

**Pecan Street Project Inc.**



# The Pecan Street Project

The Pecan Street Project is a collaboration of –

- Austin Energy
- University of Texas
- Environmental Defense Fund
- Greater Austin Chamber
- City of Austin
- **technology advisory committee**

ERCOT • Bluebonnet Electric Coop

CPS Energy San Antonio • Pedernales Electric Coop



# The Pecan Street Project

an open platform **Energy Internet**

integrating

distributed solar

smart grid water

demand response

electric vehicles

energy storage

dynamic pricing

smart appliances

green building

built on Austin's advanced smart grid platform



# The Pecan Street Project

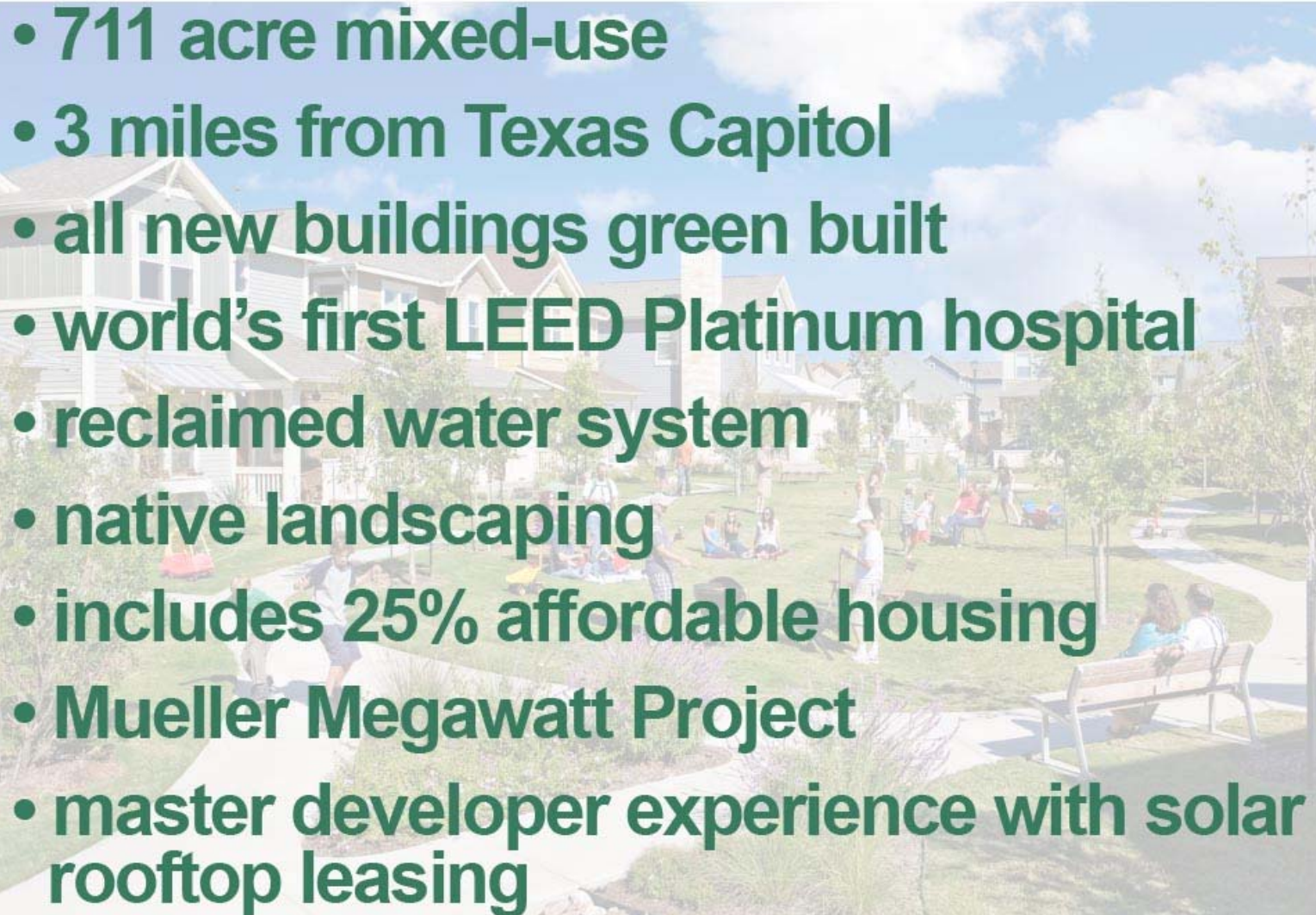
## Why Mueller...





