

# Gunnison County Goals

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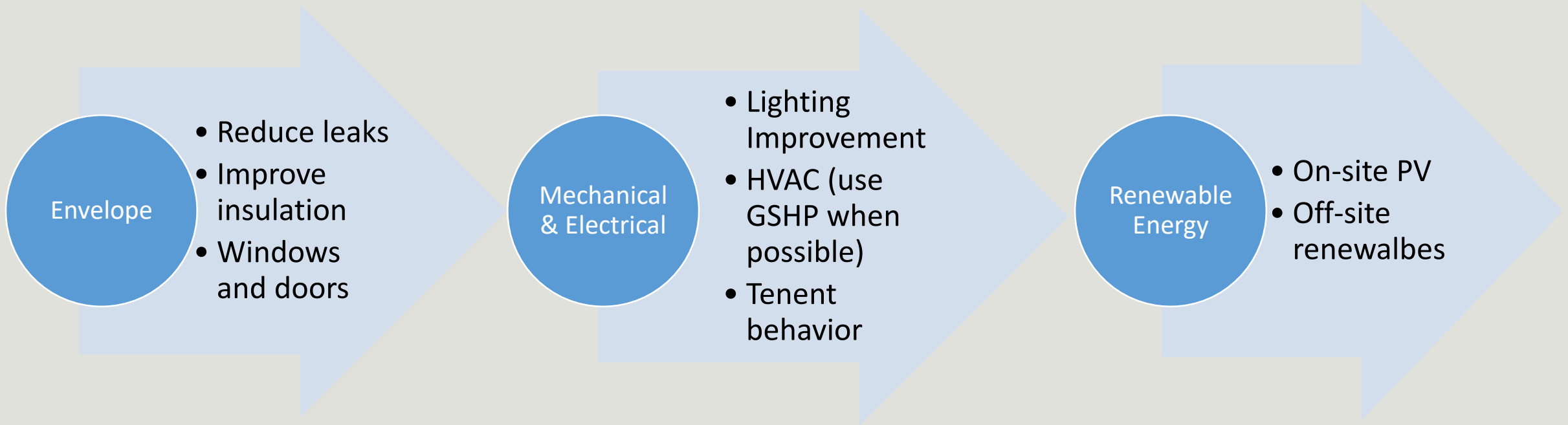
Lower Greenhouse Gas Emissions by 20% from 2005 levels by 2030

Reduce Energy use in county owned facilities annually

Achieve 3<sup>rd</sup> party certification on facilities

# Incremental Steps using a Variety of Funding Strategies including EPC

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Through the use of energy performance contracts, new building construction, and renovations/ equipment replacements the County is intentionally moving all of our buildings through these steps.

## Major steps

2014- New construction of Courthouse with energy efficiency as major goal. All electric GSHP. **Realized Site EUI = 33**

2018-Renovation of Human Services Building utilizing 40% energy impact grant funding, included HVAC replacement. All electric GSHP. **Realized Site EUI = 30 (down from 118)**

2020 – **EPC phase 1** PV arrays on 6 County sites including all-electric buildings: Courthouse and Human Services **Will lower GHG impact and Source EUI**

2020 – **EPC phase 2** Energy performance contract for HVAC upgrade at Blackstock Government Building. Planned GSHP system. **Targeted Site EUI= 40 (currently 78)**

2022-Major renovation and additions to Airport Terminal with energy efficiency as major goal. **Targeted Site EUI= 30**

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## **Funding Strategies**

- Energy Performance Contracts
- Certificates of Participation (Bonding)
- Capital budgeting and regular replacement cycles (lifecycle asset management)

