health-and-Longevity.pdf

## Some HCWH recommendations - Mitigation

- Expanded Energy Efficiency programs
  - Focus on Energy incentives for electronic controls and B.A.S.
- Increased Net Metering Caps
- Allow 3<sup>rd</sup> Party Ownership / Financing of Onsite Solar
- Create a Renewable Natural Gas (RNG) market
  - 60% of hospital energy use is for heating needs
- Incentives for Electric Vehicle fleet conversion and infrastructure
  - Hospitals and clinics could make good charging locations



## Some HCWH recommendations - Adaptation

- Provide support for Community Climate Vulnerability Assessments
  - I.D. critical functions in community resiliency planning
- Incentives for energy storage and microgrids
  - Hospitals could serve as a pilot for key infrastructure
- Grants for hospital co-generation with "Island Mode" capabilities
  - Hospitals have 24 x 7 simultaneous heating and electricity loads





#### Thank you!

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