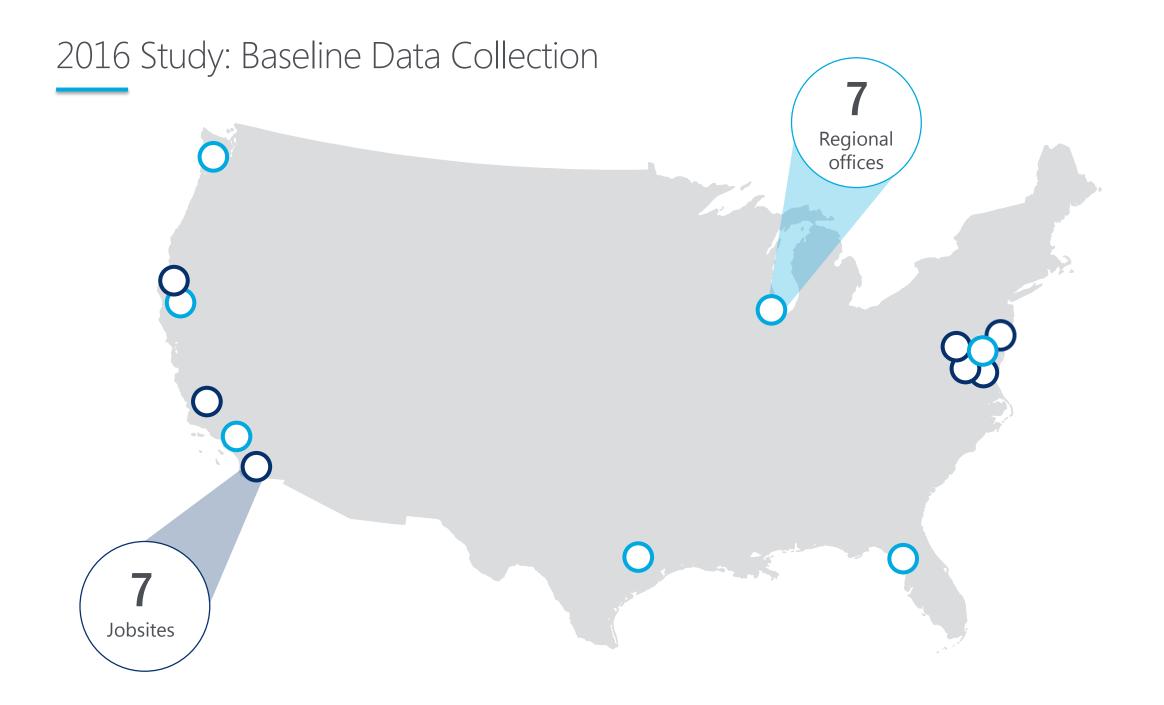


**Clark Construction Carbon Disclosure Project Study** 

CDP Supply Chain Reporting Program

# Without measuring the impacts of climate change, we can't take full advantage of the opportunities to mitigate the risks.



