

Improving the NYC Ferry Boat Transportation System

Green Ferry Alternatives

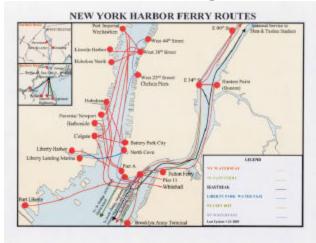


Advanced Concepts for Future Vessels

(\$90k feasibility study)

- •Superior energy and environmental performance
 - •Propulsion systems
 - •Hull designs
 - •Fuels

NYC Private Ferry Emissions Reduction Program



Retrofitting the Current Fleet

(\$6.8 mil analysis, demo, deployment)

- •Engine modifications, Alternate fuels, Exhaust cleanup, et. al.
- Substantial Leveraging of Federal \$\$\$
- •FHWA CMAQ funds; Federal Transit
 Administration funds
 - •NYSERDA; NYCDOT; NYSDEC; FTA; PANY/NJ; U.S. EPA; NJDOT

Strong Arm Docker



Advanced Docking Concept

(\$420k design & prototype)

- •Allows throttling back engines when Loading/Unloading
 - •Less energy use
 - •Fewer emissions