

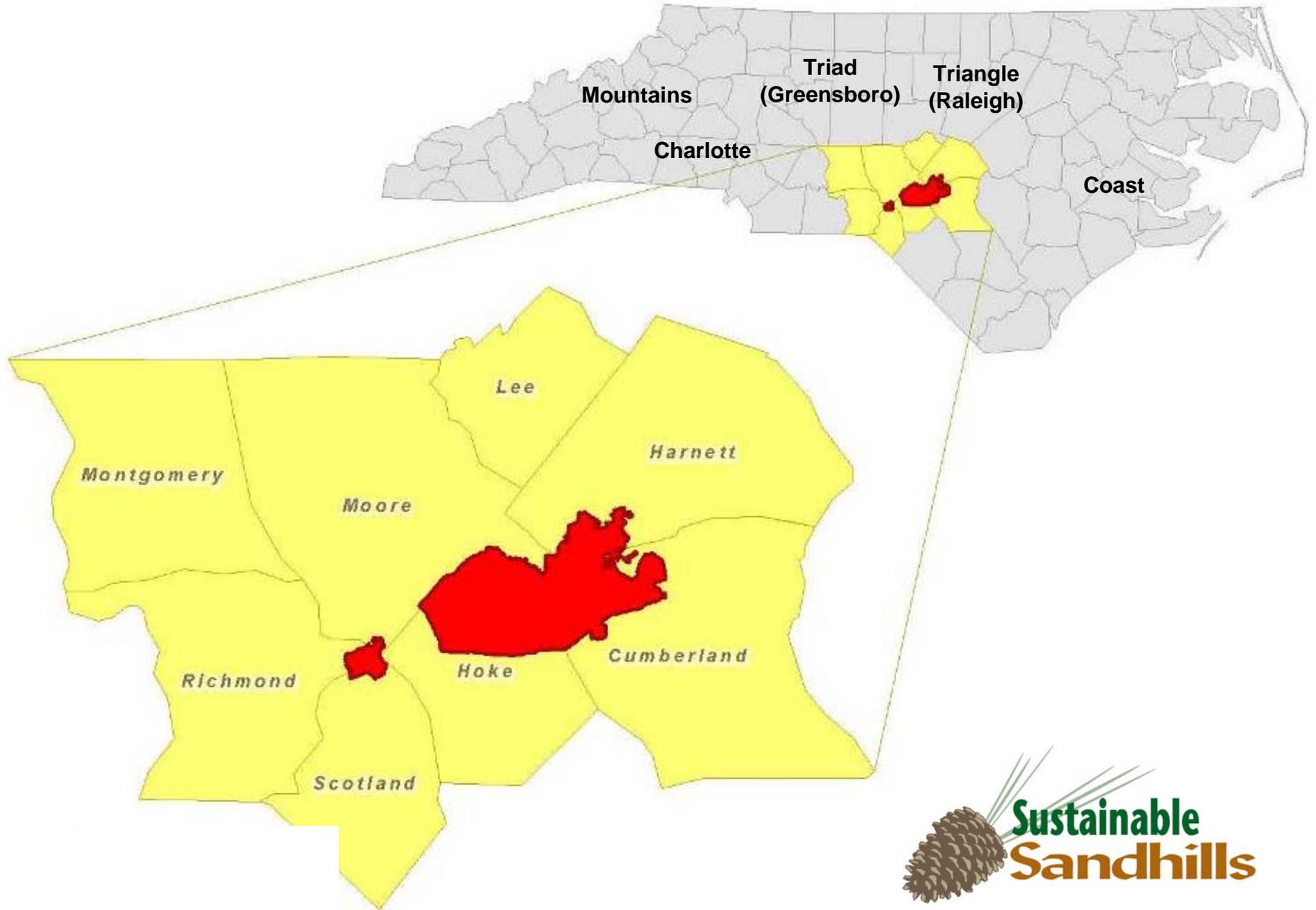


A Regional Sustainability Initiative

Jon Parsons, P.E.

