



Source: NASA

COMMUNITY INPUT SESSION

JANUARY 30, 2020



TODAY'S DISCUSSION



Topics to Cover

- Opening Remarks - Mayor
- What are Greenhouse Gases?
- Local Climate Impacts
- Other City Examples
- Considerations for Lafayette
- Public Comment

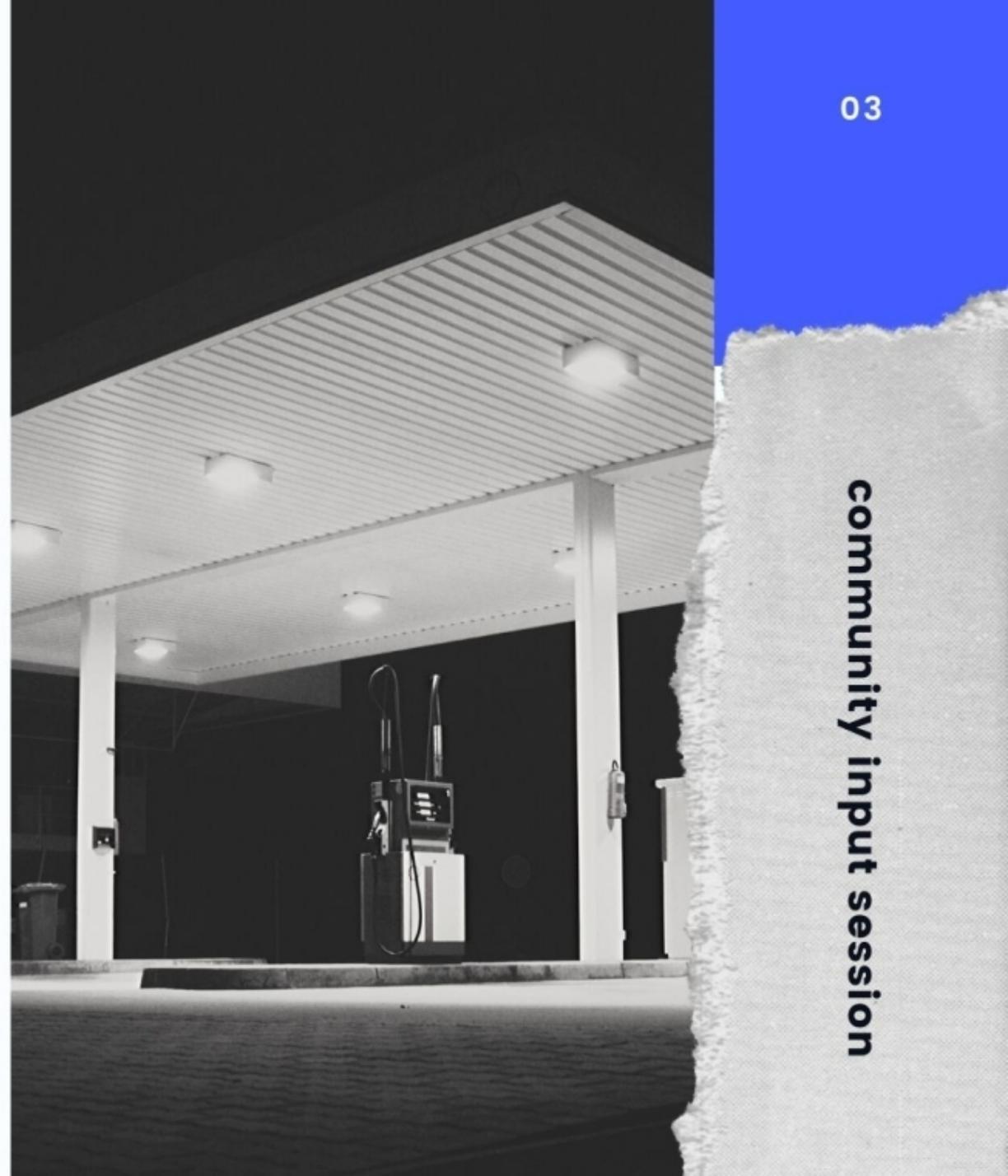


OPENING REMARKS



MAYOR ROSWARSKI

WHAT ARE GREENHOUSE GASES?



