

RECYCLING PROGRAM

**Fund 123
Capital Fund 171 - RCY**



MISSION STATEMENT

The goal of the Department of Solid Waste is to reduce waste by developing and enhancing the recycling program while creating partnerships with local municipal governments, businesses, schools, civic groups and individual households. We will reduce waste, create jobs and educate the public on environmentally friendly waste disposal.

Solid Waste Management in Tennessee

TCA 68-211-873 Annual report to governor and general assembly.

The department shall prepare an annual report to the governor and general assembly on the state's solid waste management system.

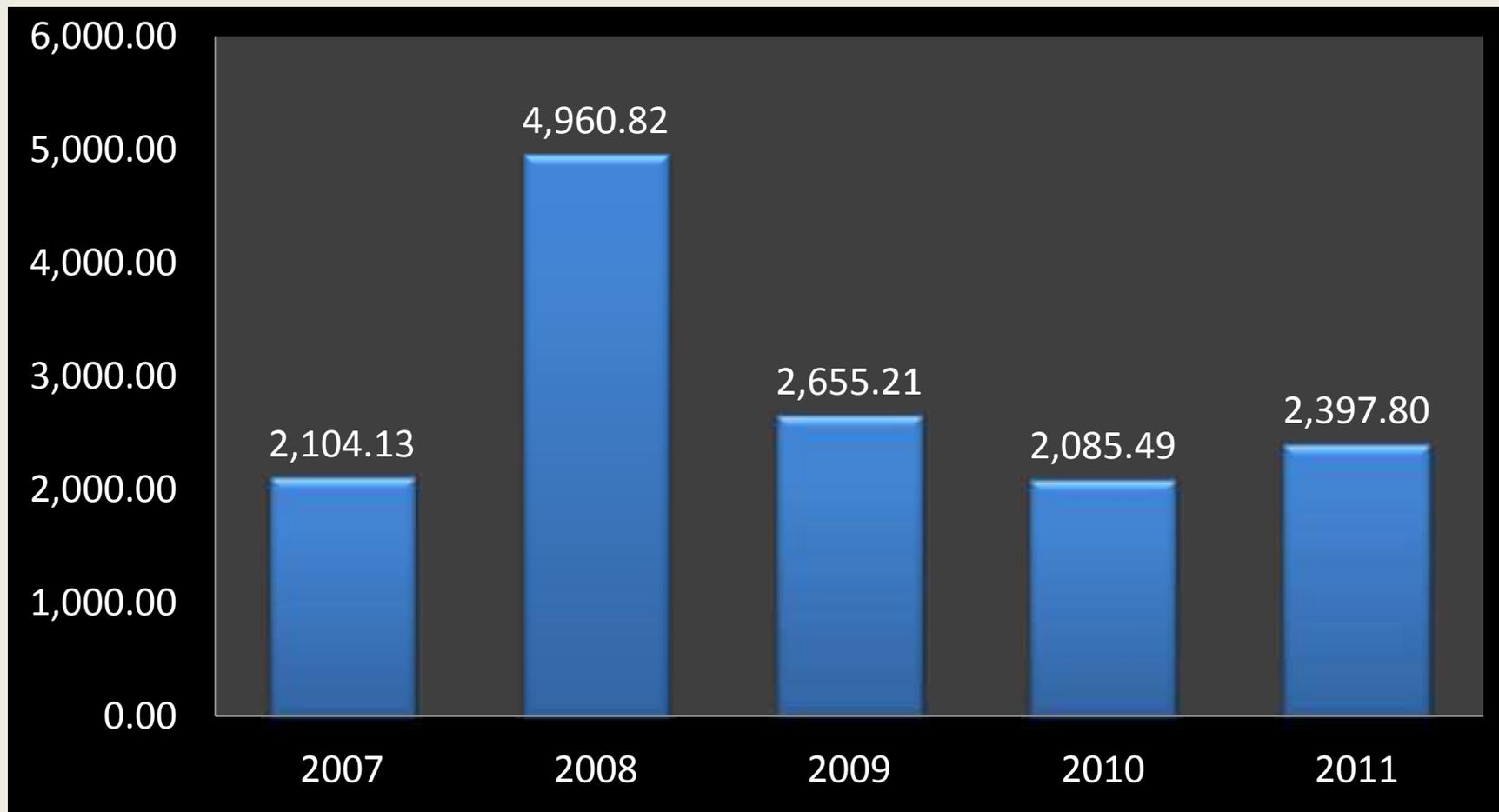
Each county in Tennessee is required to file a Solid Waste APR (Annual Progress Report) with TDEC (Tennessee Department of Environment and Conservation) every March 31. APRs address such issues as local solid waste collection systems; solid waste disposal systems (landfills and incinerators); local funding for solid waste programs and activities; recycling, composting, source reduction, and diversion activities; solid waste education programs; disposal of problem wastes such as used tires, automobile fluids, used paint, etc.

Periodical reviews of the department and outside organizations. Improvements are proposed for Roane County Convenience Center and Recycling Programs.