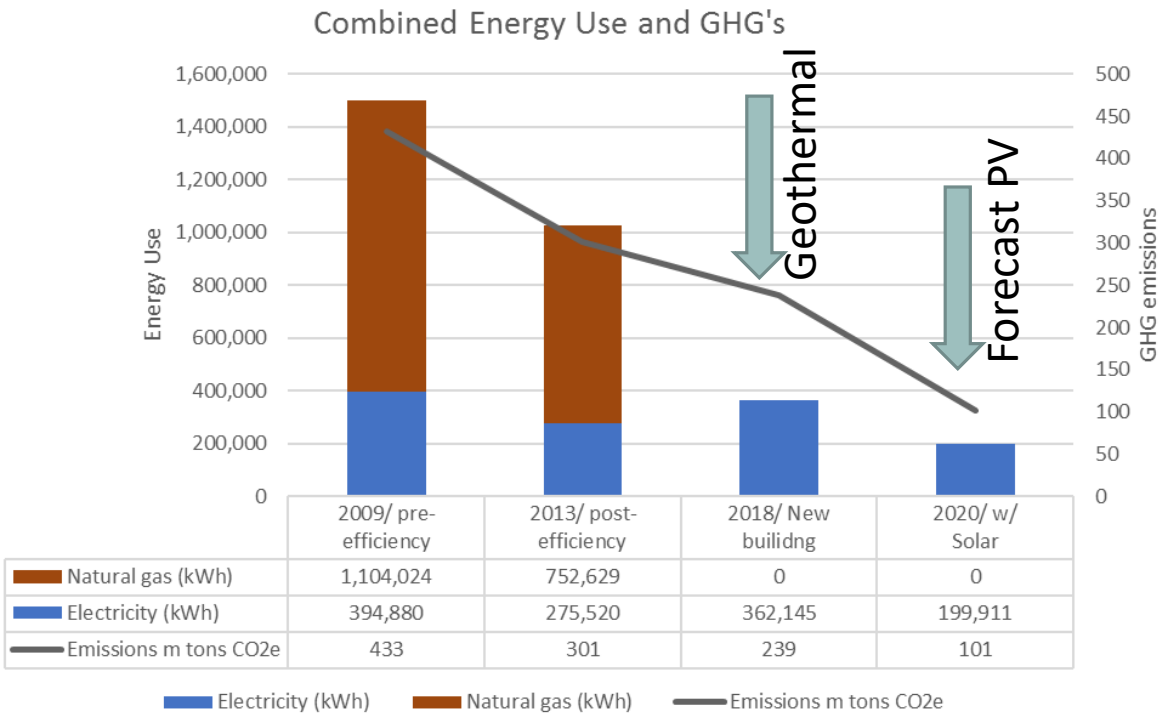
## **Policy choices**

- Philosophical choice; we want more efficient/ green buildings
- Re-investment of energy savings; track savings and reinvest in efficiency
- Added value through lower maintenance costs, increased comfort, redundancy, image.  
(quantify/ estimate where possible)

# Incremental Steps Lead to Substantial Results Over time

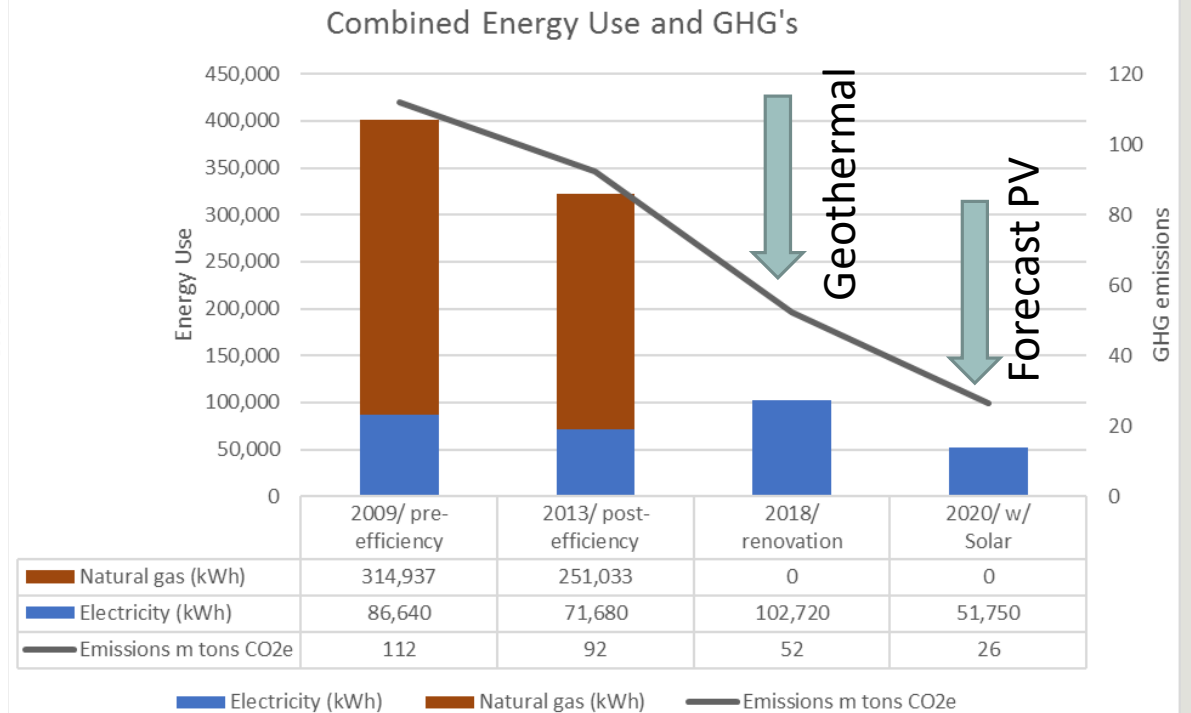
## Courthouse

New construction 2015



## Health and Human Services

Renovated 2018



# Gunnison County Photovoltaic Project –Current EPC

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-Approximately 300 kW(dc) of solar across 6 buildings:

Courthouse, Blackstock Government Building, Health and Human Services Building, Public Safety Center, Public Works, and the Recycle Center

(added 1 building and 20-25 kW since application)

-Will reduce greenhouse gas emissions by 250 metric tons per year

# Cost Savings not as Large as Energy and Greenhouse Gas Savings

- Electric (used for geothermal) is more expensive than gas for equivalent energy
- Adding PV will significantly reduce electric costs
- Energy demand matches PV production/ No need for generous utility net-metering policies to realize savings

## Courthouse

