

Together for Tomorrow

David J. Cox, NIA President
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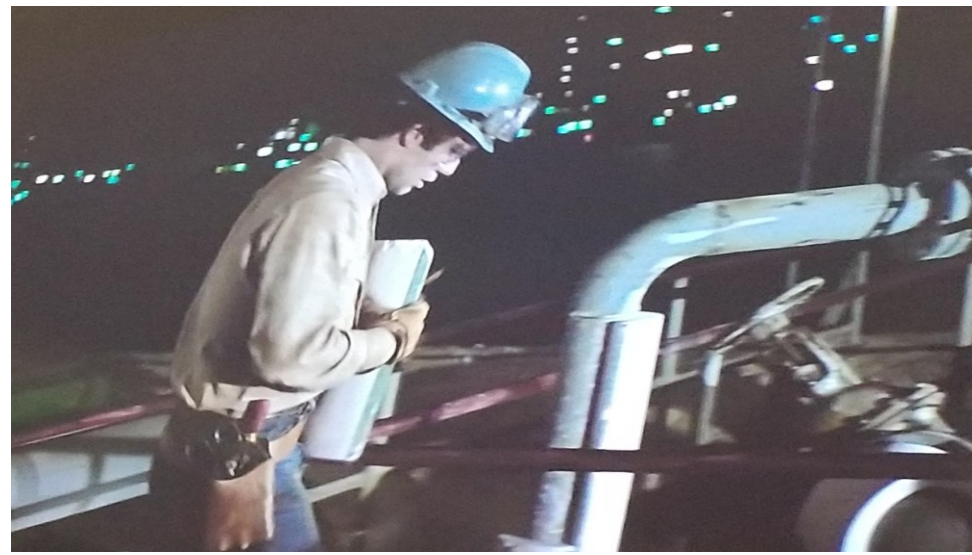
NIA | National Insulation
Association®

THE VOICE OF THE INSULATION INDUSTRY™

Son, Brother, Husband, Parent, 42-Year Employee





JOHN TRAVOLTA PLAYED AN INSULATOR IN *URBAN COWBOY*!



TO INFINITY AND BEYOND! LIMIT GLOBAL WARMING BY 1.5° C

- United States re-entered the Paris Agreement earlier this year and introduced a new 50-52% greenhouse gas emissions reduction target from 2005 levels by 2030.
- United States' Goal: Power sector to be carbon-pollution free by 2035.
- New York City and State's Goal: Carbon neutral by 2050. (Buildings are 70% of emissions.)
- United Airlines' Goal: Partnering with Occidental Petroleum—using air direct-capture technology—to be net zero by 2050.
- ExxonMobil Low Carbon Solutions' Goal: Investing \$3B by 2025 on carbon capture & storage and expect this to be \$2 trillion by 2040.
- NextEra's Goal: Reduce its CO₂ emissions rate by 67% from 2005 levels by 2025.
- General Motors – no gas or diesel vehicles by 2035.
- 21% of companies on Forbes Global 2000 list (the 2000 largest companies) have some sort of Net-Zero commitment
- Environmental, Social & Governance
 - Sustainability Accounting Standards Board (SASB) Metrics