# The Pecan Street Project

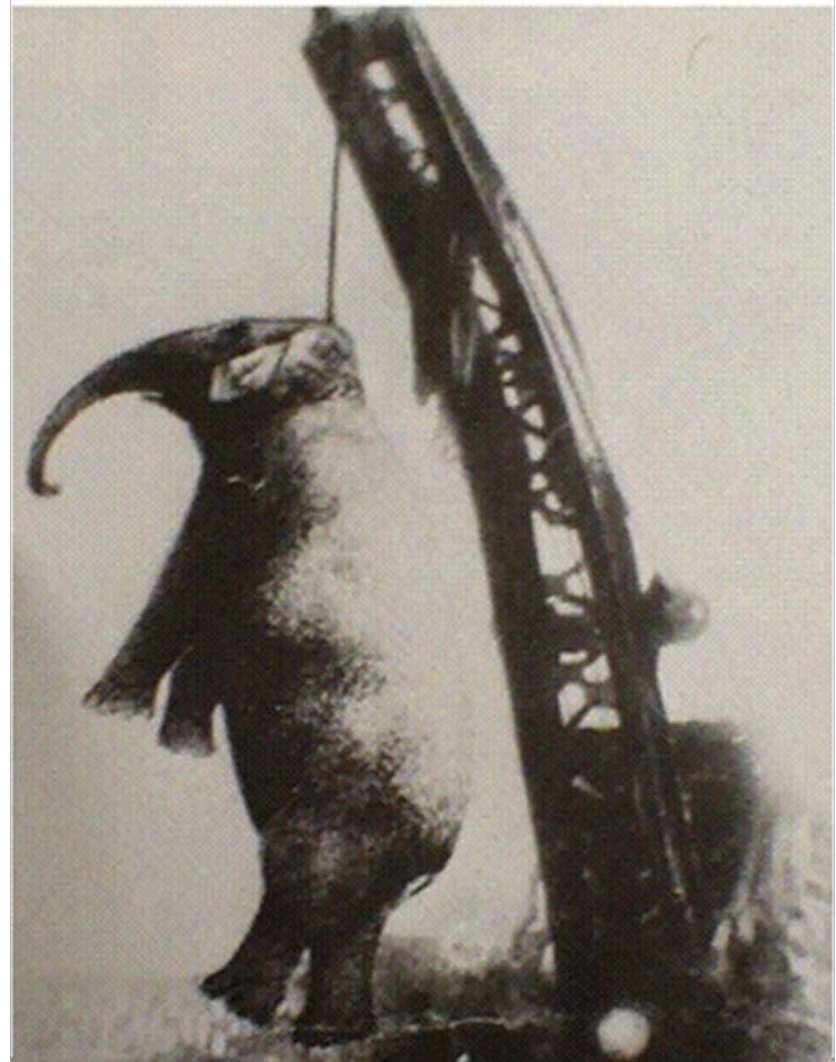
## Mueller

- 711 acre mixed-use
  - 3 miles from Texas Capitol
  - all new buildings green built
  - world's first LEED Platinum hospital
  - reclaimed water system
  - native landscaping
  - includes 25% affordable housing
  - Mueller Megawatt Project
  - master developer experience with solar rooftop leasing
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# The Pecan Street Project