Executive Director



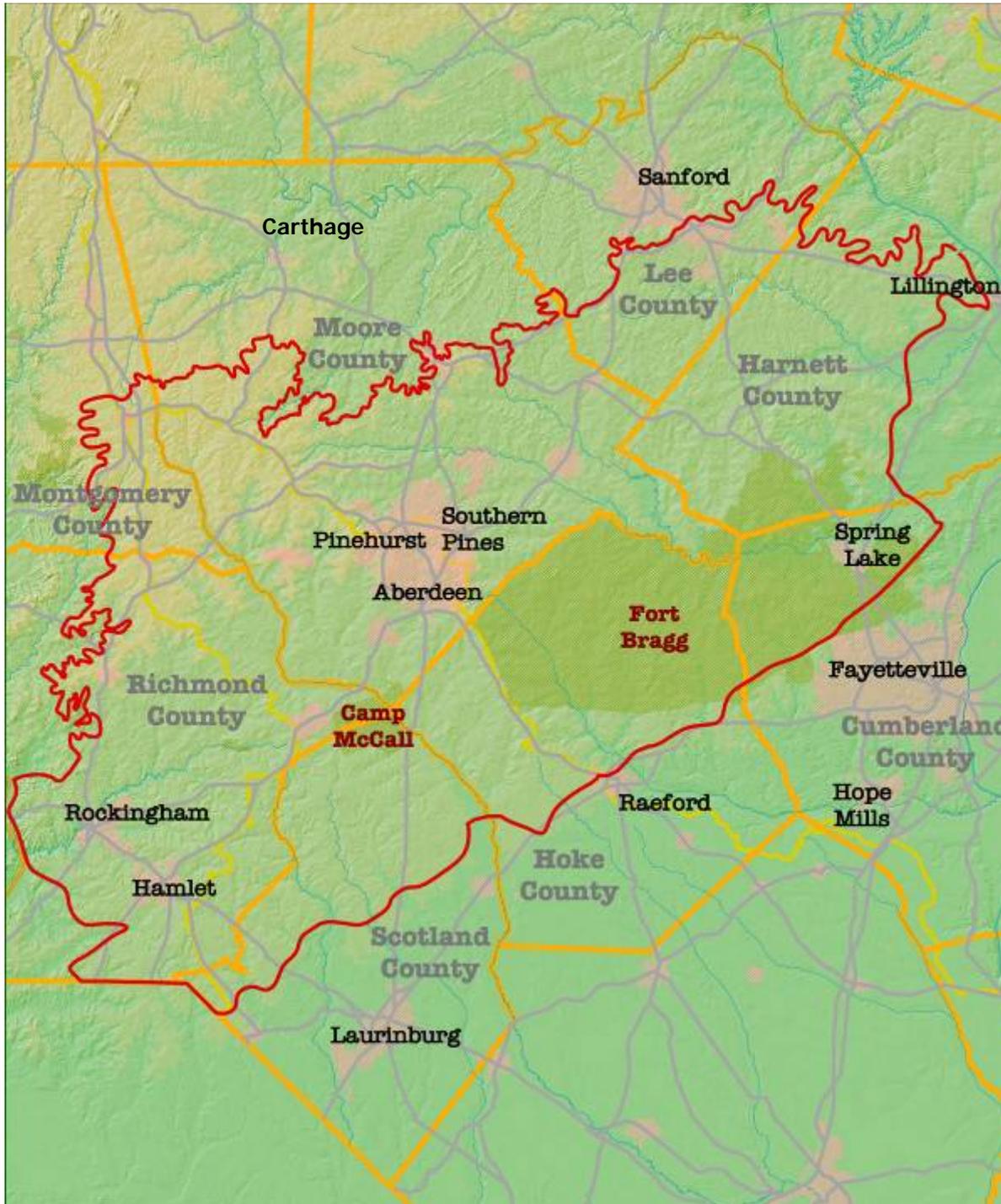




Sandhills Ecosystem

*Cumberland (11%)
Harnett (36%)
Hoke (59%)
Lee (33%)
Montgomery (10%)
Moore (58%)
Richmond (67%)
Scotland (41%)*

**2,507,600 Total Acres
977,600 Acres (39%)
of Sandhills Ecosystem**







BRAC Population Impact Estimates

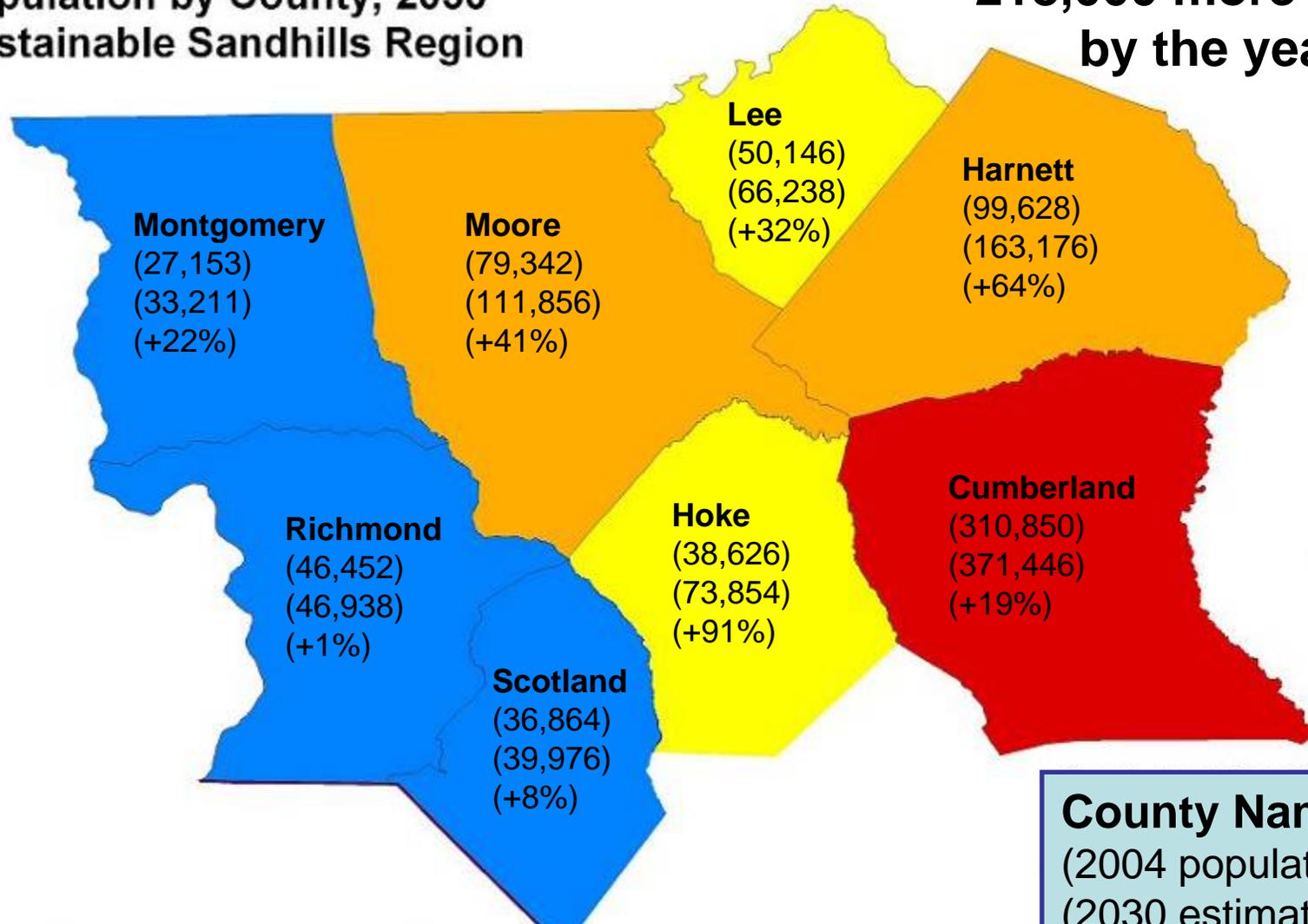
- Current Army personnel at Ft. Bragg: 43,308
- Army personnel by end of 2011: 58,027