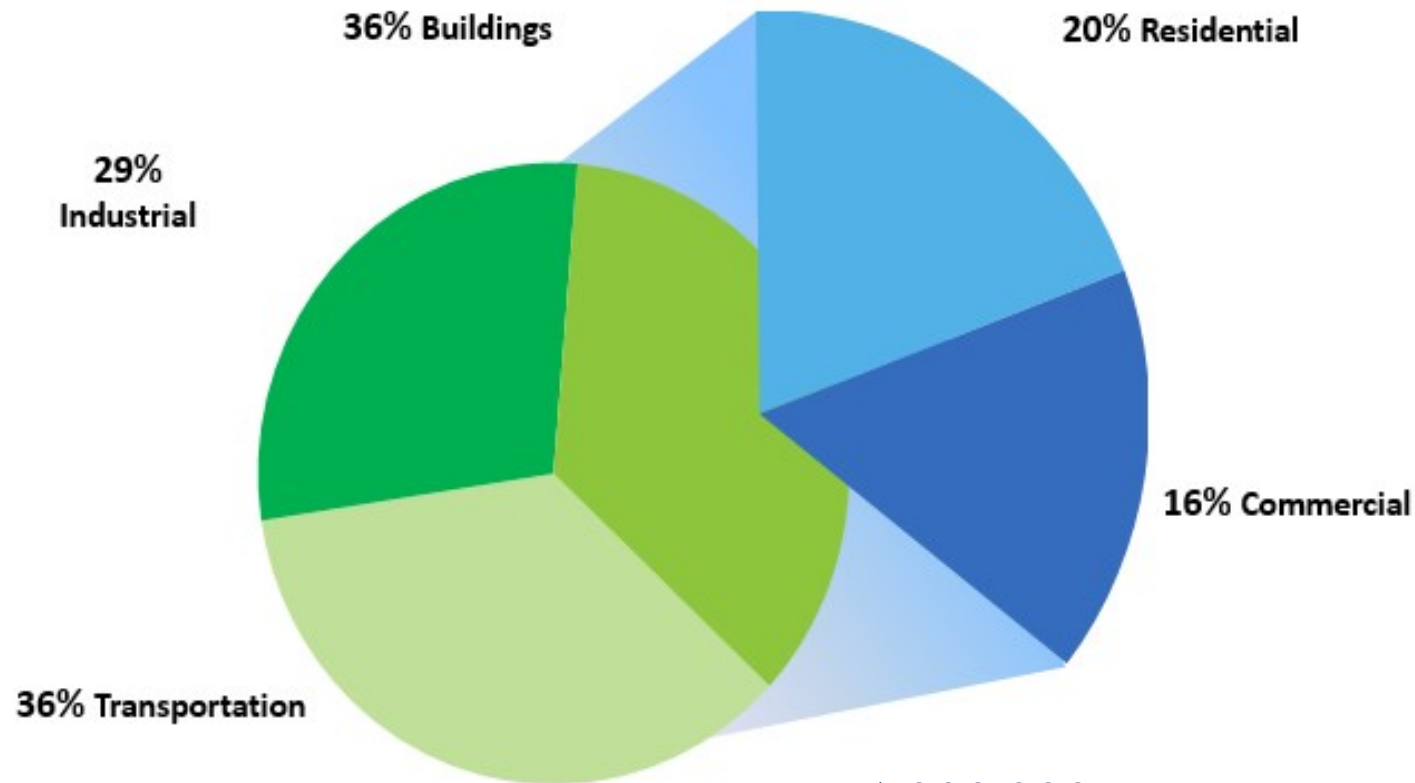
MECHANICAL INSULATION CONNECTED TO UNITED NATIONS' SUSTAINABLE DEVELOPMENT GOALS

| SDG | Our Approach |
|---|---|
| <div><div>7</div><div>AFFORDABLE AND CLEAN ENERGY</div><div></div></div> | <p>Our investment in emissions-free and clean generation has reduced the impact on the air we breathe and demonstrates our commitment to environmental protection and stewardship. Our strategy is based on generating and delivering clean energy and building energy infrastructure that's reliable and affordable.</p> <p>We expect that our investments in emissions-free wind and solar generation, innovative battery storage technology, low-emissions natural gas generation, safe and emissions-free nuclear power, industry-leading energy efficiency programs and transmission lines designed to deliver energy where it's needed when it's needed will enable us to continue providing a wide range of benefits to our many valued stakeholders.</p> <ul style="list-style-type: none">» From 2019-2030, FPL plans to install more than 30 million solar panels – resulting in more than 10,000 new megawatts of solar in Florida.» From 2019-2022, NEER expects to bring online an additional 3,800 to 7,300 megawatts of clean, emissions-free solar energy.» Our capital investments also will help us meet our goal of reducing our carbon dioxide (CO2) emissions rate 67% by 2025 from a 2005 baseline. |
| <div><div>9</div><div>INDUSTRY, INNOVATION AND INFRASTRUCTURE</div><div></div></div> | <p>As one of the largest electric power and energy infrastructure companies in North America and a leader in the renewable energy industry, NextEra Energy is committed to building a sustainable energy future that is affordable, reliable and clean.</p> <p>By investing in smart infrastructure and innovative clean energy solutions, we are helping to build a sustainable energy future that is affordable, reliable and clean.</p> <ul style="list-style-type: none">» Over the past decade, we have invested ~\$100 billion in infrastructure capital deployment, making us the largest U.S. infrastructure investor in the energy industry and one of the largest capital investors across any industry in the U.S. over this period. |

NextEra Energy
SDGs as part of
SASB

MECHANICAL INSULATION IS IN A GOOD PLACE

45% OF GREENHOUSE GAS EMISSIONS ARE IN OUR SPACE



Source: U.S. Energy Information Administration (EIA), 2020
<https://www.eia.gov/environment/emissions/carbon/>
Due to rounding, the percentages shown exceed 100%.