demonstration  
project  
approaches





# The Pecan Street Project

demonstration  
project  
approaches

How we will do it

Innovate on **utility side of meter**

**Solar** on 4 commercial rooftops

**Utility-scale batteries** in 4 locations

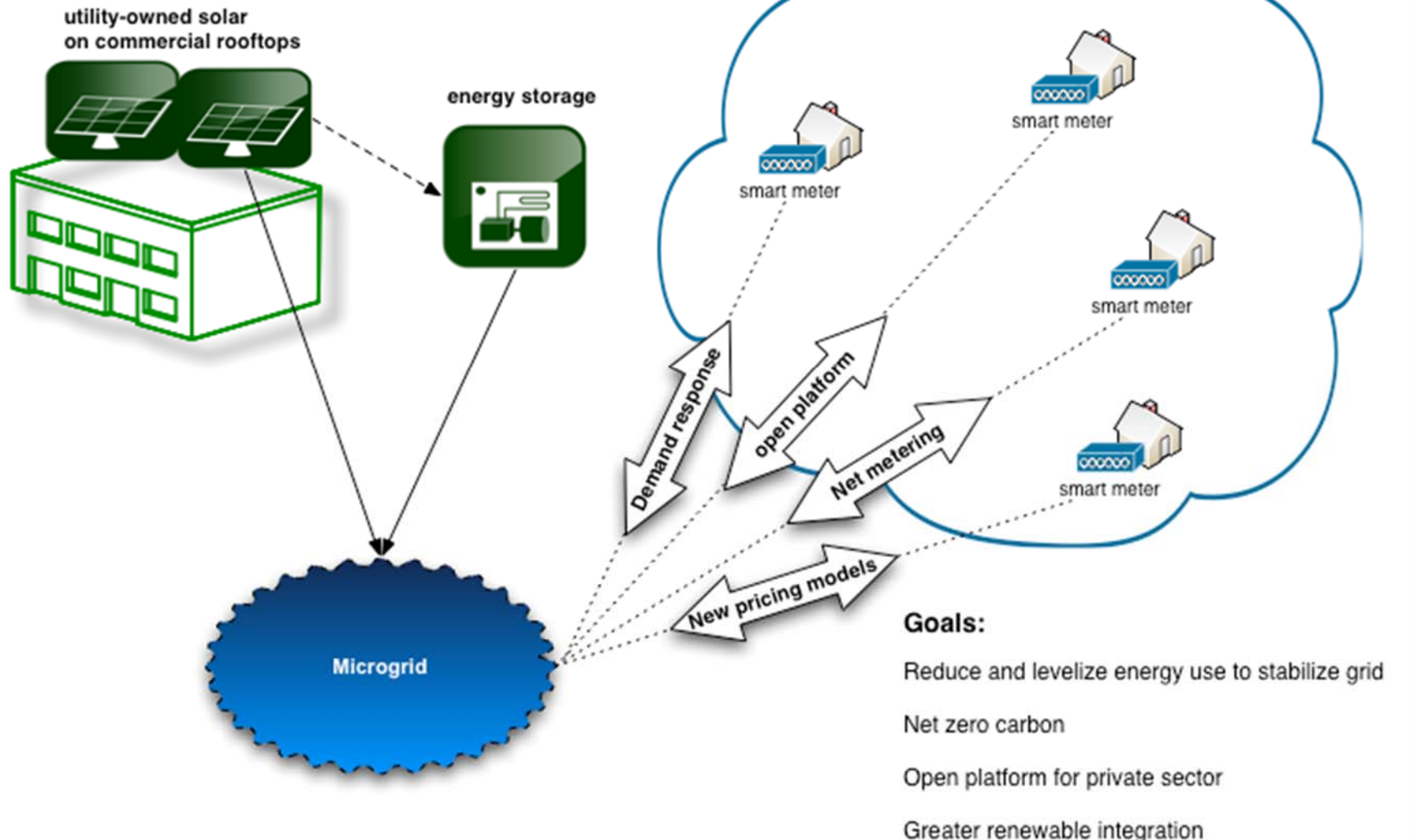
**Advanced software** to manage grid

Dynamic pricing

New business model

# The Pecan Street Project

## Pecan Street smart grid approach utility-side







# The Pecan Street Project

demonstration house

demonstration  
project  
approaches

How we will do it





# The Pecan Street Project

demonstration  
project  
approaches

How we will do it

Innovate on **customer side of meter**

**Home area networks** in 1,000 residences

**Green building** and efficiency

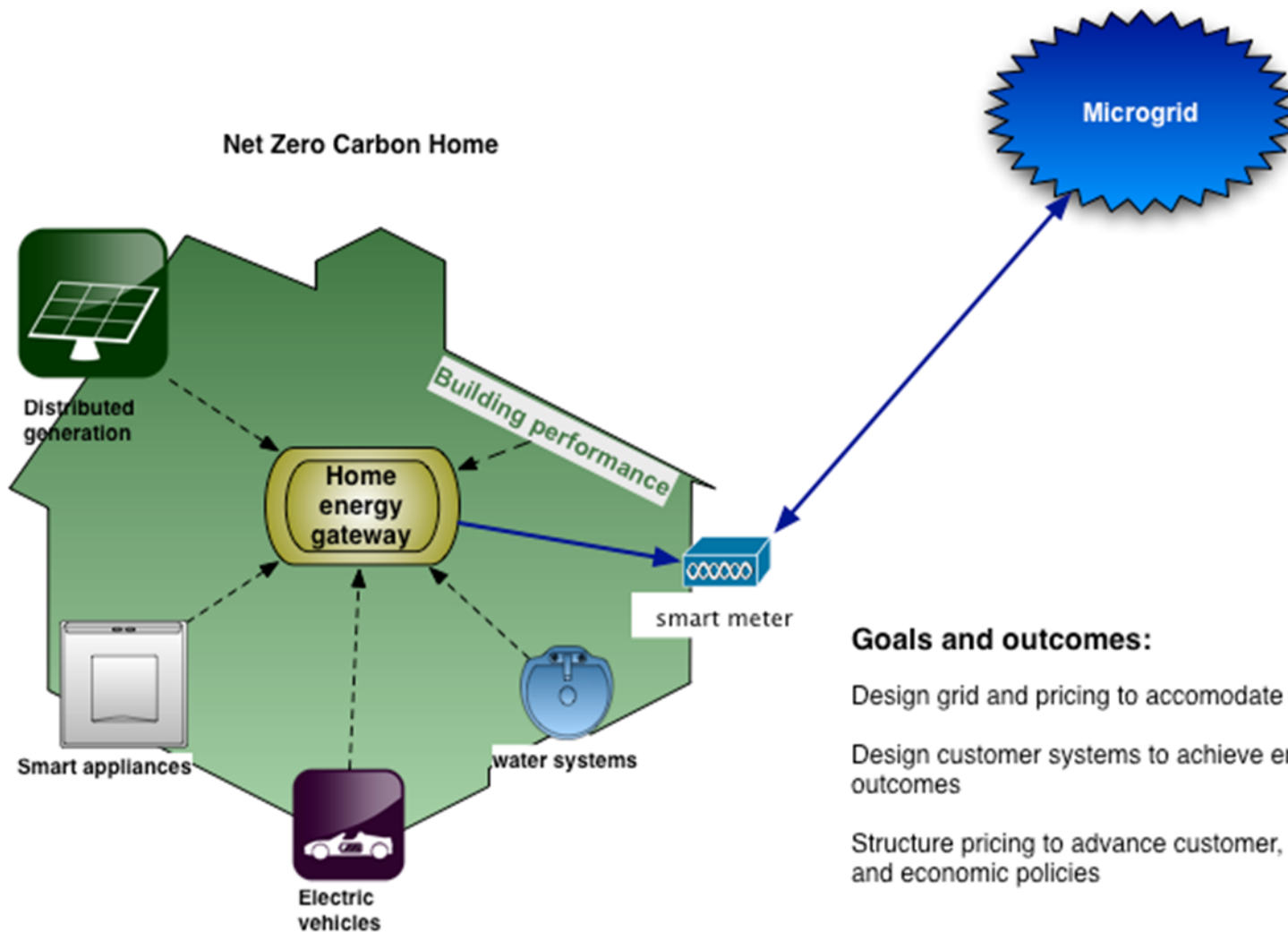
**Solar** on residential rooftops

**Smart grid water** and sprinklers

**Smart appliances**

# The Pecan Street Project

Pecan Street smart grid approach  
customer-side





# The Pecan Street Project

Integrate **electric vehicles**

demonstration  
project  
**approaches**

How we will do it



in **homes**

in **commercial garages**



# The Pecan Street Project

demonstration  
project  
approaches

How we will do it

business model and technology  
commercialization

Test different **pricing  
structures** and **technology  
integrations**

**Net metering** with decoupled  
pricing

**Grid testing** opportunities for  
private sector



# The Pecan Street Project

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next steps...

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*Late April*

**select Mueller resident  
for project executive  
committee**

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# The Pecan Street Project

next steps...

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*next 60 days*

**seek input** from  
private sector on what  
to test

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# The Pecan Street Project

## next steps...

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*next 60 days*

**seek input** from private sector on what to test

*early June*

Request for **proposals**:

- technology suites to test
- pricing models

Opportunity for private sector to collaborate

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# The Pecan Street Project

demonstration  
project  
proposals

**transformative** approaches

- pricing models
- technology integration
- clean energy app store

opportunity for **collaboration**  
and **data sharing**

opportunity to **test ideas** on  
**actual grid** with **actual**  
**customers**

# The Pecan Street Project

demonstration  
project  
proposals



opportunity to **test ideas** on  
**actual grid** with **actual**  
**customers...?**



# The Pecan Street Project

demonstration  
project  
proposals

demonstrate **environmental  
superiority**

advance **public interest**



# The Pecan Street Project

## How Pecan Street is different

- **Open platform for private sector**
- **Integration of water**
- **Environmental focus**





# The Pecan Street Project

## **Pecan Street Project Inc.**

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