

## Overview

- CSX Overview
- GHG and Footprint
- GHG Engagement internally and externally

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## Overview of CSX



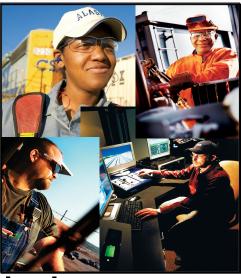
Who we are

- Founded in 1827
- · Based in Jacksonville, FL
- Operate in 23 states
- 21,000 Miles of Network
- •32,000 Employees
- 1,300 Trains/Day

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## CSX is Built on a Strong Foundation



#### Vision

To be the safest, most progressive North American railroad, relentless in the pursuit of customer and employee excellence.

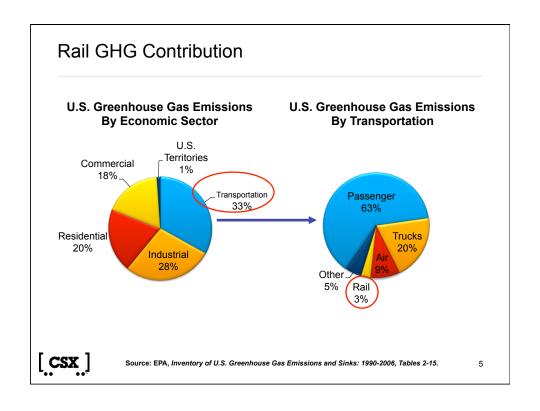
#### **Purpose**

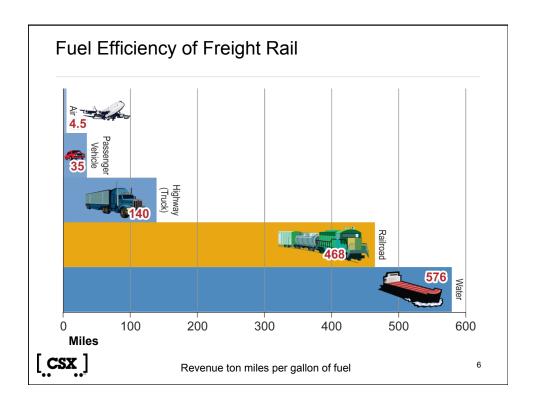
To capitalize on the efficiency of rail transportation to serve America.

#### **Core Values**

- It starts with the customer
- People make the difference
- Safety is a way of life
- Fact based
- Right results, right way

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### CSX is Committed to Reducing Greenhouse Gases

#### Collaboration

- 1st in the transportation industry to join the EPA Climate Leaders Program.
- Charter railroad industry member of EPA SmartWay program

## CLIMATE LEADERS U.S. Environmental Protection Agency



#### Dow Jones Sustainability Indexes

#### <u>Information</u>

- Only US railroad Listed on the Dow Jones Sustainability Index
- Carbon Disclosure Project S&P 500 and Global 500 Leadership Index

CARBON DISCLOSURE PROJECT



## <u>Innovation</u>

 1st US freight railroad to developed an online carbon calculator to provide customers with a tool to determine the least GHG intensive way to transport their freight by land.



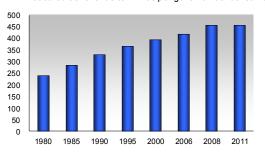
## CSX is Committed to Reducing our Fuel Use

#### Investing in Continuous Improvement

- Fuel is one of the company's top operating costs
- Improved fuel efficiency by 90% since 1980:
  - More fuel efficient locomotives and technology (\$1.75B invested)
  - Increasing per-train capacity
  - GenSet locomotives
  - Employee training
  - Idle reduction

Gains in fuel efficiency 1980 - 2011

Measured as revenue ton-miles per gallon of fuel consumed



A gallon of diesel fuel moves a ton of freight by train 214 miles further than it did 29 years ago

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# First Component of GHG Inventory: Develop a Customized Inventory

#### ■ Required

- Establish inventory boundaries
- Inventory ALL company-wide emissions
- 6 major GHGs (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFC, PFC, SF<sub>6</sub>)
- Direct (Scope 1) emissions
- Indirect (Scope 2) emissions from purchased electricity, heat, and steam

#### Optional (Scope 3) Emissions

- International operations
- Offset projects
- Employee travel and commuting
- Product transport





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## First Component of CSX Inventory