6,000,000 commercial buildings
24,000 high schools and 5,000 colleges
6,000 hospitals (which average 13 miles of pipe)

AS TEMPERATURE DELTA INCREASES, MECHANICAL INSULATION SHINES!

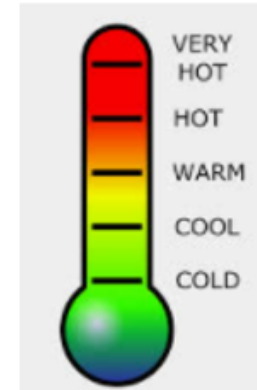


Room Temperature = 32F
Size = 2400ft² (12' x 200' x 8')

Adding 4" of Insulation delivers
big returns

High Oven Temperature 400F
Insulations Saves
~\$85,000/yr vs uninsulated case*
CO₂ savings – 896 MT (985T)
147,000 gallons of gas

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Low Oven Temperature 70F
Insulations Saves
~\$4300/yr vs uninsulated case*
CO₂ savings – 45 MT (50T)
7,400 gallons of gas

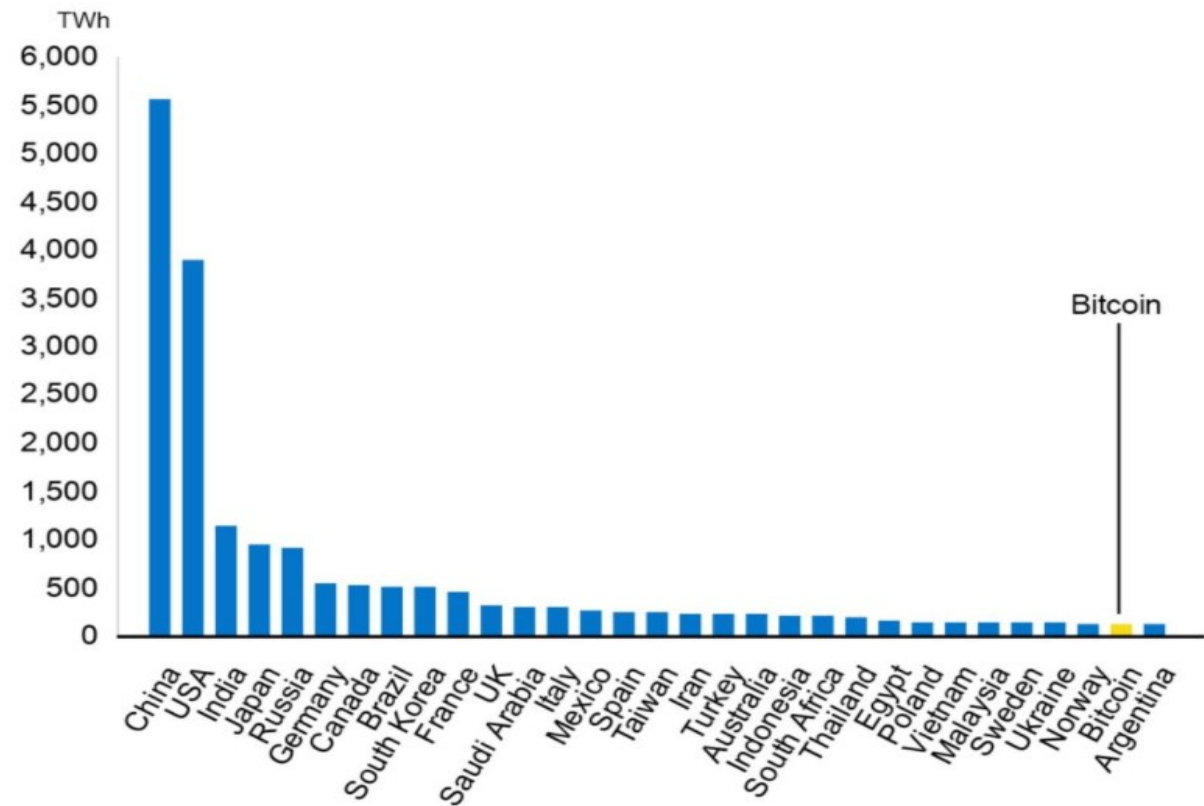
Return on investment increases exponentially as oven temperature increases

BITCOIN MINING—BIG ENERGY HOG (OPPORTUNITY)

- When bitcoins are traded, computers across the globe race to complete a computation that creates a 64 digit number for that bitcoin.
- The computer that solves the computation first gets a reward of 6.2 bitcoins or about \$250,000 at the current prices.
- One bitcoin transaction takes 1,544 kWh (53).
- About 25% of bitcoin mining is in the USA.