Military/DA Civilian Net changes: +14,719

Changes with families: +26,494

**Population by County, 2030
Sustainable Sandhills Region**

**218,000 more people
by the year 2030**



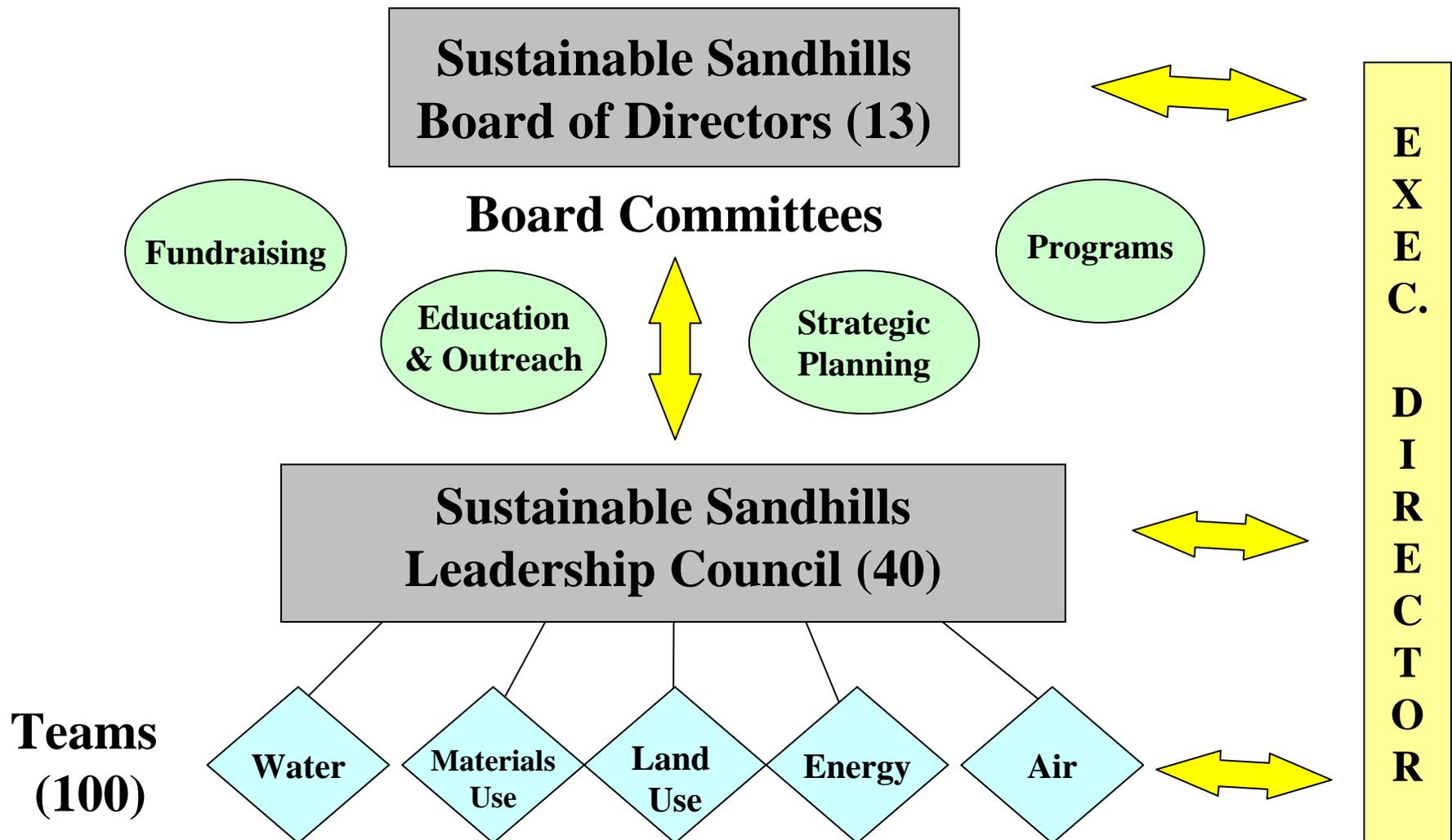
Additional BRAC impacts (+30,000?) NOT included!

County Name
(2004 population)
(2030 estimate)
(% growth est'd)

Sandhills Population: 689,061 (2004), est'd 906,695 in 2030



Organizational Structure





Compatible Structures Leveraging Installation Expertise

Sustainable FORT BRAGG

- Water Use
- Water Quality
- Waste Reduction
- Green Purchasing
- Green Building
- Energy Conservation
- Air Quality - Commuting
- Air Quality – Alt Fuels
- Land - Compatible Use
- Land – Training