#### ■ Mobile Sources

- Approximately 4,000 locomotives
- Approximately 6,000 vehicles
- Off-road work equipment
- Air conditioning units on locomotives

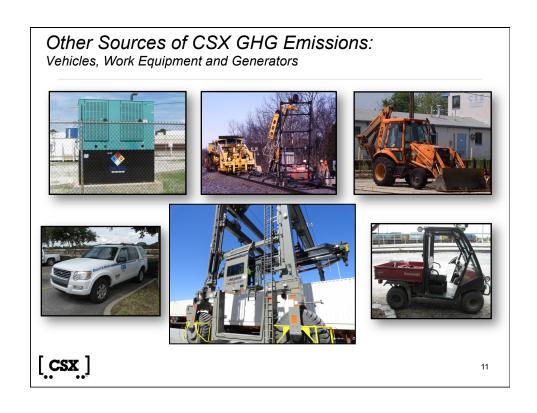
#### Stationary Sources

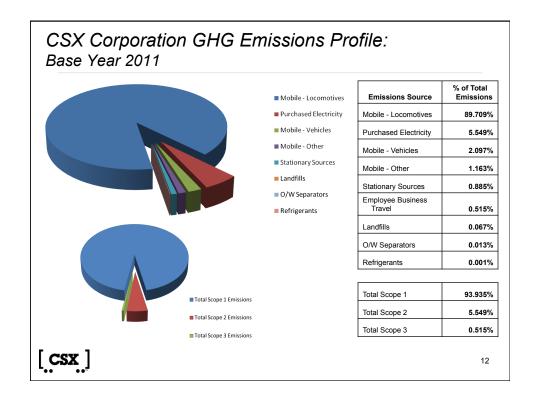
- Approximately 5,000 buildings electricity, steam, gas
- Air conditioning units for buildings
- Oil/water separators
- Landfills
- Switch heaters
- Comfort heaters











## Second Component of GHG Inventory: Create an Inventory Management Plan (IMP)

- Institutionalizes inventory process
- Leads to comprehensive & credible data management
- Increases accuracy and transparency of data and calculations
- Allows for continual improvement
- WRI -The Greenhouse Gas Protocol: (March 2004)
- EPA Climate Leaders Inventory Protocol



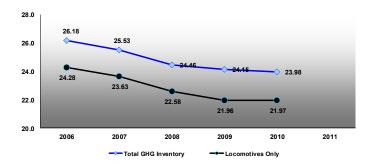
CSX Corporation Inventory Management Plan August 2012



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## CSX GHG Goal setting

- Initial goal set and achieved Reduce CSXT's 2006 Base Year emissions intensity\* by 8% within 5 years.
- Current goal reducing greenhouse gas emissions intensity\* by 6 to 8 percent by 2020.



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\*Emissions data based on metric tons of CO<sub>2</sub> equivalents per million revenue ton-miles (MRTM).

## External engagement - Key Raters and Rankers

- Carbon Disclosure Project
- Dow JonesSustainability Index
- JustMeans
- Bloomberg
- EIRIS
- ASSET4
- Maplecroft
- IW Financial







## **Bloomberg**



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#### CSX's Customer Carbon Calculator

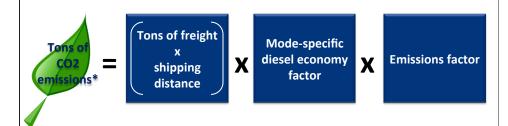
- Dual-function: intermodal container shipments and rail car option
- Consumer-facing version which allows general consumers to see the environmental benefit of freight rail in the global supply chain. This version allows the user to compare carbon emissions based on specific commodities while changing a few default values.







## How are Emissions Estimated?



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\*The carbon emissions calculated with the CSX Carbon Calculator are intended to be used as an estimate of the total carbon emissions that can be avoided by shipping freight via rail.

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# How it Works: Consumers Getting there

Access the Carbon Calculator at http://www.csx.com/ index.cfm/customers/tools/ carbon-calculator-v2e/

#### **Setting parameters**

Choose a type of goods to ship via CSX



Shipping by rail? Check out our advanced  $CO_2$  Emissions Calculators.

CSX is committed to helping protect the environment. Use this calculator to see the amount of CO2 saved when goods are moved on our rails. You can select from everyday items, choose the distance they'll travel, and select the freight volume. Change any of the variables to get a different outcome.

