

#### Welcome to Goshen, Indiana

Population: 33,034 humans







Americans waste around

#### 411 pounds of food

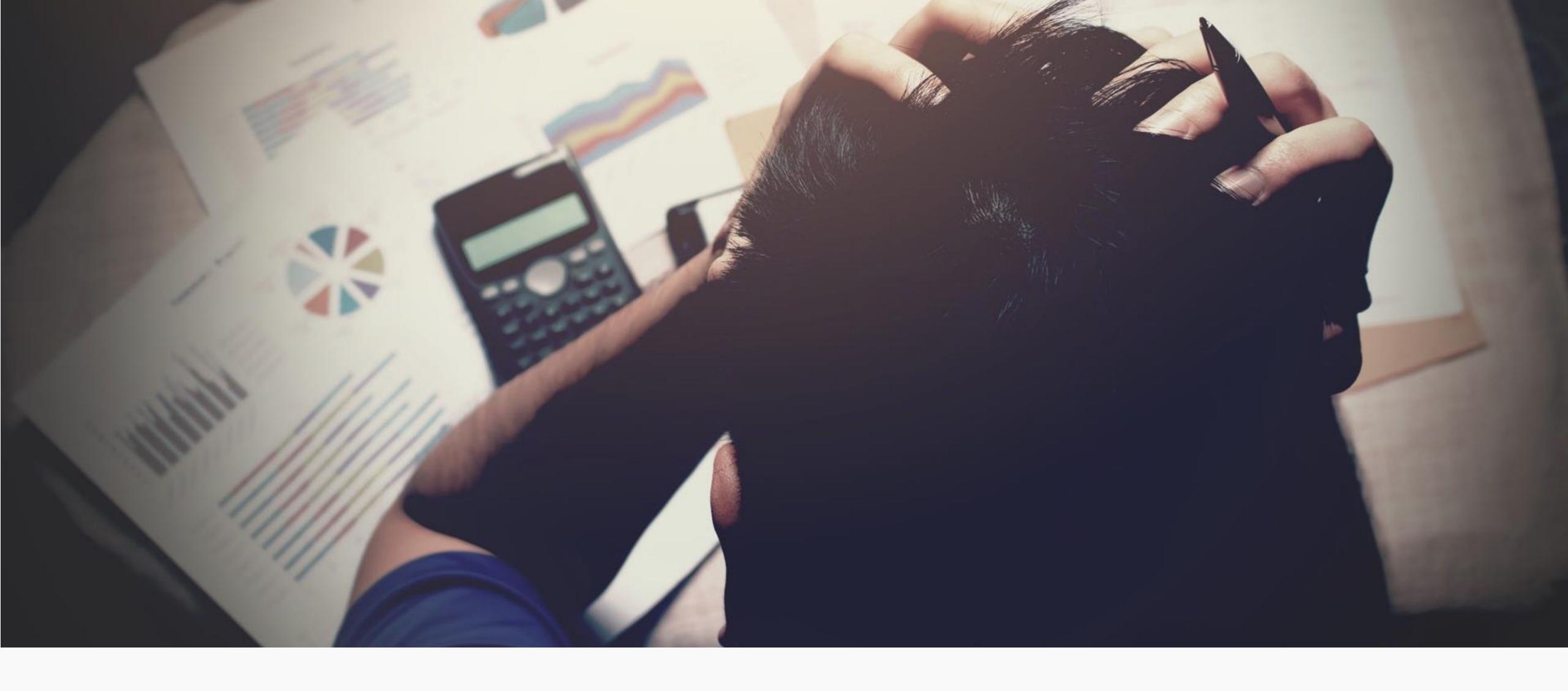
per person every year.

And the average cow produces

140 pounds of manure

every single day.





Handling all that waste can be a major expense and a big headache.

