

2011 GreenGov Symposium Oct. 31 - Nov. 2, 2011 Washington Hilton * Washington, DC



Air Force Sustainability Initiatives

HON. Terry Yonkers

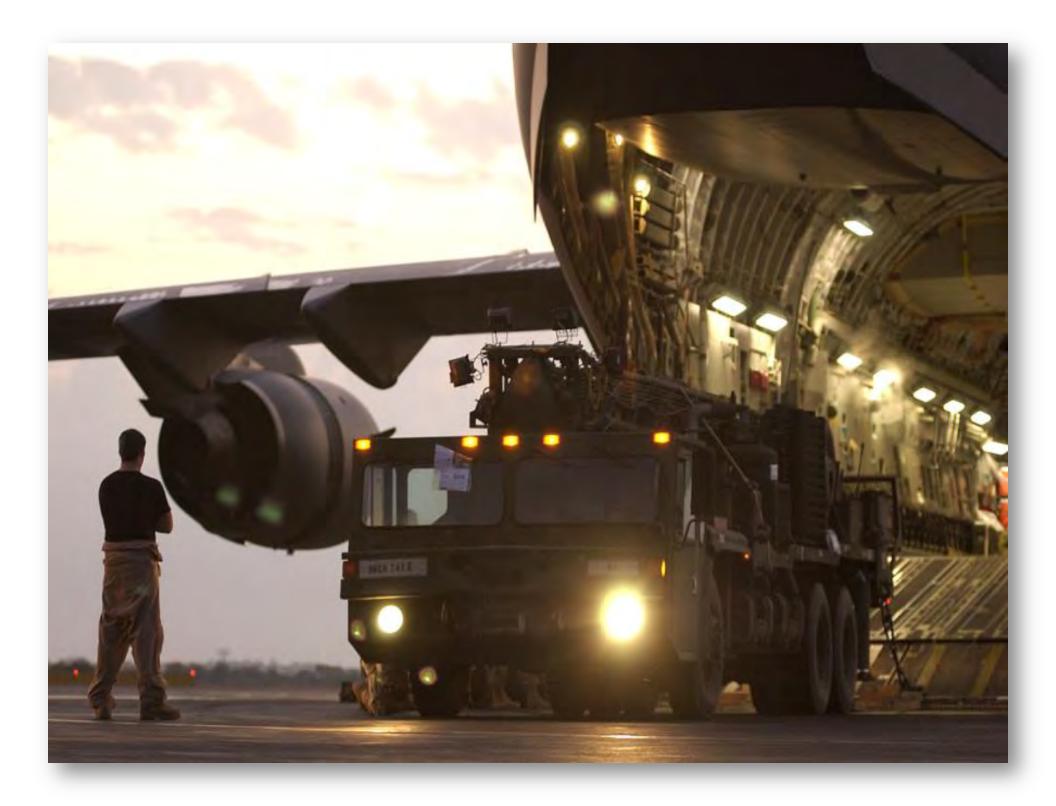
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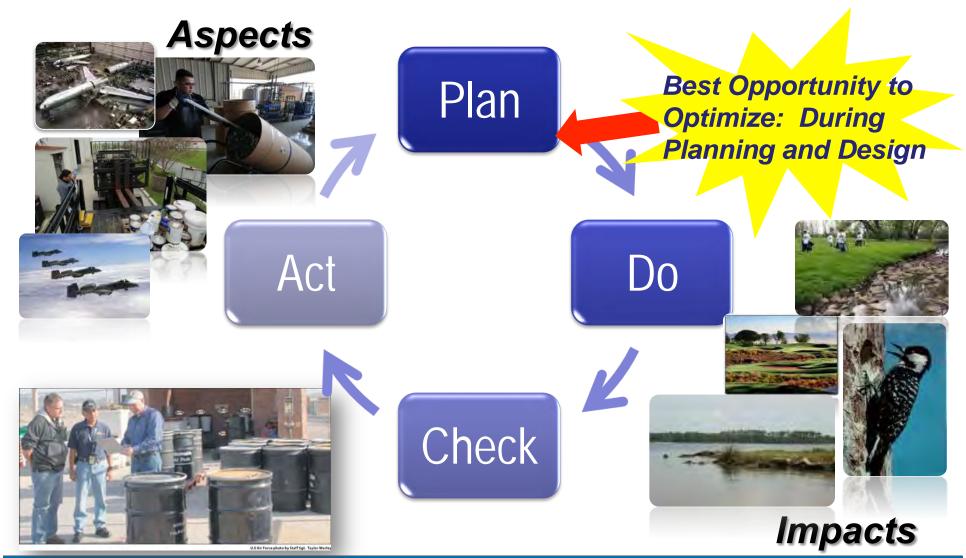






