



OneSTL Energy & Emissions Working Group

East-West Gateway Air
Quality Advisory Committee
5/29/18

Background

2013: OneSTL Plan for Sustainable Development adopted by East-West Gateway Board

2017: OneSTL Regional Sustainability Summit -- development of concrete targets in 7 focus areas:

Energy & Emissions

Water & Green Infrastructure

Food

Biodiversity

Buildings & Land Use

Recycling & Materials

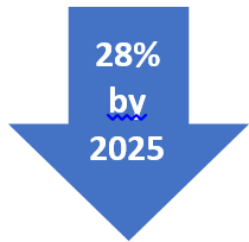
Transportation

2017: Working groups form, refine targets, regular meetings. Monthly Sustainability Lab @ TREX launches.

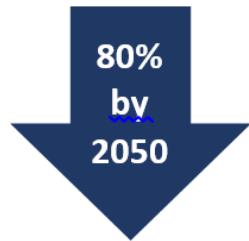
2018: Finalize targets, develop website, begin seeking endorsements.



Energy & Emissions Targets



Reduce emissions 28% below 2005 levels by 2025



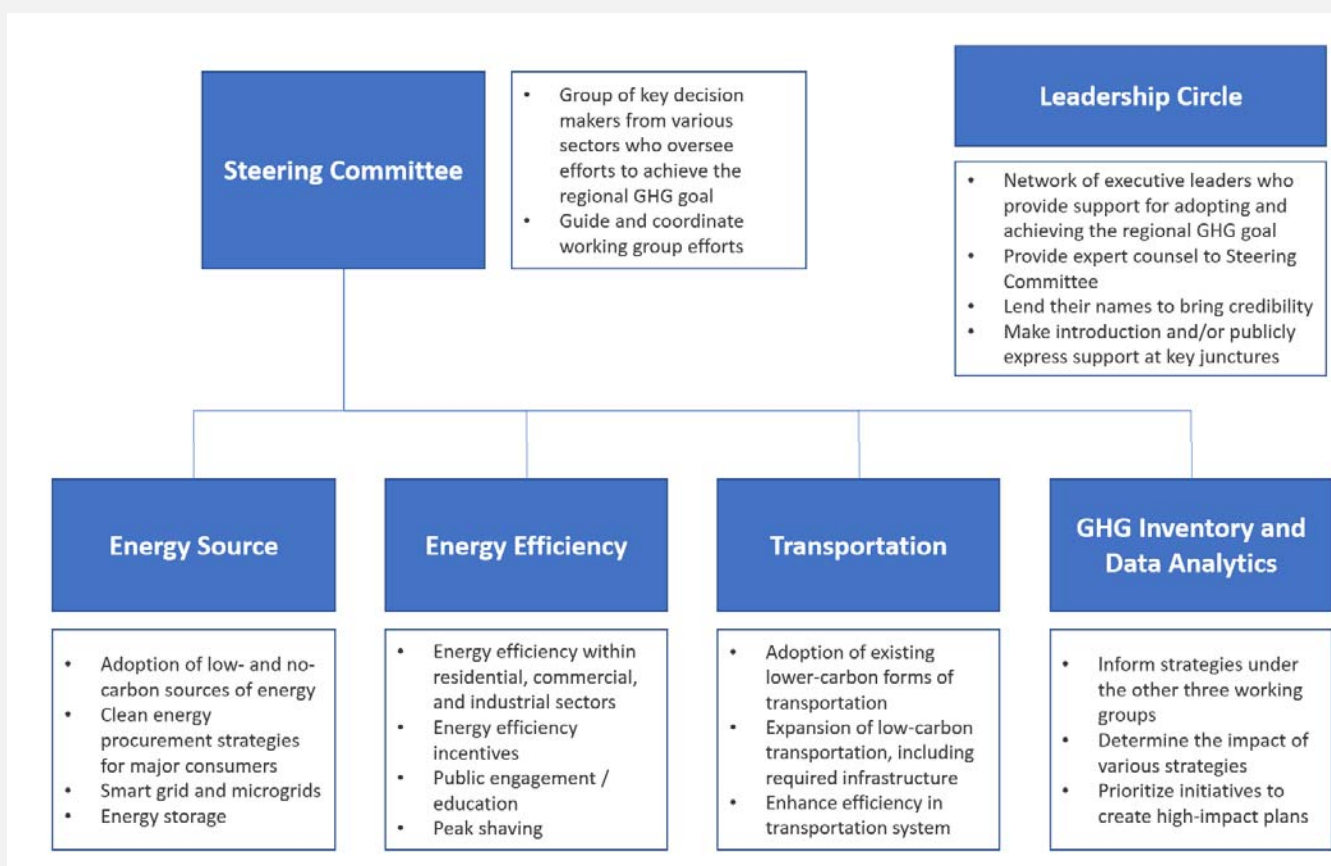
Reduce emissions 80% below 2005 levels by 2050