# That's why Green Cow Power & DVO Inc built an anaerobic digester



GREEN COW POWER & DVO KNOW

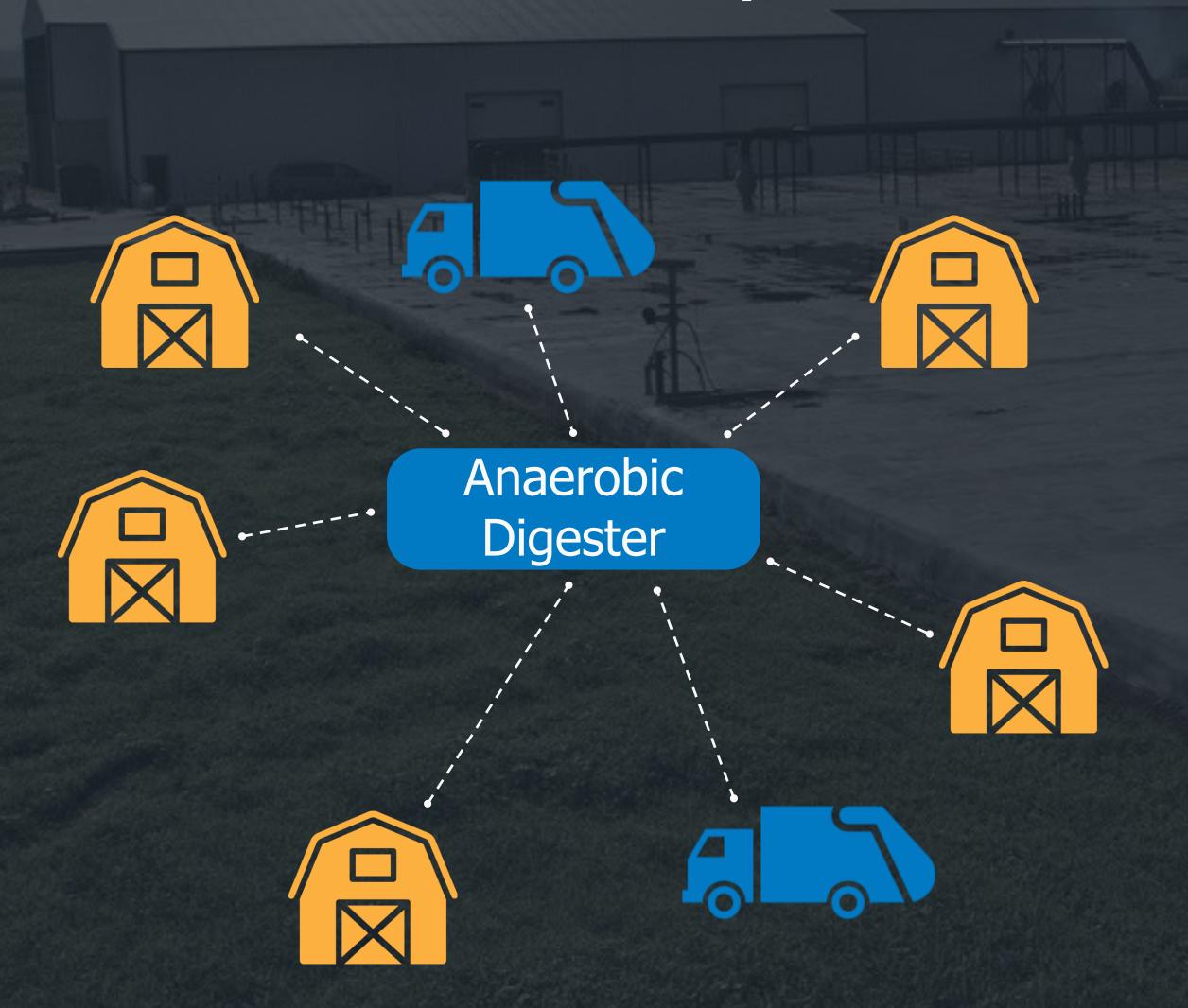
#### ANAEROBIC DIGESTERS

CONVERT FOOD WASTE & MANURE TO

### BIOGAS AND ODORLESS FERTILIZER



#### Green Cow Power partnered with



local businesses to collect

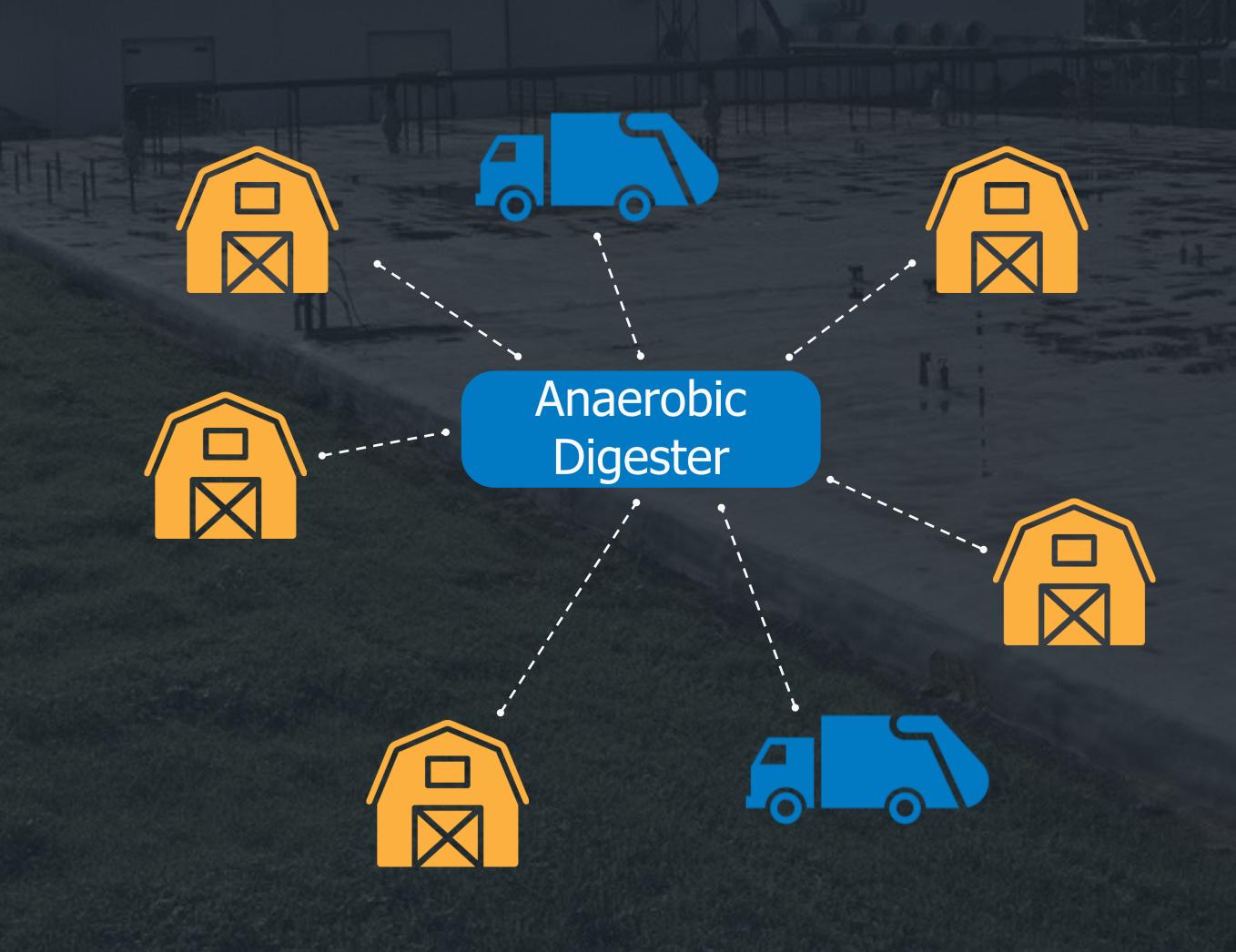
food waste

and with five dairy farms

to send manure

to their digester.

#### We call this a hub and spoke model.



The manure is pumped through a set of

underground pipes.





While the

#### food waste

is trucked in each day.



The combined manure and food waste produce enough biogas to generate

3.15 MW of Electricity.

ENOUGH TO POWER

HOMES FOR ONE YEAR.

THAT'S 16%

OF ALL THE HOUSEHOLDS IN

GOSHEN.





Biogas also heats water...



Some of that water regulates the

#### digester's temperature

keeping it operating year-round.