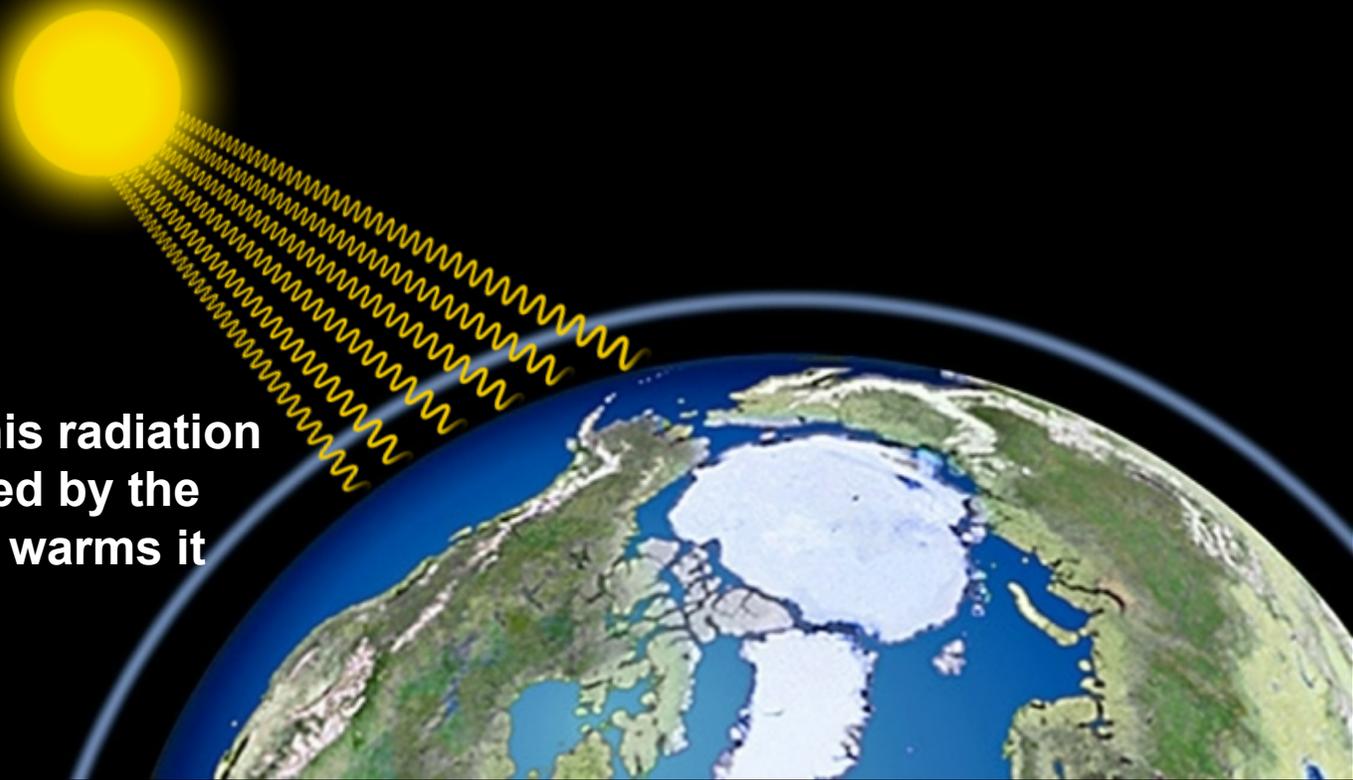


Source: NASA

**Solar radiation
in the form of
lightwaves
passes through the