## Selected Projects Evaluated

#### Los Angeles Courthouse



#### UC Berkeley Bowles Hall



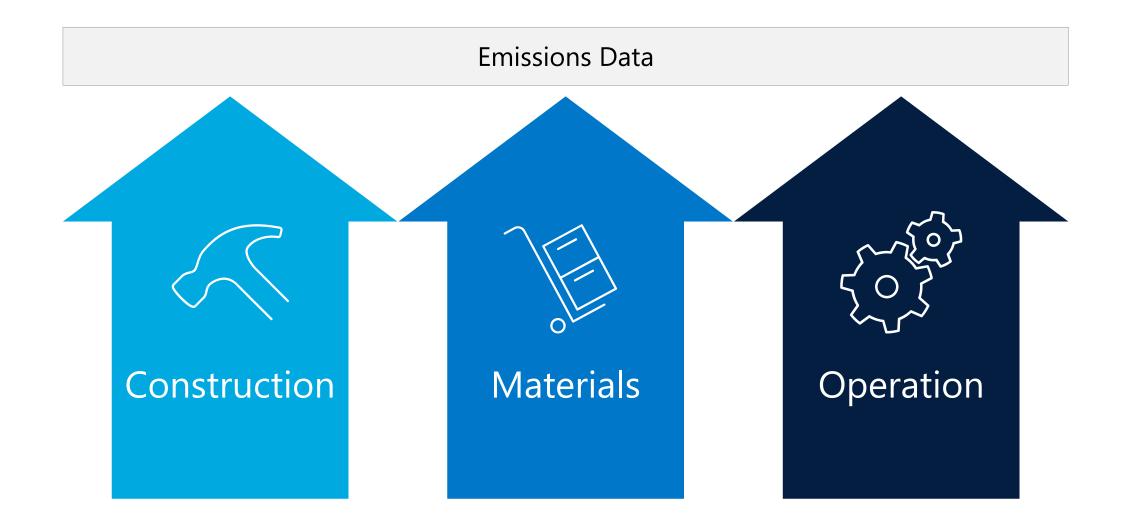
#### 7770 Norfolk



# Carbon Footprint



# Operational Areas



## **Operational Boundaries**



- Fuel: Project
- Fuel: Premises
- Process and Fugitive
- Vehicle Fuel

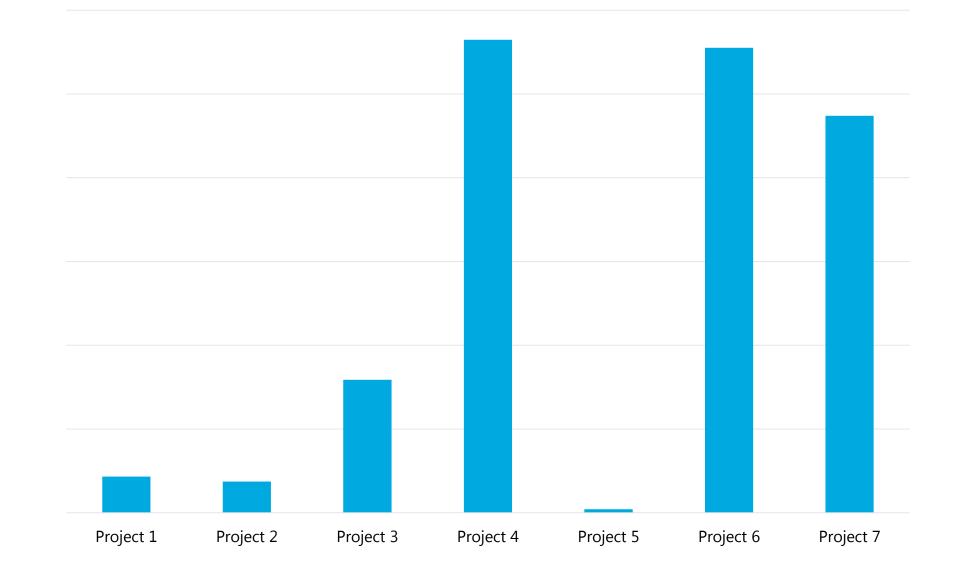
02 Scope 2 Electricity Indirect GHG Emissions