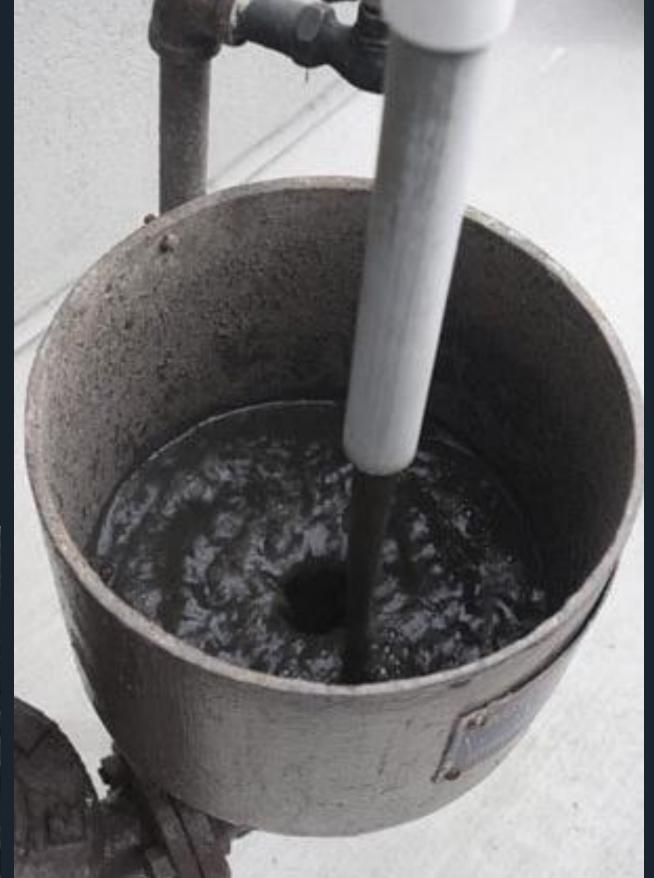
The rest gets pumped back to each farm to

#### heat barn floors

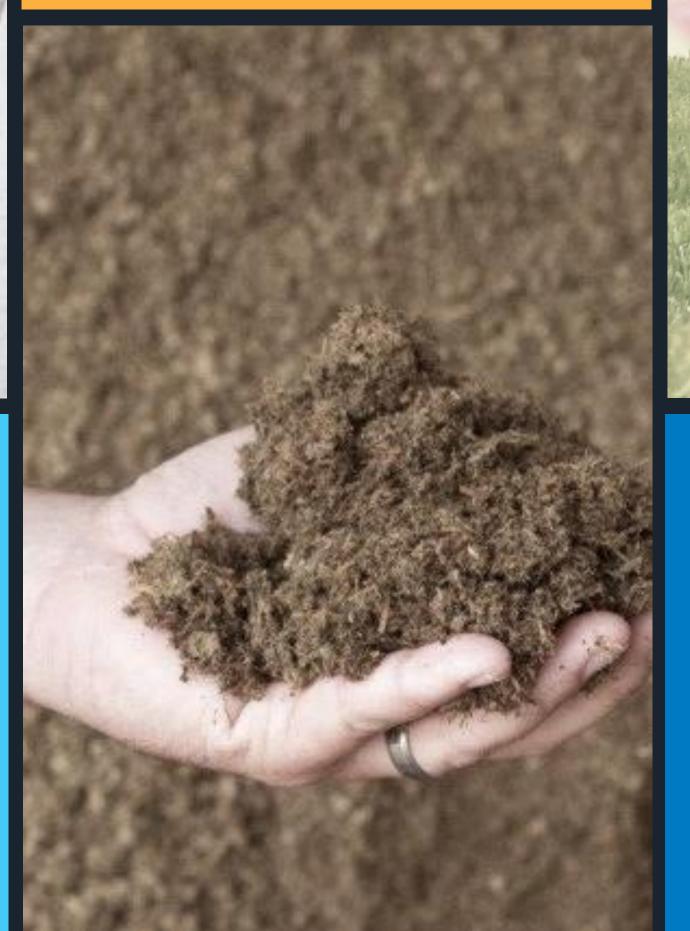
which keeps cows warm in the winter.

And biogas isn't the only product of anaerobic digestion.





solids, which the farms use for animal bedding...