Bitcoin uses more energy than Argentina

If Bitcoin was a country, it would be in the top 30 energy users worldwide



National energy use in TWh/h

Source: University of Cambridge Bitcoin Electricity Consumption Index

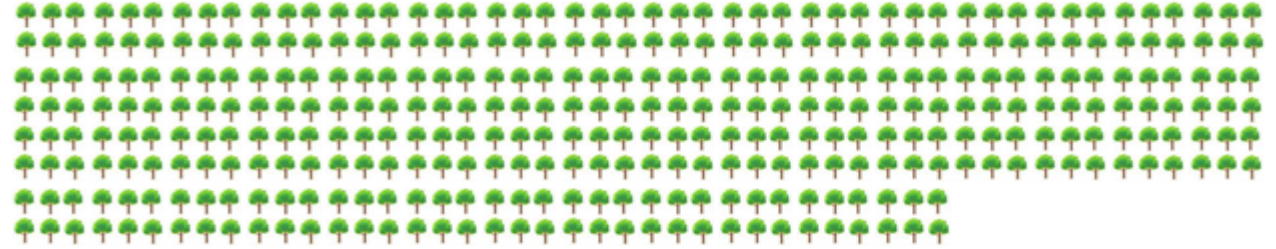
OFFSETTING CO2 EMISSIONS—INSULATION IS THE OBVIOUS CHOICE



One full size pickup truck⁽¹⁾ that is driven 20,000 miles emits approximately 18,000 lbs of CO₂.

How can we offset the emissions from one pickup truck?

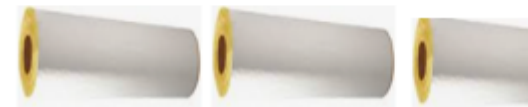
We could plant 360 trees⁽²⁾



We could replace 131 sixty watt incandescent light bulbs with LED light bulbs⁽³⁾



Or we could insulate approximately 8' of bare 4" pipe operating @ 350F with 2" of insulation ⁽³⁾



⁽¹⁾ 2021 Ford 150 2.7 L pick up emits 406 grams of carbon per mile. Source – EPA Fuel economy and greenhouse gas emissions sticker on truck

