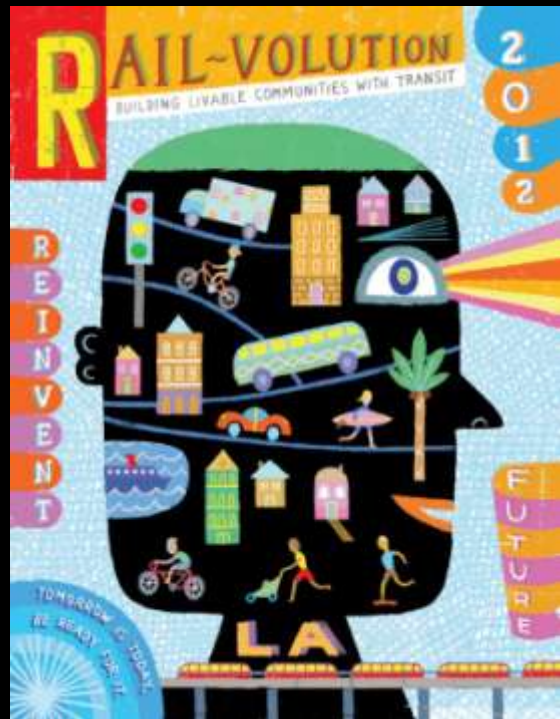




**Building Livable Communities with Transit**



# **Tri-Rail's Pompano Beach Green Station Demonstration Project**

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**Project Manager**  
**South Florida Regional Transportation Authority**  
**(SFRTA)**

# **Pompano Beach Green Station**

1. Project Video
2. Existing Conditions of the Station
3. Project Goals
4. Questions

# Pompano Beach Green Station





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## Building Livable Communities with Transit

### LEGEND

1. NEW STATION BUILDING, BRIDGE AND PLATFORM
2. NEW KISS AND RIDE
3. NEW BUS CANOPY
4. DEDICATED BUS DROP OFF LANE
5. EXISTING WEST PARKING LOT

### SUSTAINABILITY FEATURES

6. SHADED RECONFIGURED PARKING LOT
7. SOLAR PANEL COVERED PARKING
8. PHOTOVOLTAIC LAMINATE ON PLATFORM CANOPY
9. BICYCLE LOCKERS
10. PREFERRED PARKING FOR LOW EMITTING & FUEL-EFFICIENT VEHICLES
11. ELECTRIC VEHICLE CHARGING STATIONS
12. CAR POOL VAN PARKING
13. SUSTAINABILITY EDUCATIONAL SIGNAGE
14. LED LIGHTING FIXTURES
15. PEDESTRIAN BRIDGE & MACHINE ROOM - LESS ELEVATORS
16. WATER EFFICIENT LANDSCAPE & IRRIGATION
17. WATER EFFICIENT PLUMBING FIXTURES
18. REFURBISHED SITE FURNISHINGS
19. INDOOR ENVIRONMENTAL QUALITY MEASURES



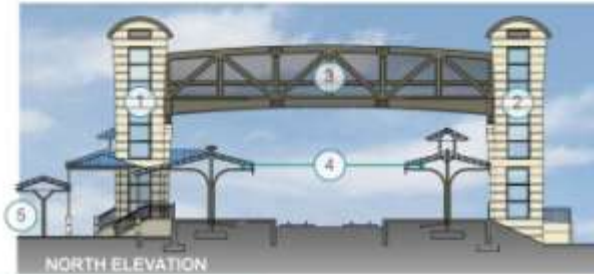
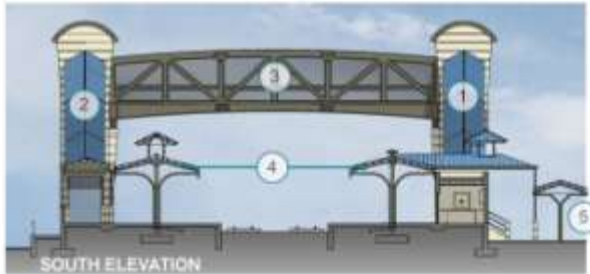
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**LEGEND**

- 1 EAST STATION BUILDING
- 2 WEST STATION BUILDING
- 3 PEDESTRIAN BRIDGE
- 4 STATION CANOPY
- 5 BUS CANOPY
- 6 ADA ACCESSIBLE RAMP





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GREEN ENERGY PRODUCTION



SOLAR ENERGY GENERATION



REAL TIME MONITORING OF ENERGY GENERATION AND USE

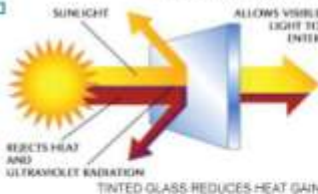
REDUCE ENERGY USE



LED LIGHT FIXTURES AT PLATFORM AND PARKING AREAS



MACHINE-ROOMLESS ELEVATOR USES 80% LESS ENERGY



INCREASE ENVIRONMENTAL QUALITY



ROOF COLOR REDUCES HEAT ISLAND EFFECT



PARKING SHADED BY TREES, REDUCING THE PAVEMENT HEAT ISLAND EFFECT



RECYCLING BINS

PROMOTE ALTERNATIVE TRANSPORTATION



RIDE THE TRI RAIL



SECURE BICYCLE STORAGE



ELECTRIC VEHICLE CHARGING STATIONS



DEDICATED VAN POOL PARKING



DEDICATED ALTERNATIVE FUEL VEHICLE PARKING

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Station Name	Yearly Energy Consumption (KWH)	Yearly Energy Consumption Cost	Yearly Maintenance & Operating Cost	Projected Energy Consumption (KWH)/yr	Projected Energy Reduction (KWH)/yr	Projected Energy Consumption Cost	Projected Operation & Maintenance Cost
Ex. Pompano Beach Station & E. parking lot (together)							
Existing Pompano Beach Station	30,155	\$ 4,221.70	\$ 4,372.48				
Existing Pompano Beach E. parking lot	81,432	\$ 11,400.48	\$ 11,807.64				
Existing Pompano Beach W. parking lot	12,118	\$ 1,696.52	\$ 1,757.11				
	<b>123,705</b>	<b>\$ 17,318.70</b>	<b>\$ 17,937.23</b>				
<b>Baseline Project</b>							
Standard Station (Sheridan Street)	140,817	\$ 19,714.38	\$ 20,418.47				
Existing Pompano Beach E. parking lot	81,432	\$ 11,400.48	\$ 11,807.64				
Existing Pompano Beach W. parking lot	12,118	\$ 1,696.52	\$ 1,757.11				
	<b>234,367</b>	<b>\$ 32,811.38</b>	<b>\$ 33,983.22</b>				
<b>Proposed Green Project</b>							
Pompano Beach Green Station	-	-	-	84490	56,327	\$ 11,828.63	\$ 7,350.65
Solar Canopies	-	-	-	-115807	-	-	-
Pompano Beach E. parking lot	-	-	-	22776	58,656	\$ 3,188.64	\$ 1,981.51
Pompano Beach W. parking lot	-	-	-	8541	3,577	\$ 1,195.74	\$ 743.07
				<b>115,807</b>	<b>118,560</b>	<b>\$ 16,213.21</b>	<b>\$ 10,075.23</b>

**70% Reduction in Energy Consumption (Operations) & Maintenance**

# Pompano Beach Green Station

**Thank you!**

**Questions?**