The remaining sludge is separated into...

and liquids, which they use as high-quality fertilizer



The system even allows for

#### phosphorus recovery

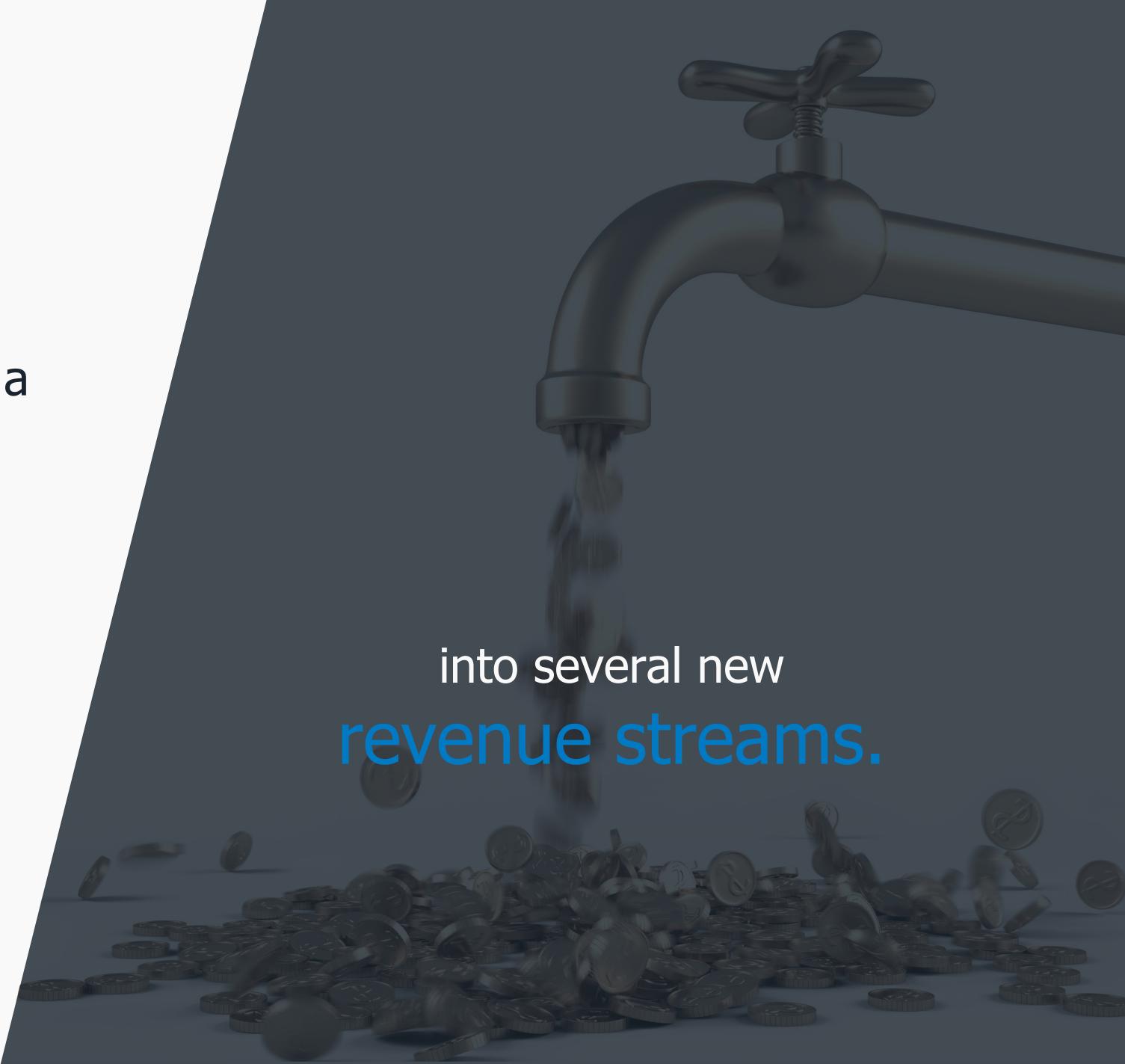
to be used on the farm or sold.