atmosphere**



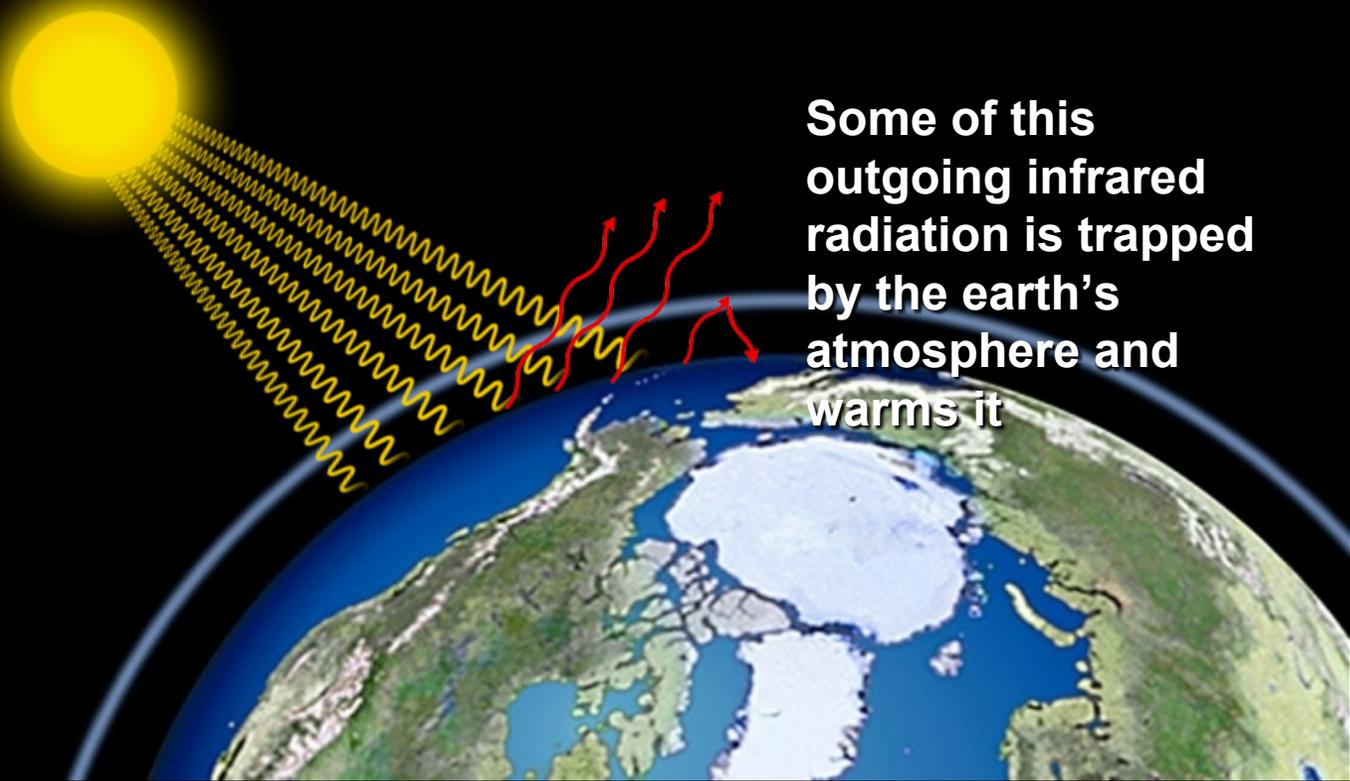
**Most of this radiation
is absorbed by the
Earth and warms it**



