



# Siemens Mobility Investing in American Rail

Built for excellence. Built with Pride

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# Now more than ever before America needs rail investment

Today's rail networks are falling behind the rest of the world

In 2001, China had NO high-speed railways

In 2022, no fewer than 23,500 miles of lines cross the country

By 2035, the plan is to double the length

In the US, Rail investment provides a path to economic growth, creates high skill jobs, and can ensure that we remain competitive in the global marketplace

# Rail infrastructure investment is critical For Jobs. For the economy.

- For more than 150 years...rail has been intertwined in our country's history and fabric
- 24k new jobs for every \$ 1 Billion invested in rail
- Each \$ spent on rail- returns \$4 to local communities

# Rail infrastructure investment is critical. For the environment.

- Rail can be *sustainably* powered for the future
- Zero emission power could decarbonize much of the US rail system
- 40 of the largest 100 US cities do not have *any form* of passenger rail

SIEMENS



# Siemens Mobility: Innovation and Sustainability

## Solar Powered Manufacturing

Siemens Mobility has been manufacturing in Sacramento for more than 30 years and the rail plant is almost entirely solar powered by the California sun

## Charger Certifications

Each of our Siemens Mobility Charger locomotives are powered by a Cummins 16-cylinder diesel engine, which meets the EPA Tier 4 emissions standards that took effect in 2015.

- In 2020 our Charger locomotives were also emissions-verified by the California Air Resources Board (CARB) standards.

## Hydrogen Trains

- Our colleagues in Germany are testing hydrogen-powered trains with a range of more than 600 miles.
- These trains use a hydrogen generator to charge an onboard electric battery which powers the trains' electric motor.
- Hydrogen-powered trains are an emissions free solutions on routes without overhead power cables.



#AMERICANMADE

# Siemens Mobility Manufacturing in North America

## INVESTING FOR THE FUTURE

**\$100M**

INVESTED IN 10+  
YEARS ADDING  
HUNDREDS OF JOBS

**2000+**

SUPPLIERS ACROSS  
THE U.S. IN MORE  
THAN 40 STATES

**2M WATTS**

SOLAR POWERED  
MANUFACTURING  
FACILITY IN  
SACRAMENTO

**40+**

TRANSIT  
CUSTOMERS  
ACROSS NORTH  
AMERICA

**SIEMENS**

## MANUFACTURING IN AMERICA



**8** MANUFACTURING  
FACILITIES

ALPHARETTA, GA

LOUISVILLE, KY

MCCLELLAN PARK, CA

PITTSBURGH, PA

MARION, KY

NEW CASTLE, DE

PORTLAND, OR

SACRAMENTO, CA

**30K**

CROSSINGS ACROSS  
NORTH AMERICA

**2800+**

LOCOMOTIVES, LIGHT RAIL  
VEHICLES, AND TRAINSETS

**2000+**

DATA POINTS  
REMOVEDLY MONITORED  
ON EACH TRAINSET

**975+**

LOCOMOTIVES, COACHES  
AND LRVS WITH LONG-TERM  
SERVICES AGREEMENTS

**PTC**

OUTFITTED FIRST FULLY  
INTEGRATED PASSENGER  
RAILROAD



# #AmericanMade





# Cutting-Edge S700 Streetcar Transports Charlotte's Commuters

Adding off-wire service to Charlotte Area Transit System's Gold Line eliminates the need for overhead wires in the central business district.

**24.7%** population growth in Charlotte since 2010, with residents seeking sustainable transit options

 **Stores renewable power** from innovative regenerative braking system



**Low-floor design** that's more accessible than ever



**On-wire**

and



**Off-wire**

**Emissions-free transportation for Charlotte's future**





A trusted partnership

## Siemens Mobility and Amtrak

- In 2010, 70 electric ACS-64 locomotives for use on the Northeast Corridor were ordered
- In 2018, 75 diesel-electric Charger locomotives for long distance service across the country were ordered
- 2021, Amtrak ordered 73 multi-powered trainsets, including **dual power and hybrid battery trains.**
- The Charger engine will be coupled with a Battery Car allowing for emissions-free operations in areas not allowing diesel operations (like New York's Penn Station)

**SIEMENS**



A trusted partnership

## Siemens Mobility and Brightline

- Brightline is the only provider of modern, eco-friendly high-speed rail in the U.S., and Siemens Mobility has provided all 17 of their Florida trainsets since 2018.
- Siemens Mobility and Brightline are also in discussions on supplying Brightline's technology solutions for its future high-speed Brightline West operations in California .