## The hub and spoke model

gives Green Cow Power the scale to offset costs

Turning waste management from a

cost center



#### The design has even won several awards.

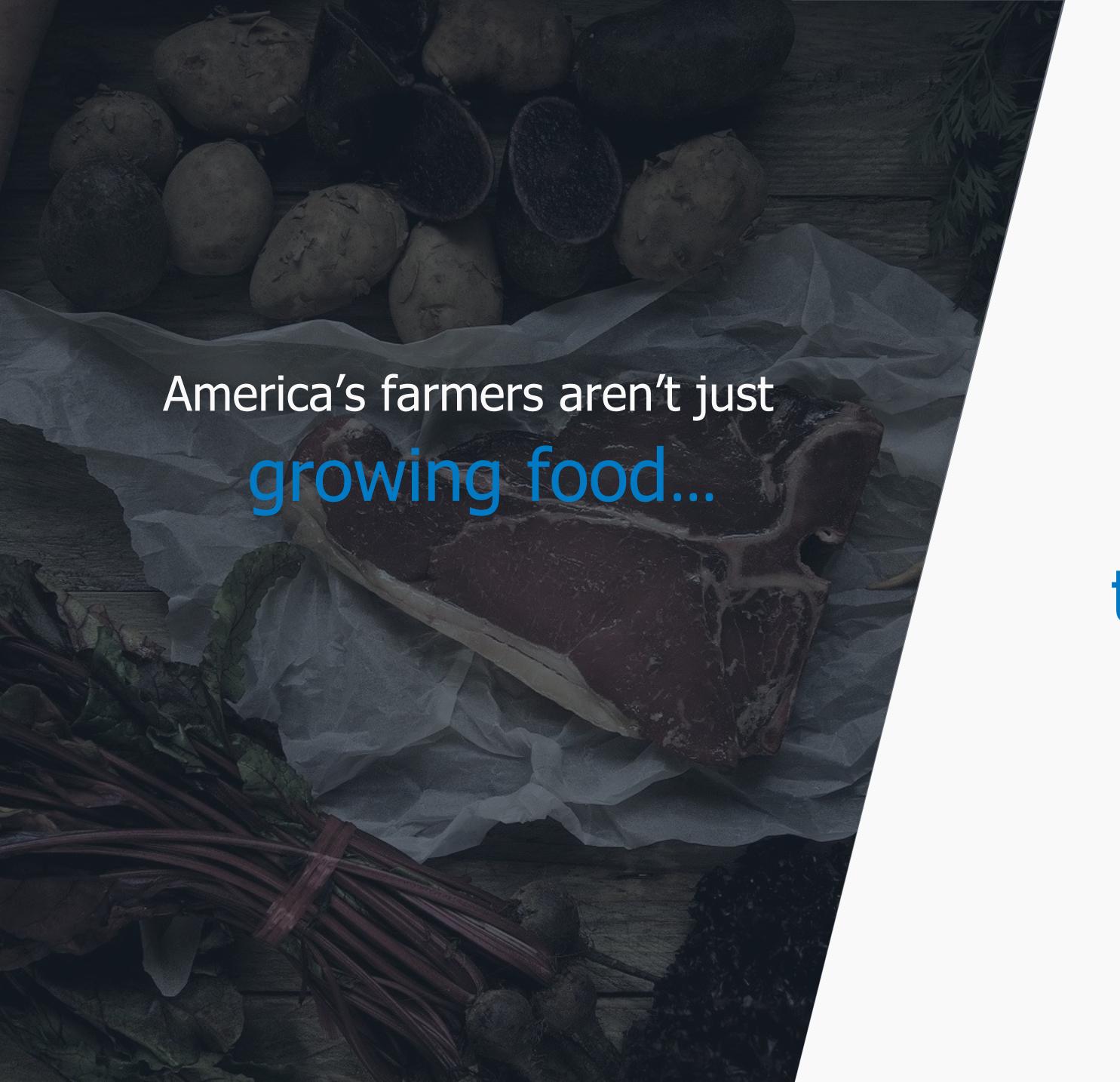
Michiana Area Council of Governments
2016 Clean Air Awards

Partners for Clean Air Award





American Biogas Council 2015 Biogas Industry Awards *Agricultural Project of the Year* 



they're growing the economy.