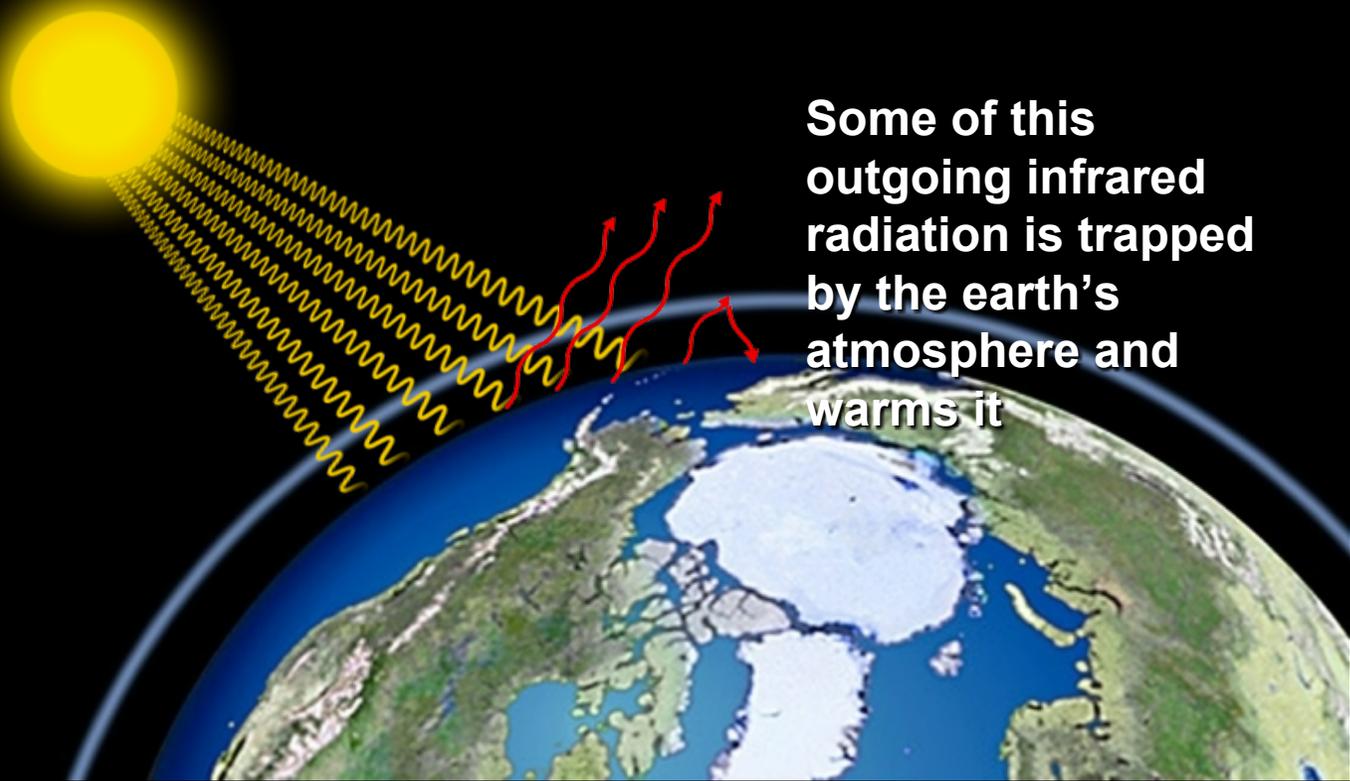


Some energy is radiated back into space by the earth in the form of infrared waves