Sustainable SANDHILLS

Water Team

Materials Use Team

Energy Team

Air Team

Land Use Team

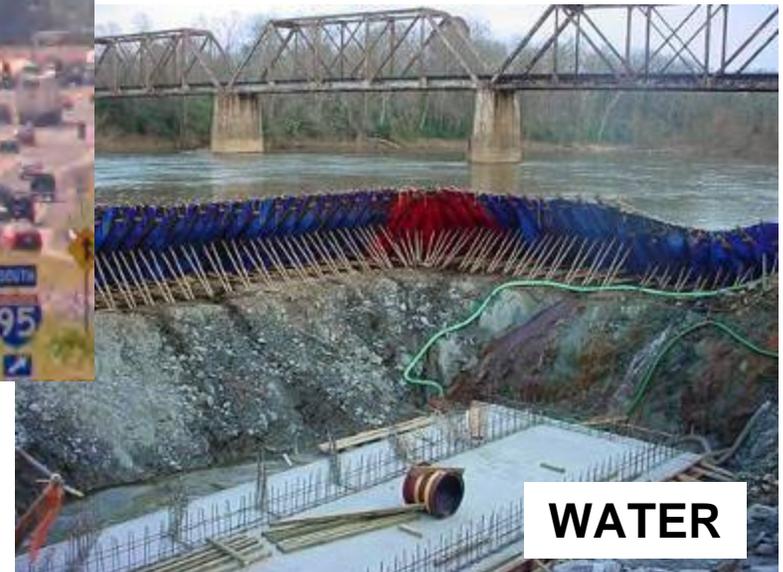


Sustainable Sandhills Membership

- **Federal:** Fort Bragg, USEPA, ACE, FWS.
- **State:** NCDENR, Commerce, and Transportation.
- **County:** Commissioners, managers, planners, extension agents, economic developers, COG's.
- **Municipal:** Council members, managers, staff.
- **Education:** FSU, Campbell U, Methodist College, St. Andrews U, 4 CC's, NCSU, Duke University.
- **Business:** COC/CVB, energy utilities, plant managers, homebuilders/realtors, health care....
- **Other Nonprofits and Private Citizens**



5 Community Resource Teams





TEAM Functions

Raise Public Awareness

Provide Targeted Education

Promote Pilot or Demonstration Projects

Perform Detailed Analysis

Develop Decision Support Tools



MATERIALS USE TEAM

GOAL: Zero Waste

Objective 1: Present **Awareness & Education programs.**

Objective 2: Promote Reduce/Reuse/Recycle programs.

- **Targets:** Waste reduction and recycling programs.

Objective 3: Increase the utilization of recycled materials.

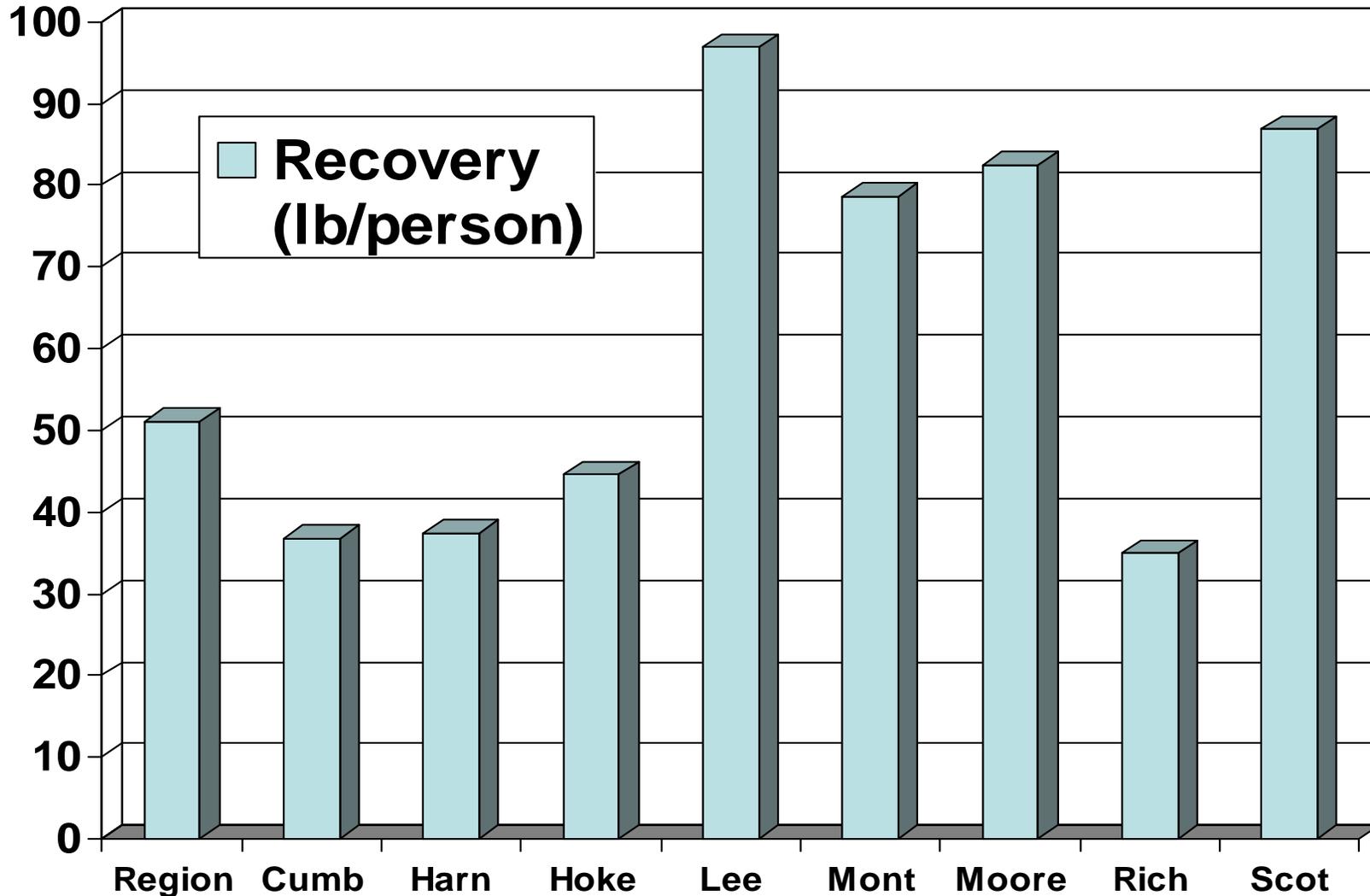
- **Targets:** Foster recycling business & markets; Green procurement.