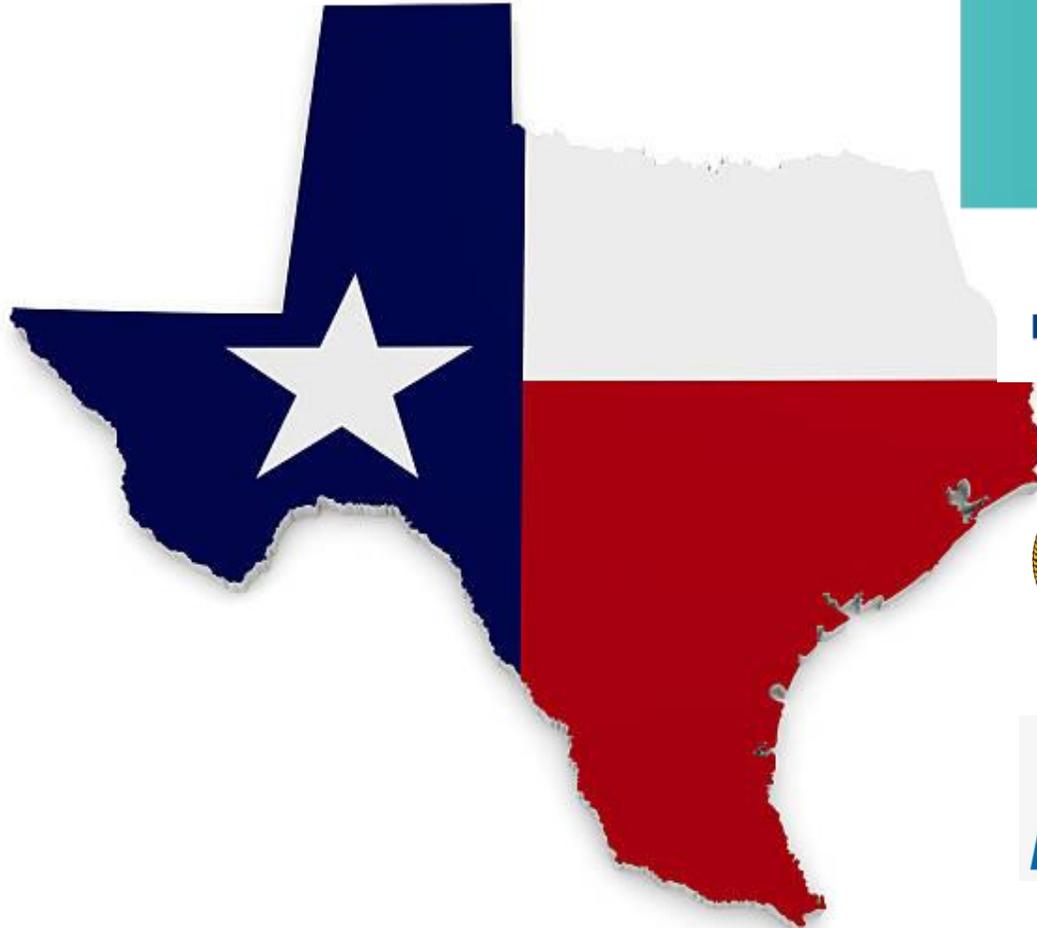


Siemens in Texas

## Connecting Houston with Light Rail

- A partnership since 2001, Houston Metro has ordered 51 LRV's
- Full Turnkey Project-- Siemens supplied all systems (LRVs, Traction Power, Control center)

**SIEMENS**



## Siemens in Texas

# Keeping Texas connected and on the move



- In 2007, Dallas Area Rapid Transit (DART) awarded a contract to Siemens to supply 24 thyristor-controlled rectifier substations for the Southeast and Northwest corridor expansions.



- In 2008, The City of Houston awarded Siemens Mobility a multi-phase project to maximize energy efficiency across the city's 10,000 traffic and pedestrian signals.



- In 2014, Bytemark, a Siemens business, launched the first citywide mobile ticketing app in Austin with Capital Metro.

# Siemens Mobility and Texas: the potential for greatness in rail

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- Sustainable LRVs
- Best in the business Charger Locomotives
- High speed rail