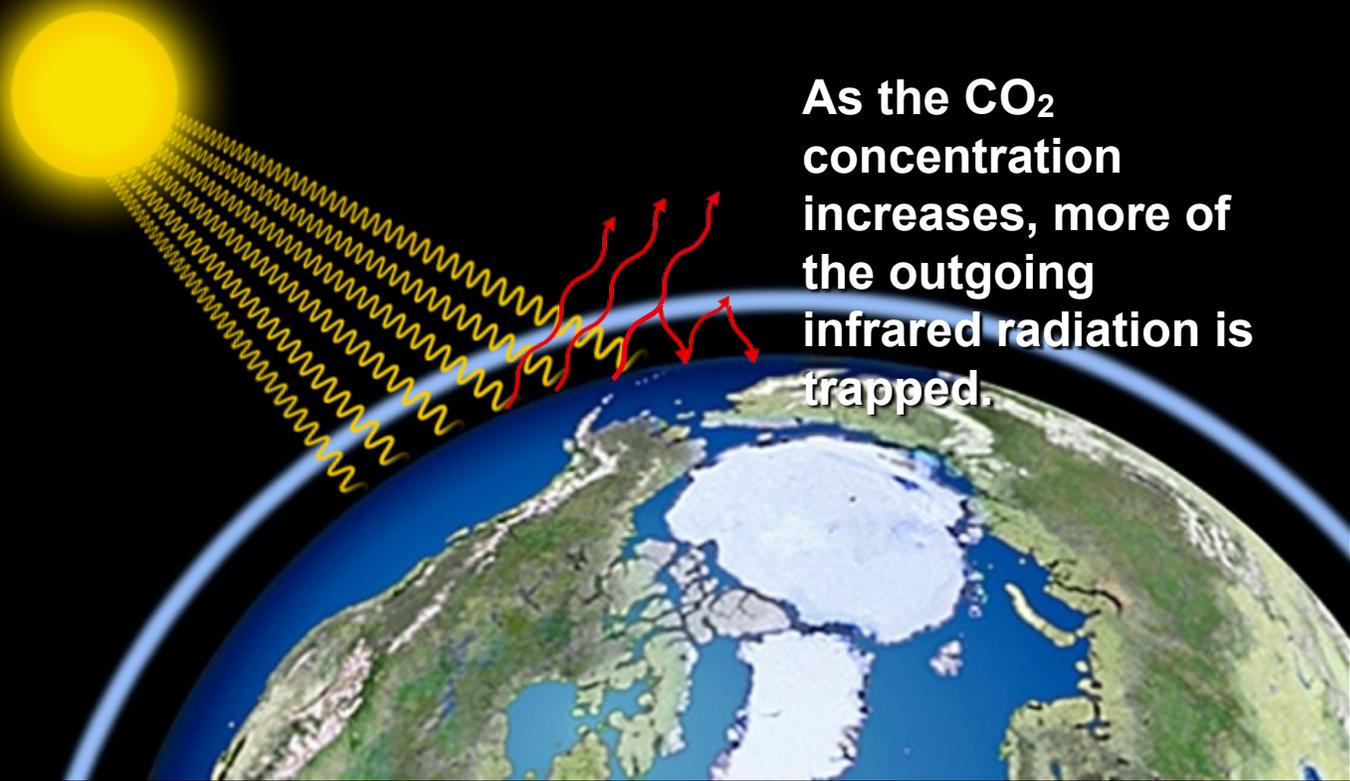




**Some of this
outgoing infrared
radiation is trapped
by the earth's
atmosphere and
warms it**



**Some of this
outgoing infrared
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As the CO₂ concentration increases, more of the outgoing infrared radiation is trapped.



THAWING PERMAFROST

COAL MINING

COAL PLANTS

INDUSTRIAL PROCESSES

AIR TRANSPORT

OIL PRODUCTION

FERTILIZATION

LAND TRANSPORT

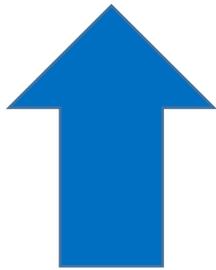
LANDFILLS

INDIANA CLIMATE CHANGE IMPACTS
ASSESSMENT ON:

LOCAL
IMPACTS

Precipitation
Temperature
Seasonal Shifts

Some seasons will get wetter



WINTER: 16 to 20% increase

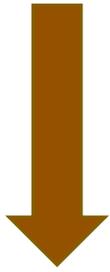
SPRING: 13 to 16% increase

- Ø More falling as rain, not snow
- Ø Expecting more runoff & higher streamflow

Projected changes are for mid-century under a high & moderate emissions scenario

#INCCIA

Some seasons will get drier



***Summer & fall* show slight declines,
with less certainty in the projections**

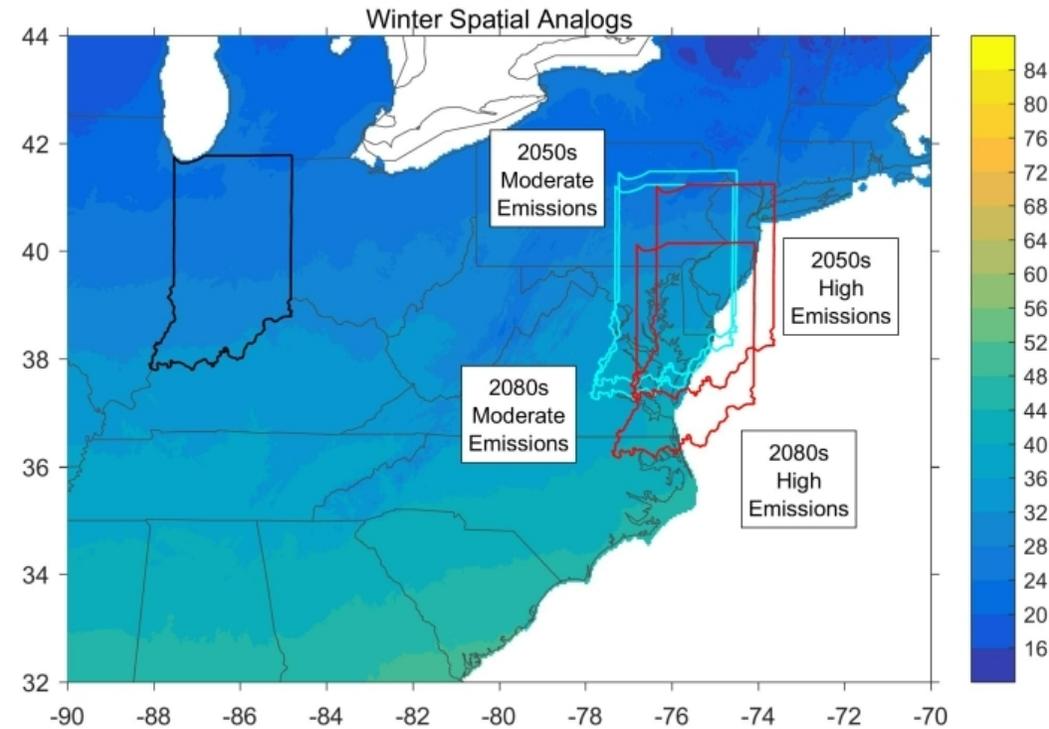
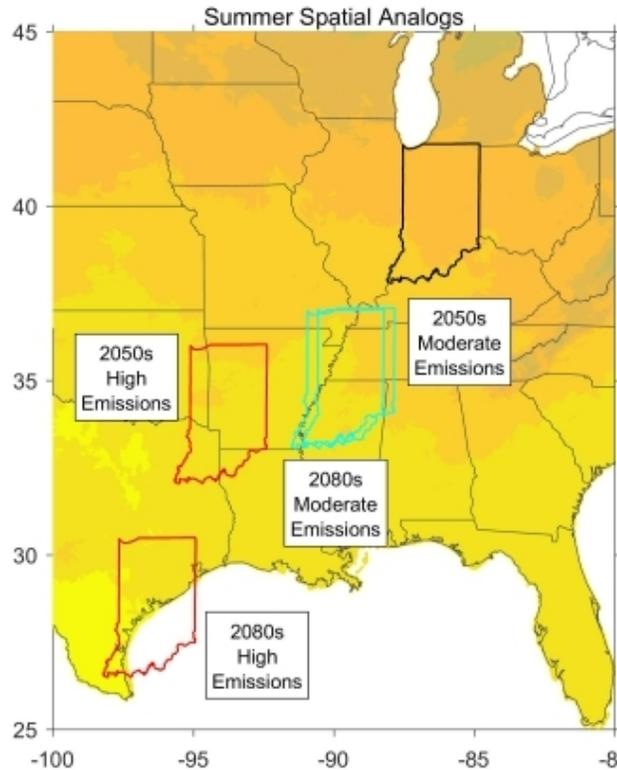
- Ø Increased water demand from added heat
- Ø Decreased streamflow

