



Map of case studies

1. Port and corridor cleanup plans

Case study #1: Chicago Region Environmental and Transportation Efficiency (CREATE) Program (Chicago, Illinois)

Case study #2: The Ports of Los Angeles and Long Beach (Los Angeles/Long Beach, California)

Case study #3: The Port of Seattle (Seattle, Washington)

2. Shoreside power

Case study #1: The world's first shoreside power for RORO vessels (Gothenburg, Sweden)

Case study #2: The Port of Long Beach tanker berth (Long Beach, California)

Case study #3: Port of Seattle Terminal 30 Cruise Facility (Seattle, Washington)

3. Ship cleanup

Case study #1: SkySails (Hamburg, Germany)

Case study #2: Solar-power-assisted vessel (Tokyo, Japan)

Case study #3: Slow steaming (Copenhagen, Denmark)

4. Coastal shipping

Case study #1: RORO Past France (Zeebrugge, Belgium to Bilbao, Spain)

Case study #2: The 64 Express (Richmond, Virginia to Hampton Roads, Virginia)

Case study #3: SeaBridge Freight (Point Manatee, Florida to Brownsville, Texas)

5. Rail yard and port cargo handling equipment

Case study #1: Port of Virginia's Green Goat and RP series (Norfolk, Virginia)

Case study #2: BNSF cranes in Seattle (Seattle, Washington)

Case study #3: Foss Maritime hybrid tugboat, the Green Dolphin (Long Beach, California)

6. Diesel engine emissions reductions and incentives

Case study #1: Incentive programs (United States)

Case study #2: Diesel-electric hybrid trucks (not shown on map)

Case study #3: In-use diesel regulations in California and Tokyo (California/Tokyo, Japan)

7. Truck tolling

Case study #1: PierPASS, California (Los Angeles/Long Beach, California)

Case study #2: Germany's Toll Collect (Germany)

8. Truck stop electrification

Case study #1: Truck stop electrification on Oregon's Interstate 5 (Oregon)

Case study #2: National deployment strategy for truck stop electrification and interactive map (College Station, Texas)

9. Logistics

Case study #1: Technological solutions and route optimization (not shown on map)

Case study #2: Eco-driving (not shown on map)

Case study #3: Contract specifications (not shown on map)

10. On-the-horizon technologies for rail, port and maritime

Case study #1: Norfolk Southern battery-powered locomotive (State College, Pennsylvania)

Case study #2: Electromagnetic Cargo Conveyor—ECCO (San Diego, California)