Sandhills MSW Recovery Rates

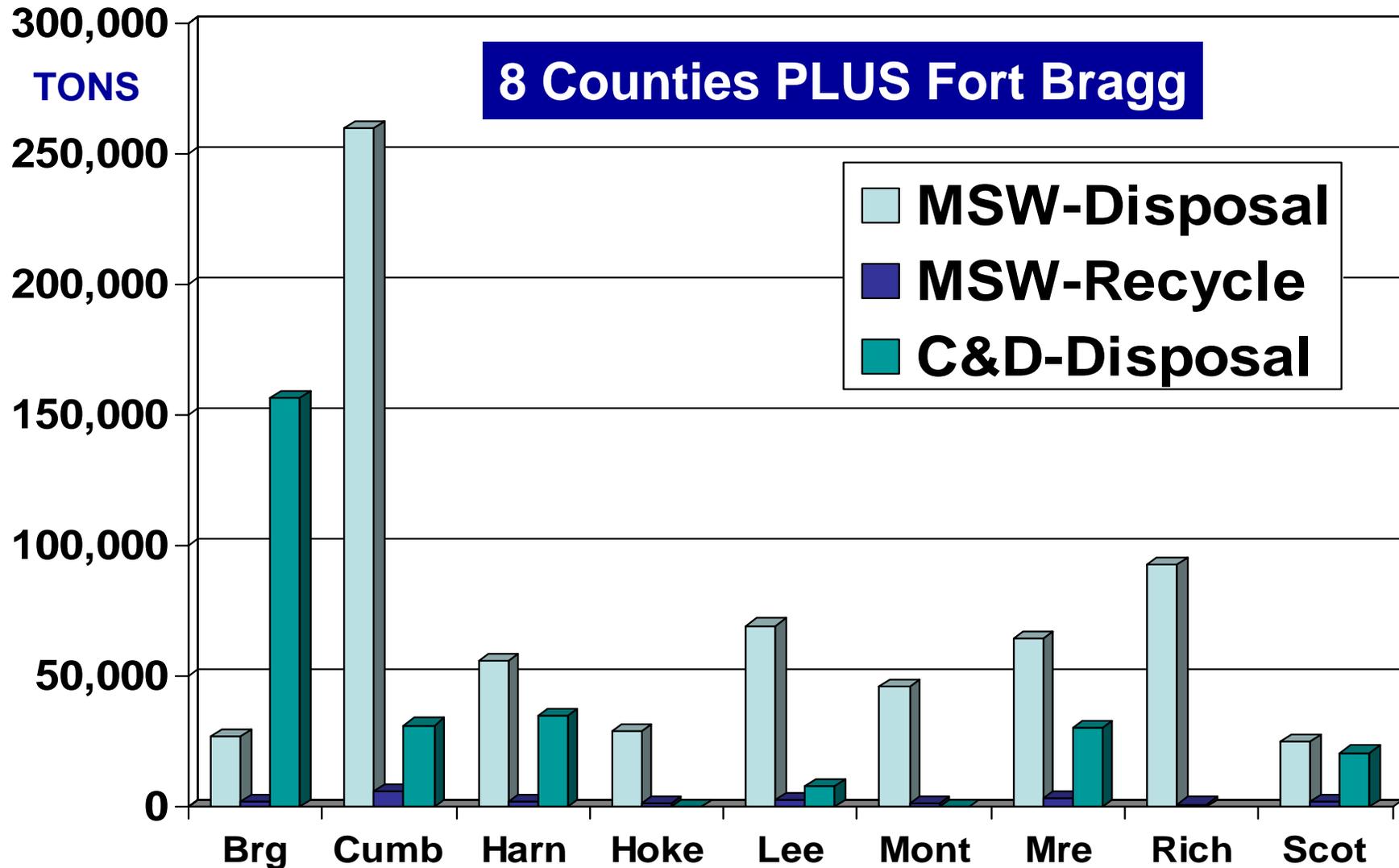
July 2004 thru June 2005





Sandhills Solid Waste Summary

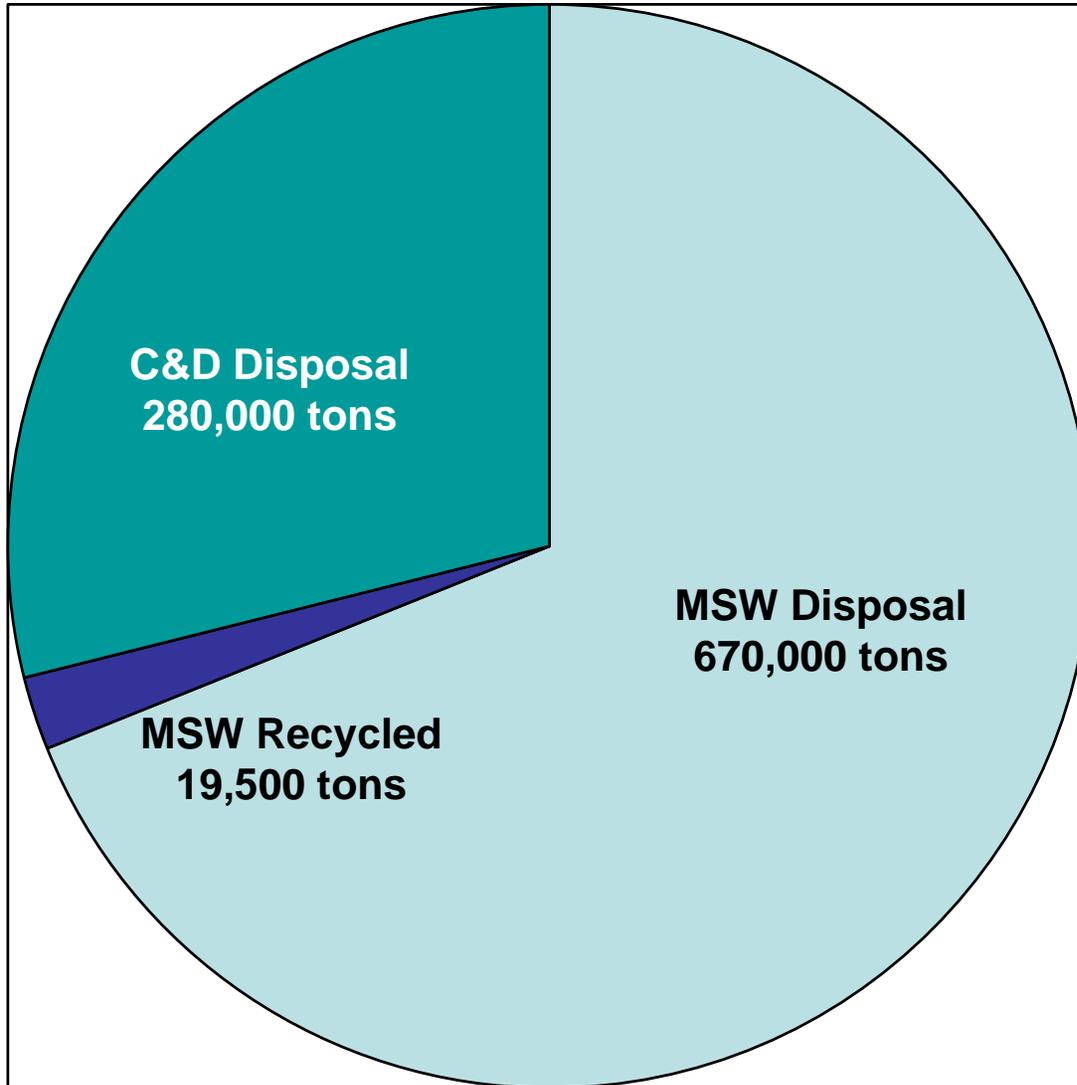