Energy & Emissions Commitment

Enlist businesses, institutions, and governments to sign on to a commitment letter and invite others to become signatories. The commitment letter includes four elements:

1. **Endorse** the establishment of the St. Louis regional GHG reduction goals listed on the previous page
2. **Adopt, publish, and work to achieve institution-specific commitments** for GHG reductions within one year of becoming a signatory. These commitments may be more or less aggressive than the regional goal and will be tailored by signatories to reflect the realities of their operations.
3. **Identify a point person** to lead institution-specific GHG reduction efforts and to collaborate with other signatories through sharing best-practices
4. **Invite** additional businesses, governments, institutions, and organizations in the region to join the commitment

Energy & Emissions Structure



Draft Regional GHG Inventory

Teams of WashU undergrads first developed a framework for a *regional* GHG inventory and then began to develop the actual inventory based on available data.

Our Objective:

...to create a **Greenhouse Gas Inventory** for the St. Louis region in order to **aid future planning** for OneSTL and East-West Gateway



Draft Regional GHG Inventory

What is a Greenhouse Gas (GHG) Inventory?

An inventory of all greenhouse gas emissions from a particular area, broken down by sectors.



Transportation



Waste



Stationary
Energy



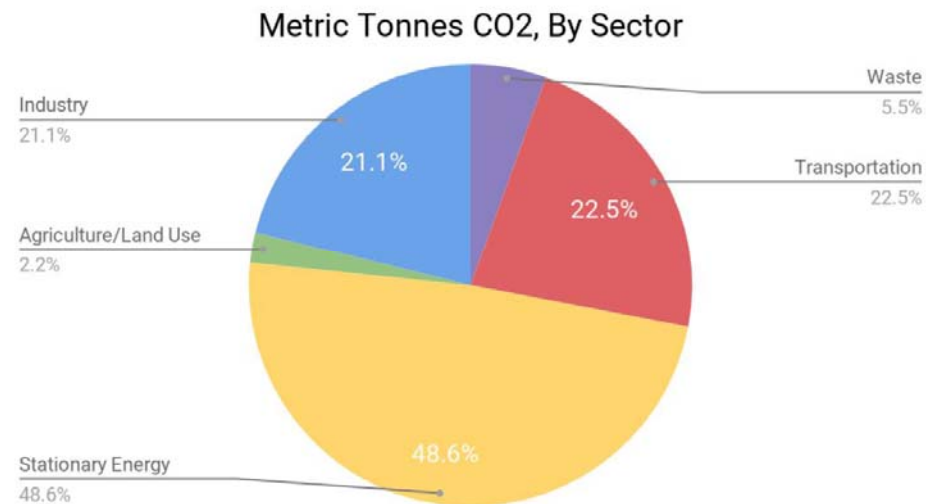
Industry



Agriculture
& Land Use

Draft Regional GHG Inventory

Preliminary 2015 Sector Breakdown

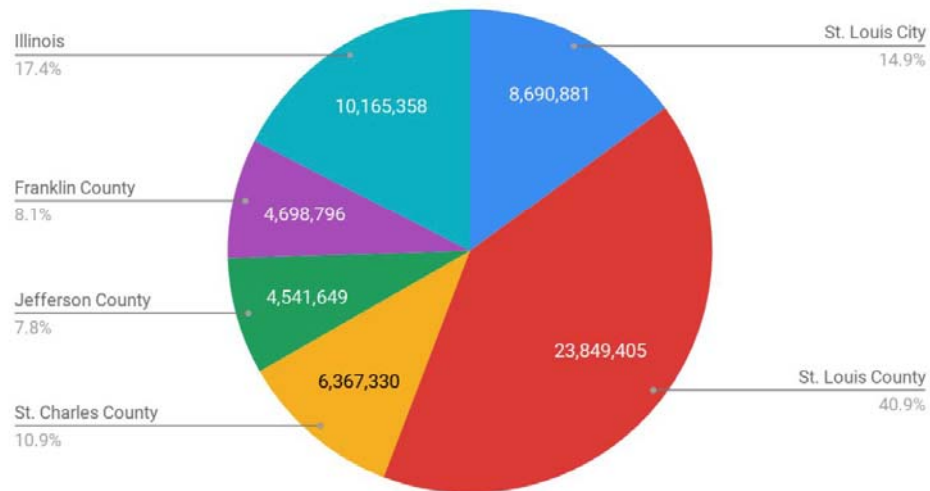


Total 2015 Emissions: **58,313,428 Tonnes CO₂ equivalent**

Draft Regional GHG Inventory

Preliminary 2015 County Breakdown

County Breakdown (in Metric Tons of CO2)



* Illinois counties (Madison, Monroe, and St. Clair) were combined into one section due to lack of data separation from Ameren, Illinois