- Electricity: Project
- Electricity: Premises
- Imported Heat
- Vehicle Fuel

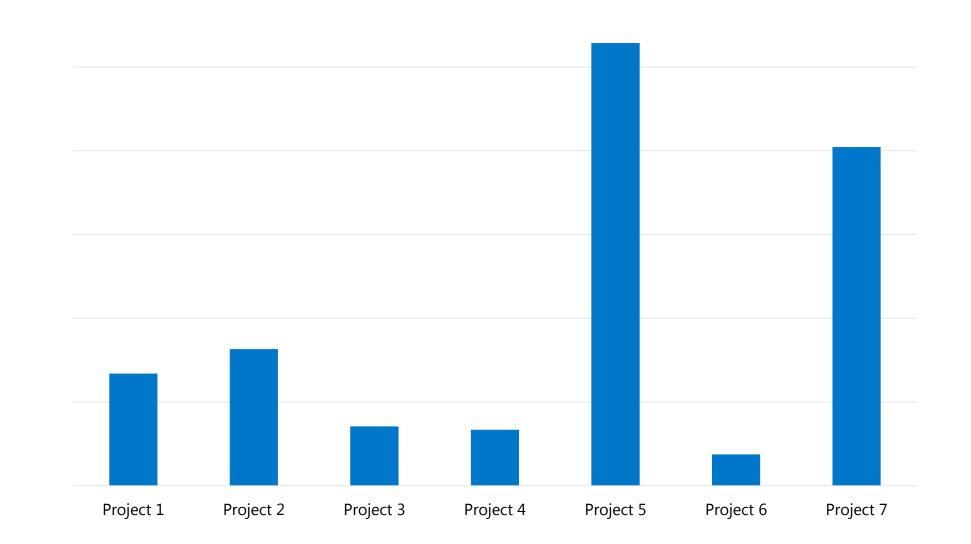
03 Scope 3 Other Indirect GHG Emissions

- Vehicle Fuel
- Public Transport
- Subcontractors
- Waste
- Materials
- Product

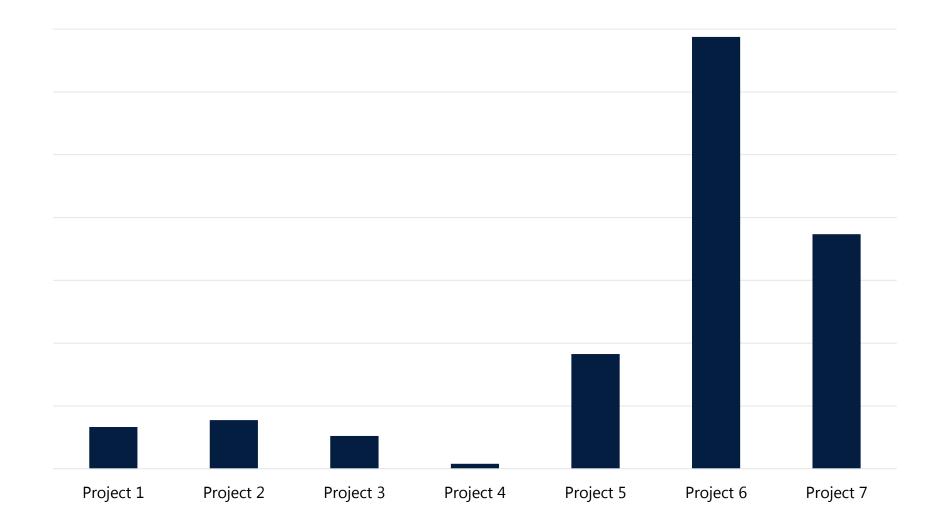
# Activity Representing Scope 1



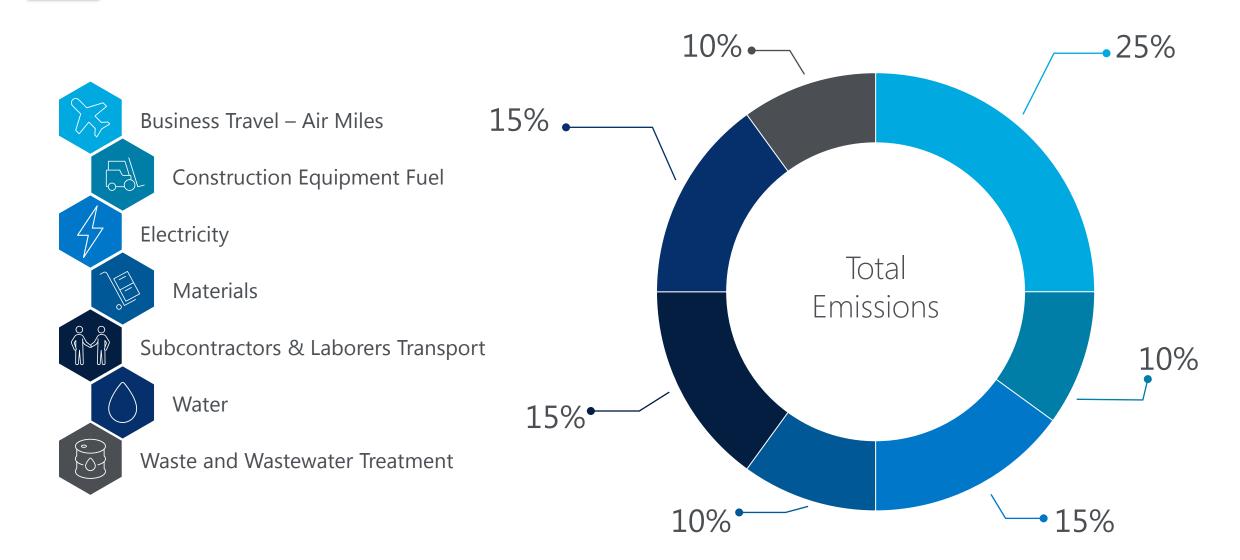
# Activity Representing Scope 2



# Activity Representing Scope 3



## Possible Project Level Carbon Emissions Breakdown



### Conclusions

- Construction operations present an opportunity to reduce carbon emissions.
- Every project yields a different carbon footprint and reduction strategies.
- Important to define carbon metrics early, during preconstruction.
- Owners and contractors have ability to affect different carbon sources.
- GSA can provide leadership with its portfolio of new construction.
- Just the beginning. Much more research and analysis needed.