July 2004 thru June 2005





Sandhills Solid Waste Breakdown

July 2004 thru June 2005



WHAT IT IS....

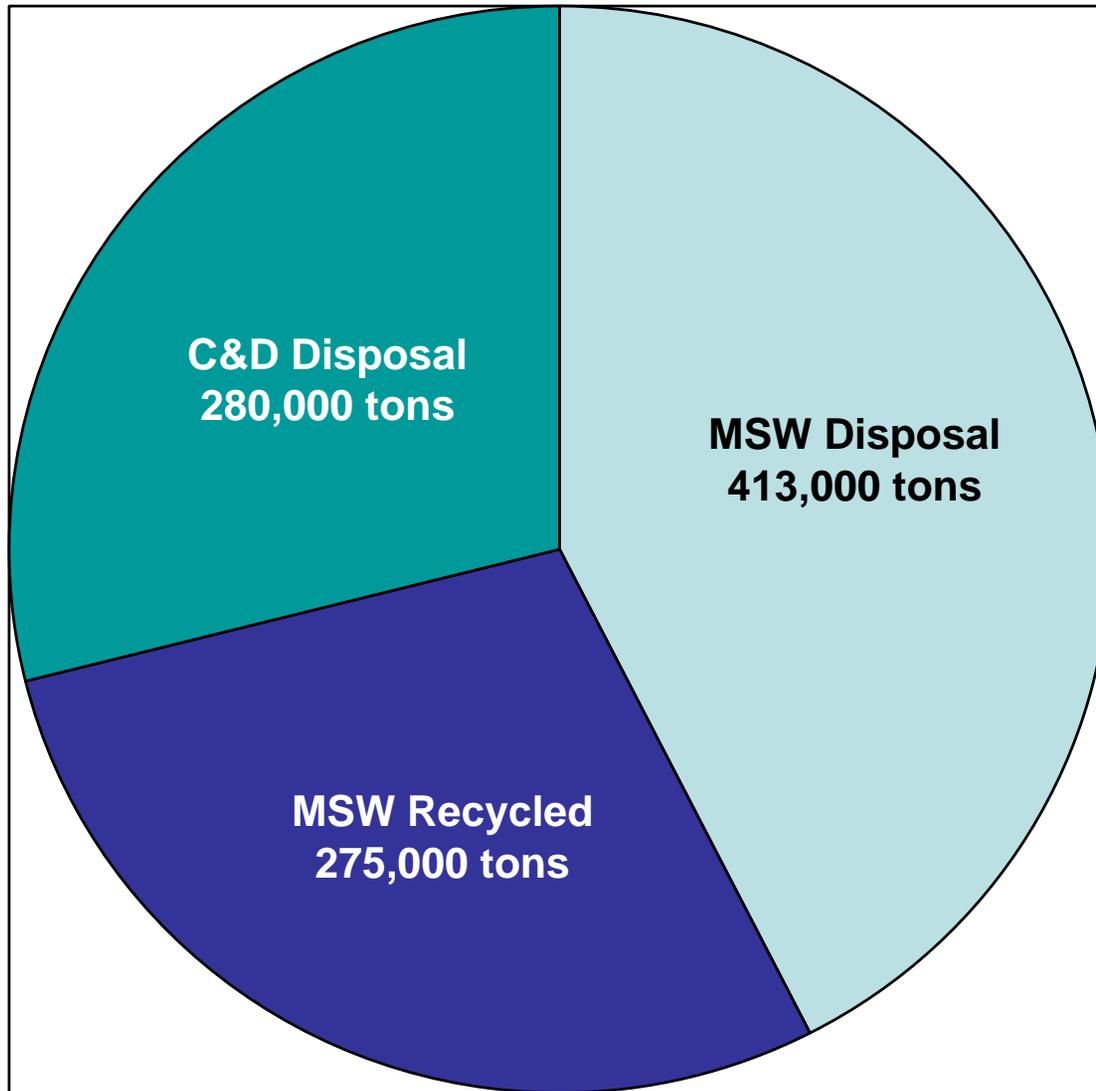
2.8% of MSW stream is recycled.

