Delivering sustainable mobility in the U.S.

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Southwestern Rail Conference
Agenda

1. Meet Alstom
2. Alstom in the Americas
3. Alstom in Texas
Meet Alstom
Leading societies to a low carbon future

Alstom develops and markets mobility solutions that provide the sustainable foundations for the future of transportation. Alstom’s product portfolio ranges from high-speed trains, metros, monorail and trams to integrated systems, customised services, infrastructure, signalling and digital mobility solutions.
We are where mobility is needed

Over 70,000 employees worldwide

Over 17,500 engineers

More than 70 countries

More than 9,500 patents

Over 250 sites

Partner to over 300 cities

Over 150,000 vehicles in commercial service

AMERICAS
11,300 employees

EUROPE
43,100 employees

AMECA
(AFRICA, MIDDLE EAST, CENTRAL ASIA)
4,900 employees

APAC
(ASIA PACIFIC)
11,500 employees

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A complete product portfolio to better serve our customers

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Enabling decarbonisation of mobility

Placing energy-efficient electrical rail solutions at the heart of our portfolio

Hesop reversible power substation captures 99% of recoverable braking energy

Flexity Berlin trams with innovative, low-noise bogies

Energy efficiency and eco-design

Enabling the transition to sustainable mobility solutions

Coradia iLint – first zero-emission, hydrogen powered train

Conversion of AGC dual mode trains to battery-electric

Green traction and electromobility

Decarbonising operations

Energy plan, installation of solar panels at Villeneuve factory, Switzerland

Energy plan, installation of solar panels at Sri City factory, India

Renewable sources of energy for operations
Alstom Battery train references for suburban & regional services

- Coradia Continental
  - 11 BEMU trains for VMS

- R&D demonstrator with DB
  - Test prototype in passenger operation
  - First fully homologated BEMU in Germany

- X'trapolis
  - 13 BEMU trains for DART (Ireland)

- X'trapolis
  - Battery power cars for Melbourne (pre-design phase only)
Alstom Fuel Cell train references for suburban & regional services

- **Aventra FCMU**
  - 10 FCMU trains for Eversholt Rail (MoU only)

- **Coradia iLint**
  - 14 FCMU trains for LNVG
  - 27 FCMU trains for RMV

- **Coradia Stream**
  - 6 FCMU trains for FNM
We design inclusive mobility solutions in a work environment and culture where all differences are embraced, respected and leveraged.
Alstom in the Americas
4,500 Employees in the U.S.

12,000+ New or renovated Alstom vehicles

50+% Signaling in North America

45 Sites in the U.S.

2,000+ Active suppliers in the U.S.

20 Operations & maintenance contracts in North America
Serving customers across the United States

65+ active projects in the United States
Where you have seen our products and services

**Amtrak**: 28 next generation high speed trainsets

**Réseau express métropolitain (REM)**: automatic and driverless light metro system with signalling, platform screen doors, depot equipment, 30 years of operations and maintenance

**New York City Transit**: 1,320 subway cars and AC propulsion systems for subway cars and hybrid locomotives

**Airports**: Operations and maintenance of people mover systems at 14 airports including JFK, Dallas and Houston

**San Francisco Municipal Transit Authority**: Vendor Managed Inventory (VMI) for fleet of light rail vehicles, historic street cars and cables cars

**Toronto Transit Commission**: Communications-based train control (CBTC) solution for train traffic management

**Massachusetts Bay Transportation Authority**: Fleet modernization of 106 bi-level cars and 103 Green line light rail vehicles

**Rail crossings**: 100,000+ units utilizing Alstom technology

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03 Alstom in Texas
Texas reference projects

- George Bush Intercontinental Airport Skyway
  - Serves more than 8 million passengers annually
  - 0.7 mile dual-lane guideway
  - 16 Innovia APM 100 vehicles
  - Provided operations and maintenance for 15 years
    - Extended contract until 2031
  - CityFlo™ 550 automatic train control
  - Switch machines

- Dallas Fort Worth International Airport Skylink
  - Serves more than 1 million passenger annually
  - 5 mile dual-lane guideway
  - 64 Innovia APM 200 vehicles
  - Maintenance for APMs since May 2005
    - Extended contract until 2032
  - CityFlo™ 650 automatic train control
  - Switch machines
Texas reference projects

- Dallas Area Rapid Transit (DART)
  - Supervisory Control and Data Acquisition (SCADA)
- Capital Metro
  - Wayside signaling
  - Crossings
  - E-ATC for Positive Train Control
- Denton County Transit Authority (DCTA)
  - Wayside signaling
  - E-ATC for Positive Train Control
- BNSF
  - Supplier of Wayside PTC Train Control Equipment and Vital Crossing Control equipment
- Trinity Railway Express
  - 25 BiLevel vehicles
  - Wayside signaling
With our strong R&D innovation capabilities and expanded commercial presence, we continue to serve our customers to tackle the challenges of today and tomorrow with a green future in mind.