#### Goods

CSX trains carry goods from our everyday lives. Pick an item:

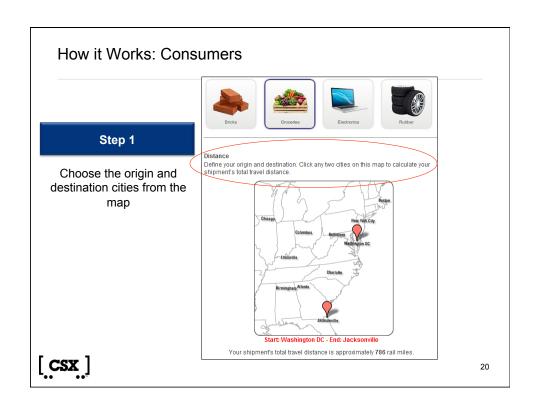


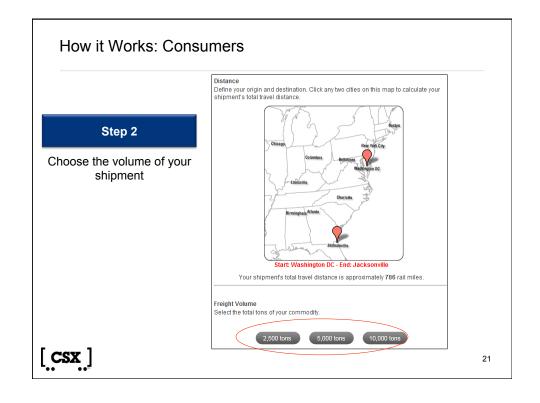


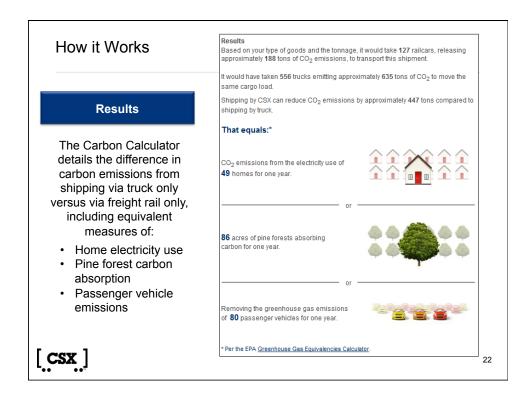


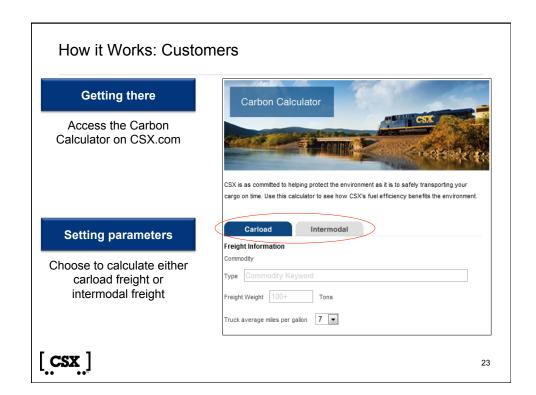


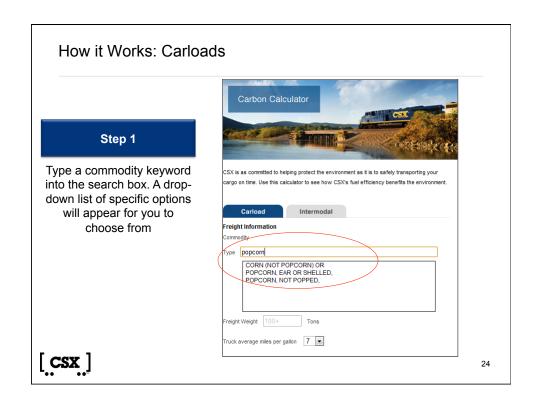
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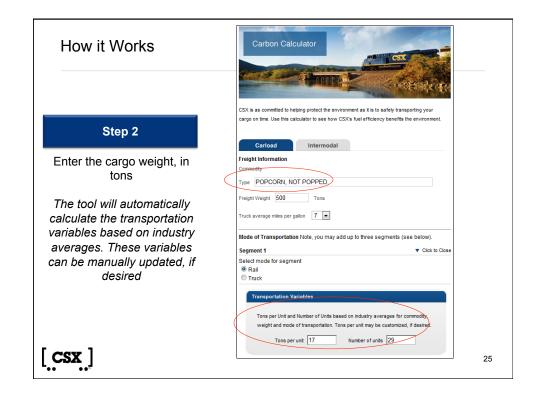