- MSW Disposal
- MSW Recycling
- C&D Disposal



Sandhills Solid Waste Breakdown

July 2004 thru June 2005



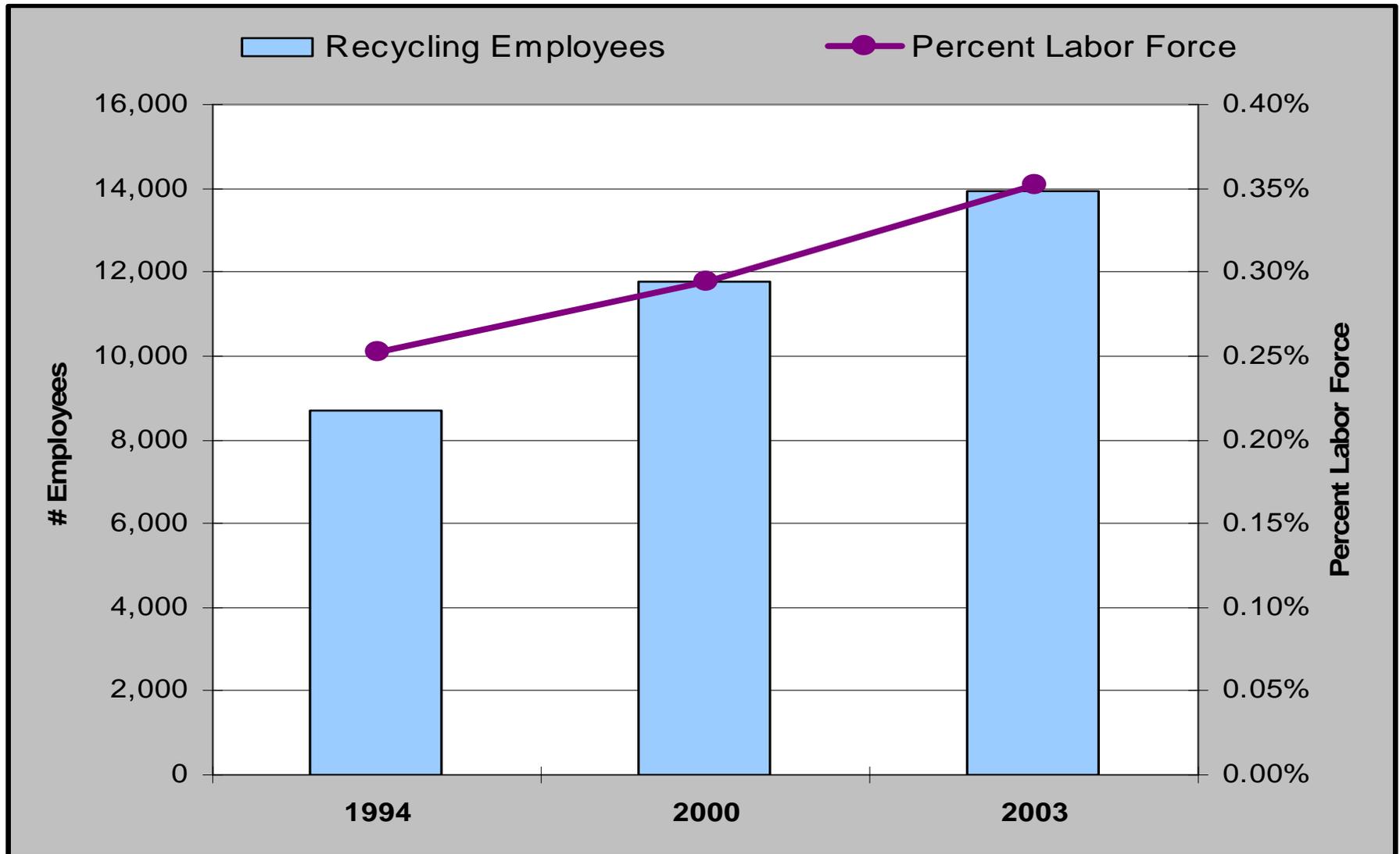
WHAT IT COULD BE!!

If 40% of MSW stream
was recycled –
Another 250,000 tons
of material to starving
recycled mat'l markets!

