Great Smoky Mountains National Park Facility Management Division



2016 Sustainable Transportation Awards & Forum

Greening Great Smoky Mountains



Alternative tive

May 13,

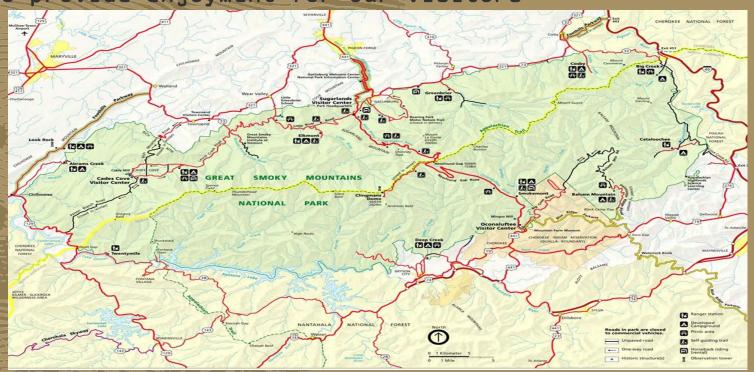


EXPERIENCE YOUR AMERICA

Great Smoky Mountain National Park Facility Management Division



Our Mission...to protect/maintain the cultural and natural resources of the Great Smoky Mountains National Park and to provide enjoyment for our visitors.



Great Smoky Mountains National Park Facility Management Division

Park Overview

Over 500,000 acres - 5
Counties in 2 States
Over 10 million visitors
- most visited in the
Service
324 Buildings plus 120
Historic structures

10 Campgrounds - over 1,000 campsites

27 Waste Water System and 28 Water Systems

238 Miles of Paved Roads/126 Miles of Unpaved Roads

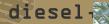
301 Parking areas - 1,000 spaces

848 Miles of Tails/84 Campsites/16

Shelters/3 Bunkhouses

150 Cemeteries - 4,847 Graves

227 Park passenger vehicles - 43 Bio-





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In the beginning...

- October 2004: East Tennessee Clean Fuels Coalition Partnership GRSM signatory for Coalition's designation.
- Early 2000s Land-of-Sky Clean Vehicles Coalition assisted with federal Congestion Mitigation and Air Quality (CMAQ) grants
- Climate Friendly Park status 2006, completed Action Plan -Air Quality - non attainment issues (02 and PM 2.5)
- The Park's CFP Action Plan calls for the Park to "Reduce 2006 transportation-related Green House Gas (GHG) emissions from park operations by 20 percent by 2020"
- The Park started utilizing alternative fuels starting with B20 in all of its diesel vehicles rand buildings in 2004.

Great Smoky Mountains National Park

Facility Management Division Greening Great Smoky Mountains National Park

- May 2013 Planning for a Greener Tomorrow DOE Clean Cities National Parks Initiative Proposal Submission for Year One Funding - \$248,700
 - Purpose: Identify opportunities that educate and enhance the visitor experience and identify options for greening park operations and right sizing the fleet
 - Replace three gasoline vehicles with three Vantage
 Neighborhood Electric Trucks
 - Install two DCFC and two Level 2 charging stations at Sugarlands and Oconaluftee Visitor Centers (Tennessee and North Carolina)
 - Convert five gasoline mowers to propane and purchase appropriate number of fueling tanks and racks
 - Install Be Our Idol Don Ptr Indie nigns at Sugarlands and Oconalufee Visitor Centers Newfound Gap Overlook and

Great Smoky Mountains National Park



Our Partners in Cri



Cornelius Willingham, Nissan USA Southeast Operations -





AMERICA

Terry Maddox, GSMA, Now

Retired Executive Director

Great Smoky Mountains National Park Facility Management Division



Lessons Learned

- Start early, plan well
- Expect the unexpected
 - Know your power supply and supplier
 - Payment Methods
 - Communication
 - Contracting
- Always costs more than you budgeted
- Training, training, training
- Communication Signage

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