Zero Energy and Zero Carbon

- Building policy increasingly driven by Carbon Policy
- Definitions of ZE and ZC – finding consistency and accuracy
- Certifications and verifications for ZE and ZC buildings
- Carbon as a motivator - international/global, national, state/province, local and between private/government

NBI: Three Pathways to “Zero” Codes

Zero Energy Construction Code: This is an energy code strategy where projects are required to demonstrate that submitted building plans are designed to achieve a zero energy outcome.

Zero Energy Outcome Code: This is a building energy policy requiring buildings to demonstrate net zero energy use based on measured building performance outcome.

Zero Carbon Code: There are two facets focused on the reduction of carbon emissions.
   a) Phase-out of building-level combustion
   b) Move from energy cost/site/source metrics to GHG emission metrics
Arup: Potential for Climate Action

Figure 2.04. Sector breakdown of first priority actions.

- 450 MtCO₂e
- could be saved by 2050 if the highest priority actions were implemented.

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BUSINESS INSIDER

A group representing $6.2 trillion of the US economy says they're 'still in' the Paris climate agreement

- 9 States
- 21 Counties
- 217 Cities
- 323 Higher Education Institutions
- 1697 Businesses & Investors