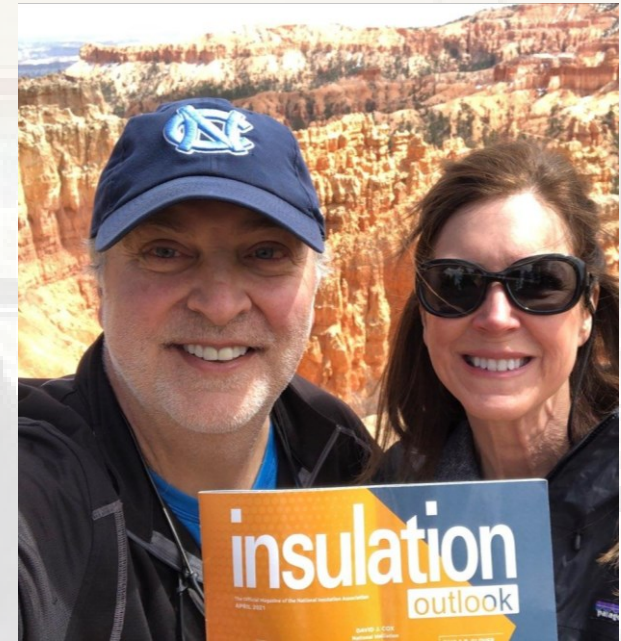
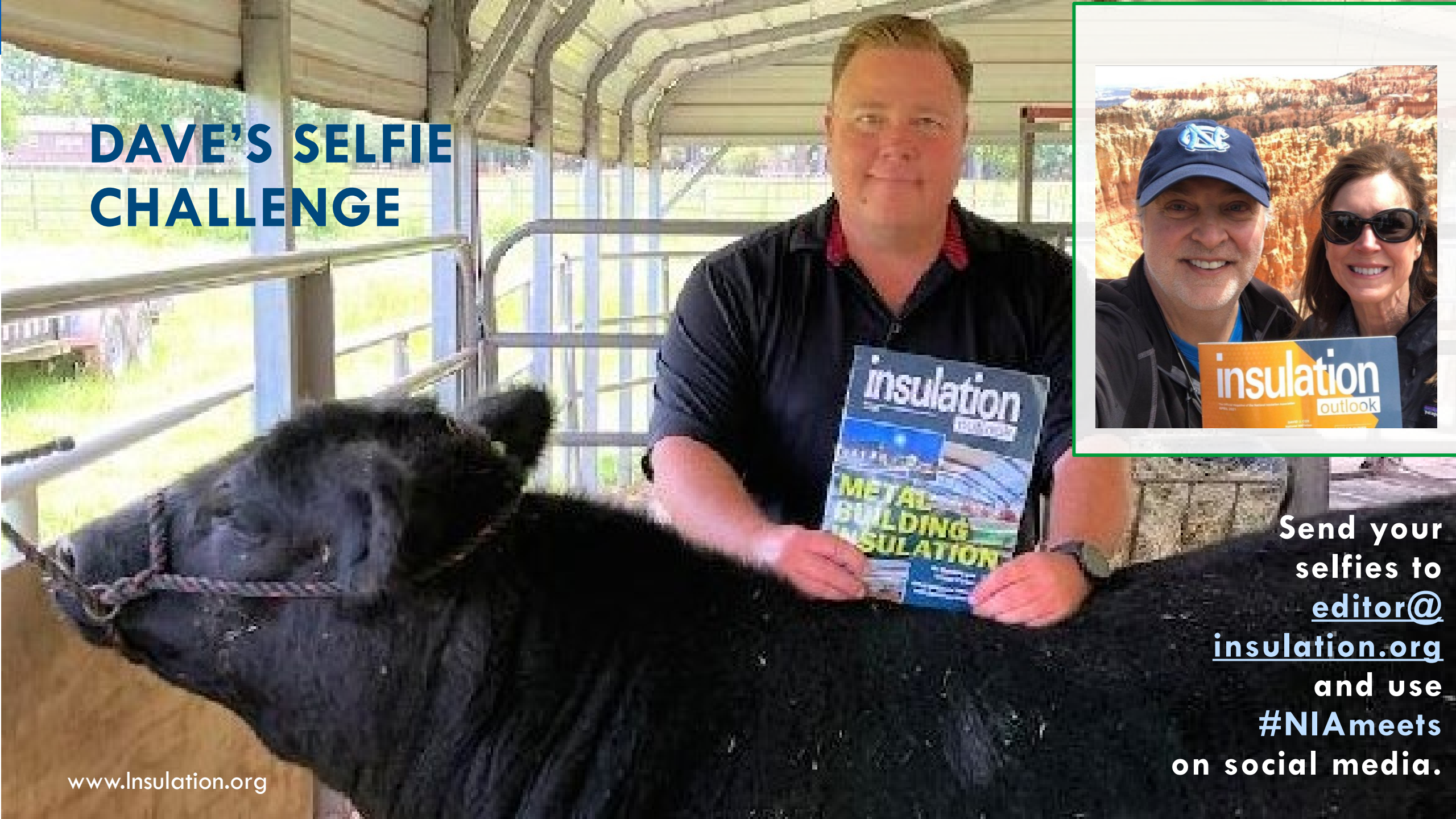
⁽²⁾ <http://www.tenmilliontrees.org/trees/> Typical tree on average saves 50 pounds/yr of CO₂

⁽³⁾ Crall, C.P., Insulation: Greener than Trees. Insulation Outlook, Jan 2009

WHAT IS NIA DOING? OUTREACH & AWARENESS

- Relatable DATA: www.epa.gov/energy/greenhouse-gas-equivalencies-calculator
- Media and Industry Outreach:
 - Mellanie Askew (Coverflex) in the news.
 - Reaching out (editors, magazines, reporter) Mario Diaz, Mary Powers, Rod Walton & BIC
 - CURT & CII (joining forces with aligning orgs)
- Company and Social Conscience
 - Purpose over profit
 - Develop carbon offsetting opportunities. Ex. cooleffect.org
 - Foundation for Mechanical Insulation Education, Training & Industry Advancement
- **Classes:** Thermal Insulation Inspector Certification, Insulation Energy Appraiser Program/Certification, and Specification Courses

DAVE'S SELFIE CHALLENGE



Send your
selfies to
[editor@
insulation.org](mailto:editor@insulation.org)
and use
#NIAmeets
on social media.

SELFIE TIME!

Together for Tomorrow!

#NIAmeets