Sustainability Management Framework - EMS

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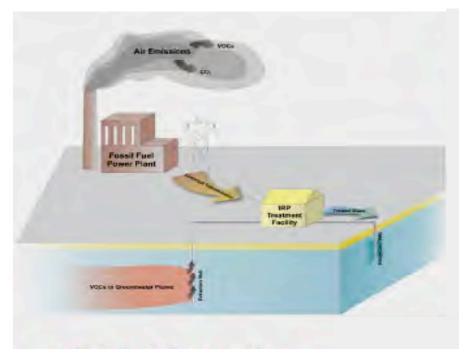
Sustainable Planning & Design greengov

Planning Indicator		Charleston Supply Demand Headroom Rating			Planning Indicator		Charleston Supply Demand Headroom Rating			
	Supply									
ENERGY						Green House Gases				
from A7CAE (Demand=Total Reportable Consumption)	n-Cont/REI				Facility Electricity (GHG Target Subject)		34,827.50			
from A7CAE (Intensity=Total MBTU/SF)	Legend	for Natural Infrastru	ucture Asse	ssment (NIA	A) Data	Facility Fuel Combustion (GHG Target Subject)		5,139.30		_
Energy Intensity (MBTU)	N-rating	Description			WASTE REDUCTION	17 1 17 1 177 (4)				
Energy Cost (\$/Sq Ft)	74.4	N-0 – Opportunities			Non-HAZ Waste Reduction (Tons)	Very	ery Low Vulnerability (1)			
Enery Consumption (MBTU)	N+0			Construction Waste Reduction (Tons)		taran da antara da a				
Energy Cost (\$/yr)**	44.5	N-1 – Resource is capable of fully supporting the mission of								
	N-1	assigned units, organizations, and/or tenants with acceptable				COMMUNITY PLANNING Land Use: In-Fill	Low Vulnerability (2)			
Renewable Energy Projects & Purchases (Electric		regulatory or permit constraints.				Land use: In-Fill				
Existing	Obs	N-2 – Resource is capable of supporting the mission of assigned units, organizations, and/or tenants with minimal regulatory or			ENROACHMENT	Moderate Vulnerability (3)				
Externing	N-2				% Incompatability					
Potential (Planned, Budgeted or Funded)		permit constraints. N-3 – Resource capability presents challenge to the mission of				CZ				
	200					APZ 1 APZ 2				
Contribution to Energy Reduction	N-3	assigned units, organizations, and/or tenants due to moderate regulatory or permit constraints.			APZ Z	Vulnerable (4)				
MANY WATER STREET						NATURAL/CULTURAL	Vulliciable (+)			
Vehicle/Eqpt Fuel Consumption	1000	N-4 – Resource capabil		the same of the same of the same of		Wetlands				
Petroleum	N-4	mission of assigned units, organizations ,and/or tenants due to				Archaeological Sites	Little Marker and State (F)			
Alternative		significant regulatory or permit constraints.				Historic Facilities	High Vulnerability (5)			
WATER CURRING						Land Use-Nat/Cul Areas				_
WATER SUPPLY		27 400 420 00	720 004 00	20, 420, 225, 00	ALD	EXTERNAL SUSTAINABILITY				
Water Supply (avg gal/day)		27,168,139.00 27,168,139.00	739,804.00	26,428,335.00	N-0 N-0	<u>Urban Sprawl</u> (High, Med, Low)			High	
vvater Supply (peak gai/day)	Water Supply (peak gal/day)		936,133.00	26,232,006.00	neu .				(see Strom	
WATER DISCHARGE										Thurmond Institute of Govt & Public
			727,986.00	663,014.00	THE	and the second second				Δ ffaire \
Water Discharge (avg gal/day)		1,391,000.00 1,391,000.00	947,258.00	443,742.00	N-Q N-Q	Increase in Regional Growth Rate			2.4208	
Water Discharge (peak gal/day)		1,331,000.00	341,230.00	443,142.00	19-17	Regional Population Growth			8.57684	
WATER QUALITY						Regional Land Urbanization*			10.73448367	
Water Supply (current)					N-1	Housing Affordability			33.94	
Water Supply (tutrent)					N-1	Housing Availability			. 15	
Storm Water Discharge					NA	Climatic Vulnerability (2030 or 2050 timeframe?)				
Storm Water Receiving Body (current)					N-2	Drought				
Storm Water Receiving Body (future)					N-2	Federally Declared Floods			0	
Storm vvater Receiving body (tuttile)					14-2	Flood Risk*	ALD SAA			High
AIR QUALITY						Sea Level Rise (flooding expected to be caused by				< 1 meter
Air Quality (Attainment/Nonattainment)		Attainment			N-0	<1 meter, >1 meter, N/A)			4.50	
Pollutants in Nonattainment		Attainment			100	Temperature Rise Impact			Low	
		Synthetic Minor /				Precipitation Pattern Changes				Low 120
Air Permit		Title IV				Seismic Zones				197
Nox (tons/year)		100.00	10.42	89.58		Storm Surge/Intensity			Med 0.0092	
SO2 (tons/year)		100.00	10.72	00.50		Tornados			contra	
PM (tons/year)						Lightning Density Wildfires				
- in tour year)		32.22	U 23			Wildings				