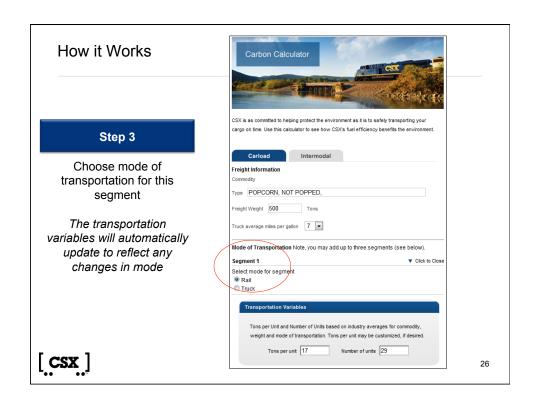


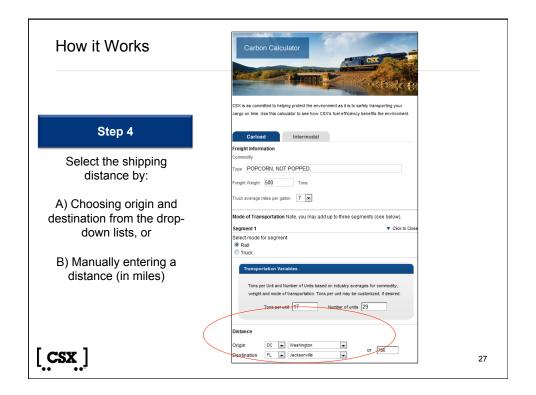


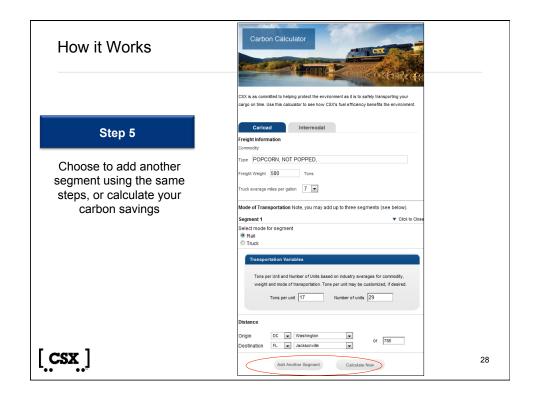


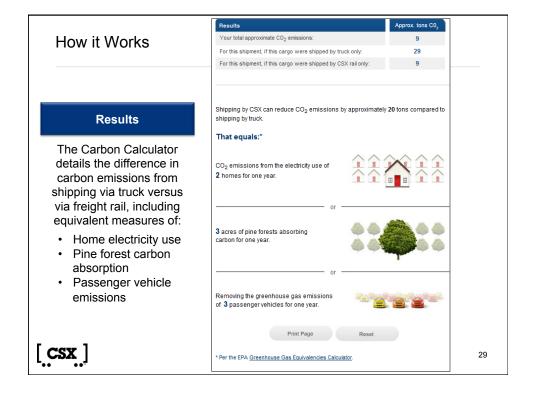


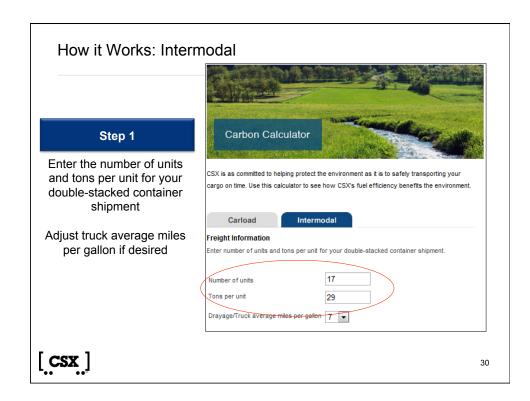












## Conclusions

- GHG reduction is a key focus for CSX good for the environment and the bottom line
- Shipping by rail helps customers reduce their scope 3 GHG footprint
- CSX has made it easy for our customers, employees, and the public to recognize the benefits of shipping by rail



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