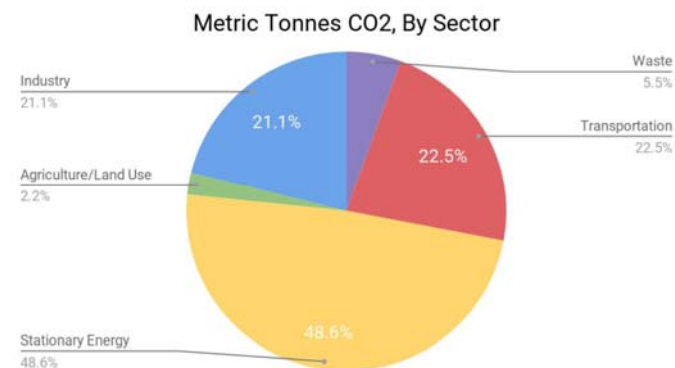
Draft Regional GHG Inventory

Draft Inventory Gaps:

- Missing Spire data
- Missing rail data
- 2005 and 2015 data was not always available leading to interpolations that likely exaggerate changes

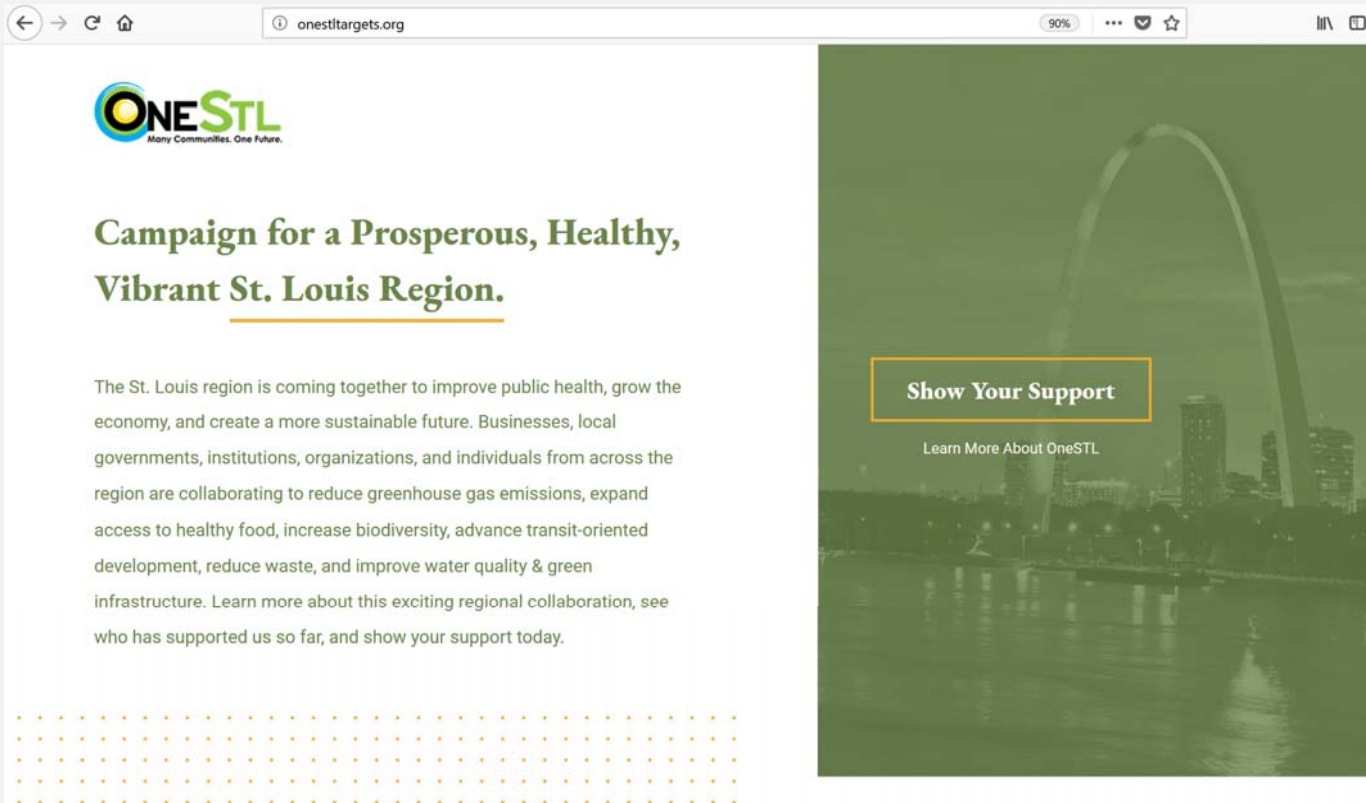
Next Steps: Support from GHG Inventory committee to further refine inventory

Preliminary 2015 Sector Breakdown



Total 2015 Emissions: **58,313,428 Tonnes CO₂ equivalent**

OneSTL Endorsement Website



www.onestltargets.org

Discussion / Input

1. **Seeking Committee Members**
2. **Discuss / Identify potential areas of collaboration between regional air quality work and Energy & Emissions Working Group**