



Development of Electric or Hydrogen Freight

Action: Engage with Devens logistics companies to identify opportunities for the development of electric or hydrogen fueled freight truck fueling and support infrastructure.

DESCRIPTION OF ACTION	Investigate the fuel shifting potential of converting diesel freight trucks to electricity or hydrogen by conducting a study with local logistics companies to site fueling stations and ways for Devens to support this shift.
CHAMPION	U.S. EPA Smart Ways Program

IMPLEMENTATION STEPS	PLANNING CONSIDERATIONS	
	Timeframe ¹	Key Partners
Research best practices around the U.S. for communities and regions that have successfully transitioned to electric and hydrogen freight vehicles	Short	<ul style="list-style-type: none"> • Devens Enterprise Commission • Pan Am Intermodal • MassDOT • MassDevelopment • Devens businesses
Host a freight trucking forum with local logistics companies and surrounding towns to learn more about existing fleet plans and potential for fuel switching	Medium	<ul style="list-style-type: none"> • Devens Eco-Efficiency Center • Devens Enterprise Commission • Nashoba Valley Chamber of Commerce • Devens businesses • Businesses from surrounding communities • Pan Am Intermodal
Conduct a community survey to determine the support for installing additional fueling infrastructure and the co-benefits of serving both freight and local resident needs	Medium	<ul style="list-style-type: none"> • Montachusett Regional Planning Commission • Devens Enterprise Commission
Complete a Fuel Switching for Freight Vehicles Report that outlines the potential GHG savings, monetary costs of infrastructure placement and charts a road map for how to achieve these goals in partnership with logistics companies	Long	<ul style="list-style-type: none"> • Montachusett Regional Planning Commission • Surrounding communities
Explore a pilot program with a local freight/ Logistics company (public/private partnership)	Long	<ul style="list-style-type: none"> • Devens Business • MassDOT

¹ Short = less than 1 year; Medium = 1-3 years; Long = 4-5years

DEVELOPMENT OF ELECTRIC OR HYDROGEN FREIGHT (CONT.)

<p>FUNDING RESOURCES</p> <ul style="list-style-type: none"> • US DOE Clean Cities • MassDOER electric vehicle rebates • Plug In America • US EPA Smart Way Program 	<p>TECHNICAL RESOURCES</p> <ul style="list-style-type: none"> • Massachusetts Freight Plan • EPA SmartWay Transport Partnership • Boston Region Metropolitan Planning Organization • Trucking Association of Massachusetts • MA State Rail Plan
<p>LINKS TO OTHER PLANS & ACTIONS</p> <p>How does this action connect to other Devens goals?</p> <ul style="list-style-type: none"> • Helps reduce GHGs from on-road vehicles • Facilitates coordination between local communities for a collaborative regional economy • Relevant STAR Objectives: Mitigation, Greening the Energy Supply, Transportation Choices, Green Market Development, Targeted Industry Development, Outdoor Air Quality • Relevant LEED Credits: Alternative Fuel Vehicles, Energy and GHG Emissions Performance, Smart Mobility and Transportation Policy 	<p>EQUITY CONSIDERATIONS</p> <p>How can the community incorporate equity into the implementation of this action?</p> <ul style="list-style-type: none"> • Include environmental justice populations in Devens and surrounding communities. • Highlight the benefits of lower particulate emissions and improved air quality along freight corridors
<p>MEASURING SUCCESS</p> <p>How can we measure the progress and success of this action?</p> <p>Outputs</p> <ul style="list-style-type: none"> • Inventory of best practices • Freight trucking forum • Estimates for GHG reduction potential from fuel switching • Regional coordination on freight with MPO and surrounding towns <p>Outcomes</p> <ul style="list-style-type: none"> • # of electric and hydrogen fueling stations • Reduction in GHG and particulate emissions from heavy trucks • # of Devens businesses enrolled in US EPA Smart Ways Program 	<p>ENGAGING THE COMMUNITY</p> <p>How can we engage the populations that benefit from implementing this action?</p> <ul style="list-style-type: none"> • Community survey for electric and hydrogen vehicle preferences • Provide links and publicity to trucking companies that are most poised to transition to clean fuels • Highlight community air quality benefits of fuel switching • Work to involve/communicate with Environmental Justice populations in Devens and surrounding communities