- MSW Disposal
- MSW Recycling
- C&D Disposal



GROWTH OF RECYCLING JOBS in North Carolina





ENERGY TEAM

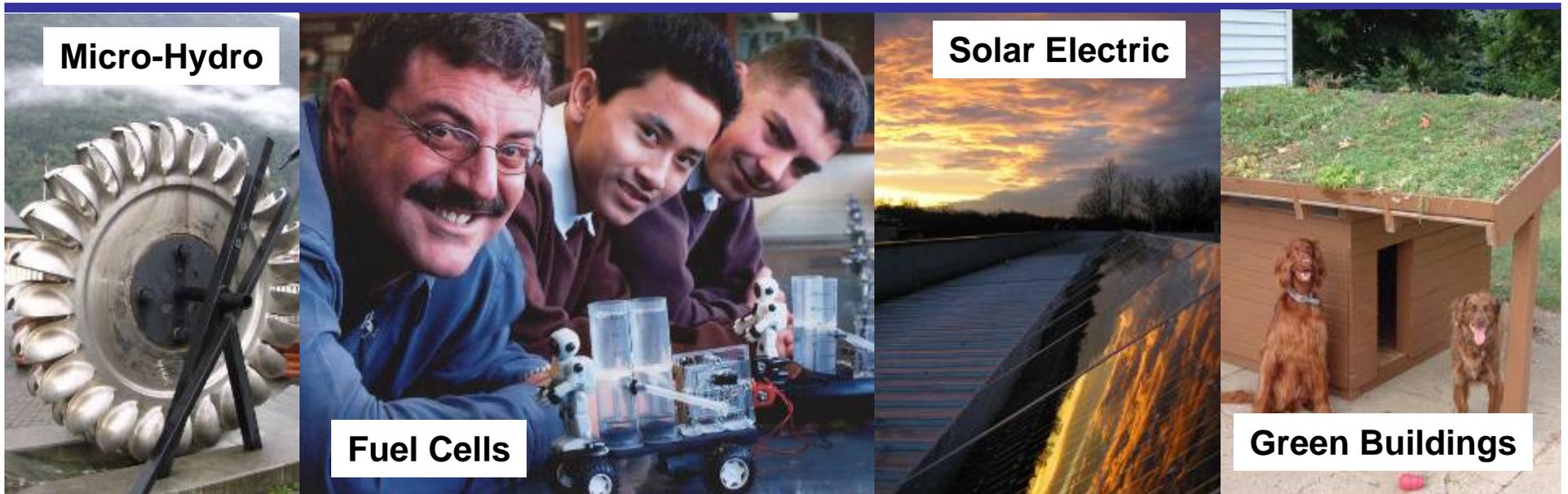
GOAL: ZERO Carbon Emissions

Objective 1: Present Awareness & **Education** programs.

Objective 2: Promote Energy Efficiency and Conservation.

Objective 3: Increase the Utilization of Renewable Energy.

Objective 4: **Promote Green Building.**





ENERGY TEAM

Targeted Education and Green Building

May 2006

“Solar Domestic Hot Water Systems” (plumbers,elec’ns, A/E)

June 16, 2006

“Healthy Built Homes” Orientation (homebuilders, realtors)

September 18-22, 2006

“Distributed Generation: Wind & Solar Electric Applications”

FALL 2006

“Green Schools” conference (Eastern NC school districts)





AIR TEAM

GOAL: Excellent air quality

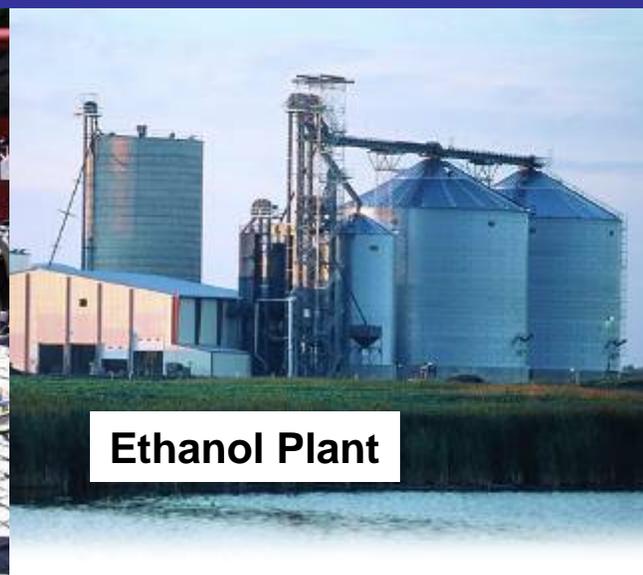
Objective 1: Present Awareness & Education programs.

Objective 2: Develop a regional transportation plan.

Objective 3: Mobile Source emission reductions.

- **Targets: Increase alt-fuel USE and PRODUCTION in the region.**

Objective 4: Stationary Source emission reductions.



Alt-fuel PRODUCTION

- Grain Grower's Co-op: 20-30 MGY
- Filter Specialties in Autryville: 1.6 MGY

Alt-fuel USE – no retail stations in region.... YET!!

- FFV fleet – 200/Bragg, 200/State, 1000+ POV's.
- B20 – 1000 school buses, 200 COF, 16 FAST buses, Bragg non-tactical diesel fleet...





BRAC Planning Committees **[Fort Bragg Region]** **[Sustainable Sandhills Involvement]**



- **Housing: on and off installation**
- **Transportation (roads/rail/airline)**
- **Schools: DOD; private; public**
- **Business and Defense Contractors**
- **Workforce/employment**
- **Infrastructure: Public Works & Safety/Recreation**
- **Medical: on and off installation**
- **Growth Management Planning: Compatible Development**
- **Arts and Culture**
- **Meetings/Conventions/Special Activities (Secure space)**



BRAC Regional Task Force Members [Fort Bragg Region]

[Sustainable Sandhills counties]



Tier 1: Direct and Significant Adverse Consequence

Four Counties:

Cumberland County
Harnett County
Hoke County
Moore County

Military (Ex-Officio):

Ft. Bragg
Pope AFB

Tier 2: Information, planning and marketing

Seven Counties:

Bladen County
Lee County
Richmond County
Robeson County
Sampson County
Scotland County
Montgomery County



BRAC Regional Task Force: [Fort Bragg Region]



Other members:

**NC Military Business Center
Workforce Development Boards
Regional Land Use Advisory Committee
Sustainable Sandhills
Councils of Government
Community Colleges
UNC System
County Boards of Education
Regional Economic Developers
County Economic Developers
Chambers of Commerce
Law Enforcement
Regional DOT**

State agencies:

**NC DOC
NC DOT
Others as required**