Projected changes are for mid-century under a high & moderate emissions scenario

#INCCIA

Seasonal Analogs

Based on seasonal average temperature and precipitation



Statewide Average

2050s represents average from 2041 to 2070

2080s represents average from 2071 to 2100

Base map shows 1981 to 2010 average seasonal temperature from PRISM archive

We have some great examples here in Indiana!

OTHER CITY EXAMPLES



GOSHEN AND GHG INVENTORY



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2019 - ISDP PROGRAM EXTERN

Performed a Greenhouse Gas Inventory

RESULTS FROM THE INVENTORY

Higher than expected emissions from transportation and lighting

RECOMMENDATIONS

Short term, medium term, and long term projects

SPECIFIC PROJECT

Purchased their first city EV, and begun a project to replace streetlights with LEDs



CITY EMPLOYEES

Use shared printers and are changing LED light bulbs in government offices

YOUTH ADVISOR APPOINTEE

Zoe Eichorn, Goshen High School was appointed as a youth advisor on the city council

GOSHEN ACTIONS



COMPLETED 92 SOLAR PROJECTS

These projects produced 116 watts per person, outranking places like Phoenix, Los Angeles, and Denver in solar per capita

CITIES PERFORMING GREENHOUSE GAS INVENTORIES

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RICHMOND
FISHERS
GARY
GREENCASTLE
MICHIGAN CITY
BLOOMINGTON
EVANSVILLE
CARMEL
GOSHEN
DELAWARE - MUNCIE
COLUMBUS
FORT WAYNE
OLDENBURG
WEST LAFAYETTE

LOCAL POLICIES



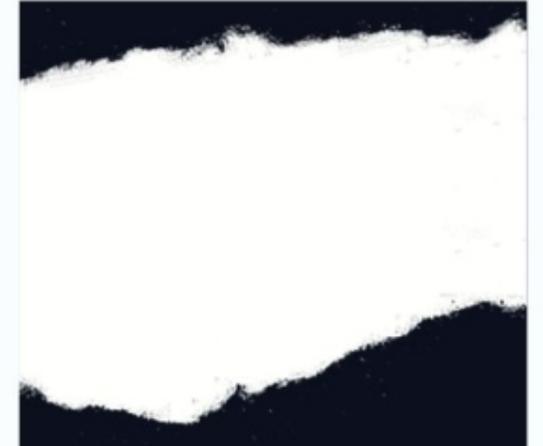
RESOLUTION

Goals of carbon neutrality, emissions management plan, adaptation plan, employee or commission



ORDIINANCE

Create a commission on sustainability, publish climate action plan



ADDITIONAL EXAMPLES:

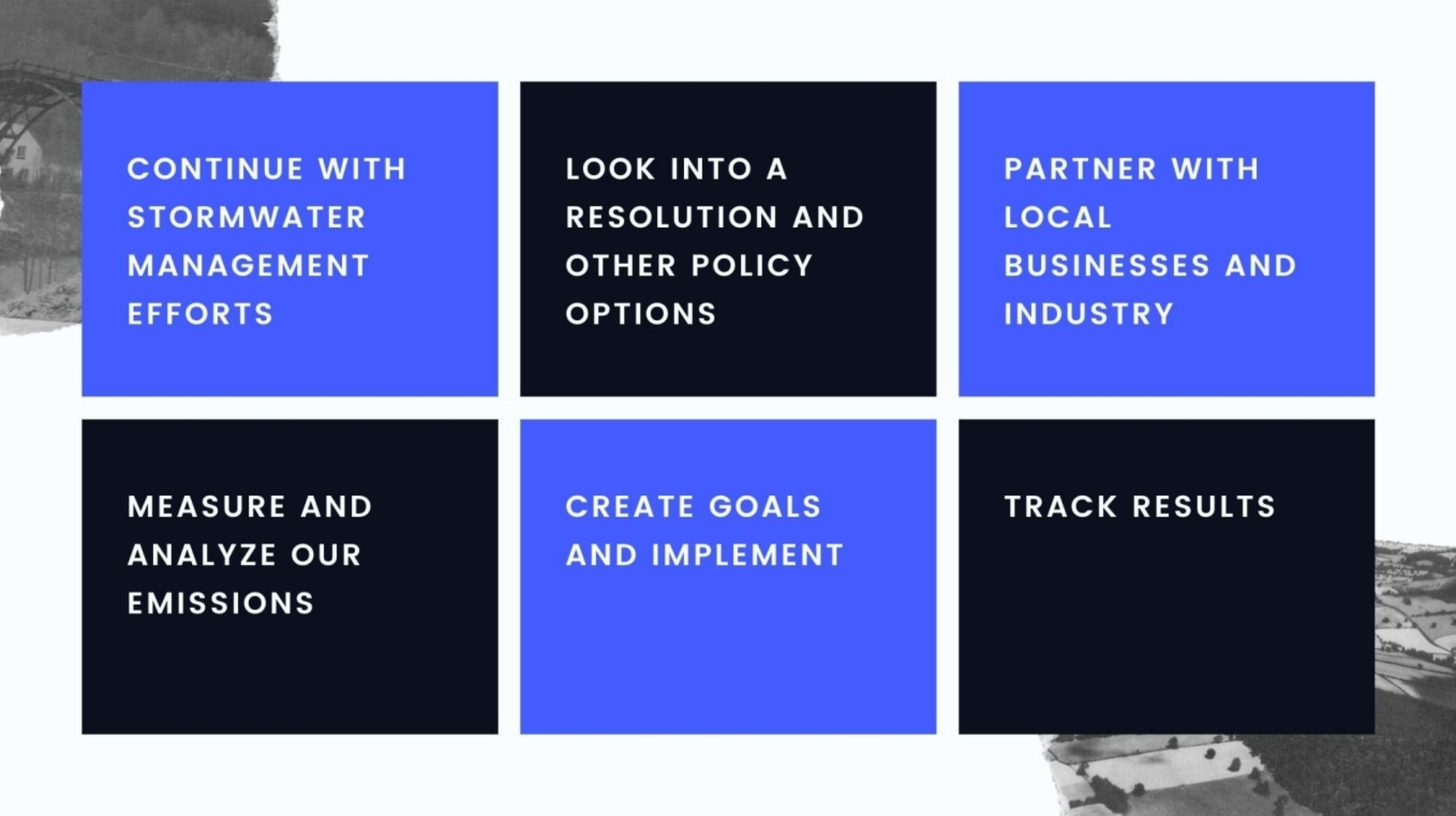
Energy efficiency, building standards, transportation, tree canopy goal



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PLANS FOR LAFAYETTE





**CONTINUE WITH
STORMWATER
MANAGEMENT
EFFORTS**

**LOOK INTO A
RESOLUTION AND
OTHER POLICY
OPTIONS**

**PARTNER WITH
LOCAL
BUSINESSES AND
INDUSTRY**

**MEASURE AND
ANALYZE OUR
EMISSIONS**

**CREATE GOALS
AND IMPLEMENT**

TRACK RESULTS

PUBLIC

COMMENT

GUIDED QUESTIONS/TOPICS:

- 1) WHAT ARE YOUR BIGGEST CONCERNS WITH CLIMATE CHANGE?
- 2) WHAT SOLUTIONS CAN YOU HELP IMPLEMENT HERE?
- 3) WHAT GOALS DO YOU WANT TO SEE IN LAFAYETTE?



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