Sustainability Application: MMR Remediation Project

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Electricity Generation to Power IRP Remedial Systems Results in Air Emissions Including Greenhouse Gases

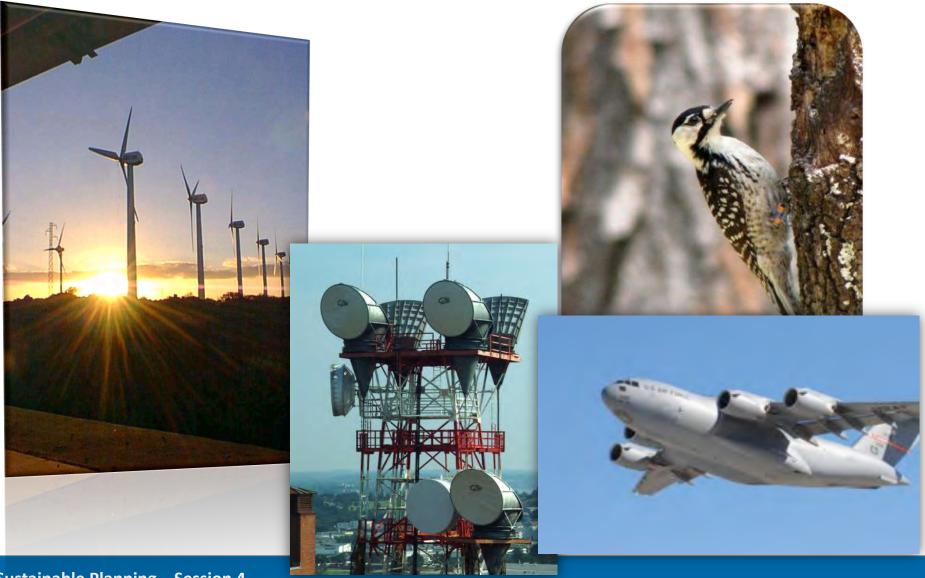


Wind power to offset green house gas production



AF Encroachment Management Program





Sustainable Planning – Session 4 Implementing, Monitoring & Measuring the Success of Sustainability Plans



Conservation Successes

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Pollution Prevention

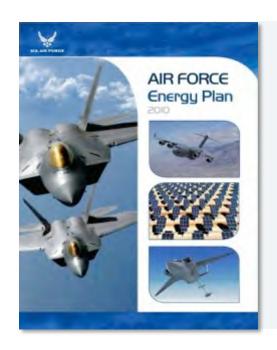
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Air Force Energy Plan





3-PART STRATEGY

- Reduce Demand
- Increase Supply
- Change the Culture



ENERGY VISION: Make Energy A Consideration In All We Do



Reduce Demand







Increase Supply







Change the Culture