Roane County APR Results

Total Annual Recycling Tonnage

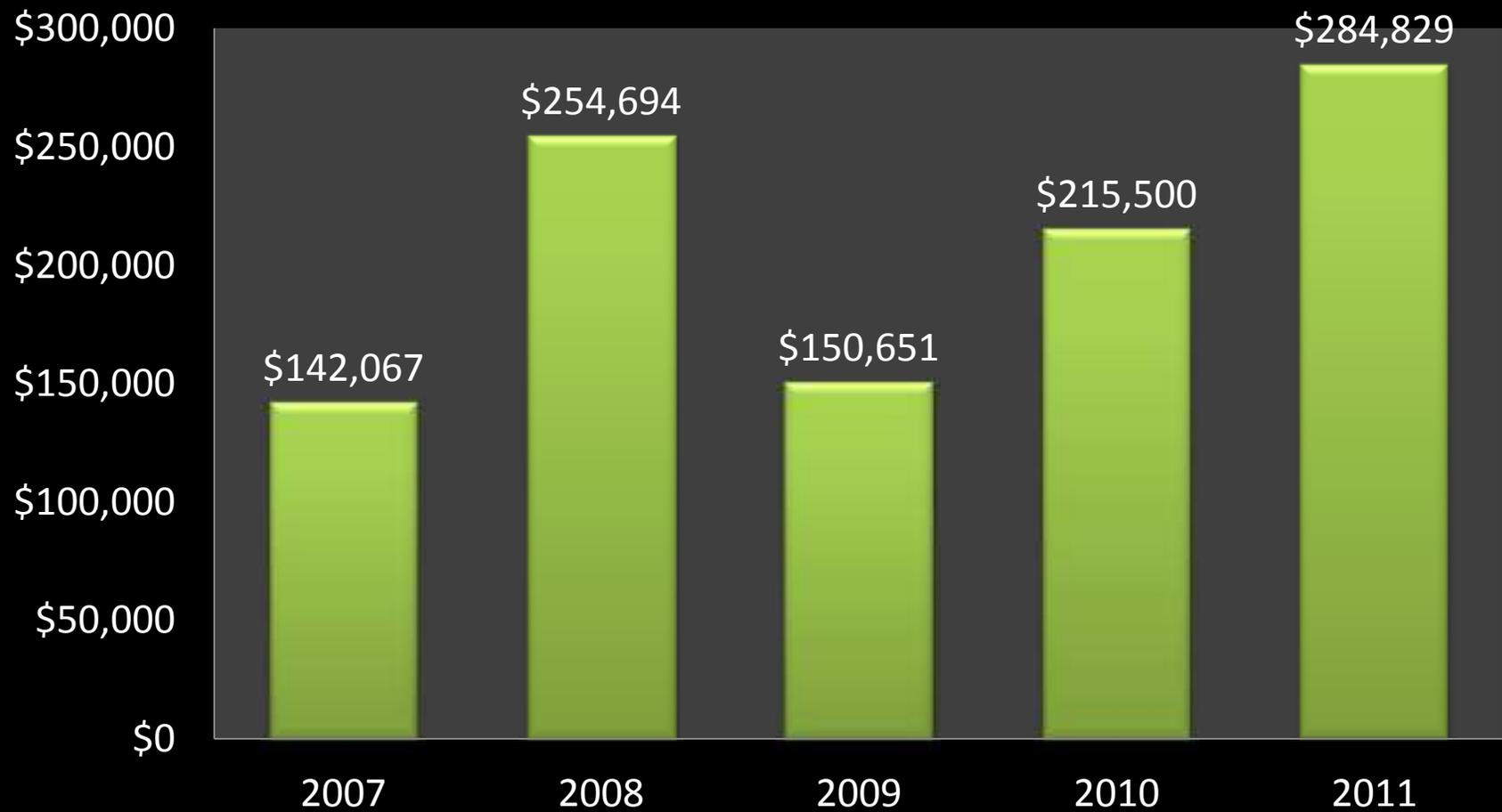
2007-2011



Roane County APR Results

Total Annual Recycling Revenue

2007-2011



5 Phases of Recycling Improvements

Phase 1: Development of storage area for recyclable materials

Phase 2: Employee Parking Lot/Storage Building

Phase 3: Improve Receiving/Recycling Area/Traffic Control

Phase 4: Additional Recycle Building and Storage

Phase 5: New Baler and Reconfiguration of Recycle Building



Study Review of Operation

The county requested that the University of Tennessee review, study and recommend any operational changes to Roane County's Recycling Program. Center for Industrial Services (CIS) and County Technical Assistance Service (CTAS) conducted the study in February 2013 and submitted the results along with recommendations to the County Executive on May 20, 2013.

PHASE 1

Relocation of Storage Area for Recyclable Materials

- **Located behind the Recycling Center Building**
- **Reclaimed unused land creation of recycle storage area**
- **Used for Household Hazardous Waste Collection Day.**
- **Contains approximately 4 acres**

PHASE 1

Reclaimed unused land for creation of recycle storage area

BEFORE



UNDER CONSTRUCTION



PHASE 1

COMPLETE



Use of Phase 1 After Construction HOUSEHOLD HAZARDOUS WASTE DAY



HHW 2013 RESULTS

**4,646 POUNDS OF
HOUSEHOLD
HAZARDOUS
WASTE
COLLECTED**

**STATE SPONSORED
(ROANE COUNTY SAVED)
\$12,344.33
in disposal fees**



PHASE 2

Employee Parking Lot/Storage Building

- **Employee parking lot and storage building at entrance on left of the Recycle Center/Landfill**
- **Build parking lot to relieve parking and storage around the main Recycle Center making recycle building more functional**
- **Contains approximately 1 acre**

PHASE 2

Clearing entrance/exit of Recycle Center and creating parking lot. Replacing old storage building with new storage building that is in the new employee/visitor parking lot.

BEFORE



PHASE 2 COMPLETE



PHASE 3

Improve Receiving/Recycling Area/Traffic Control

- **Improvement to the recycling/receiving area and the landfill convenience center receiving area**
- **Engineer plans for safer handling and storage of material and rerouting traffic for easier and safer access.**
- **Contains approximately 1 acre**

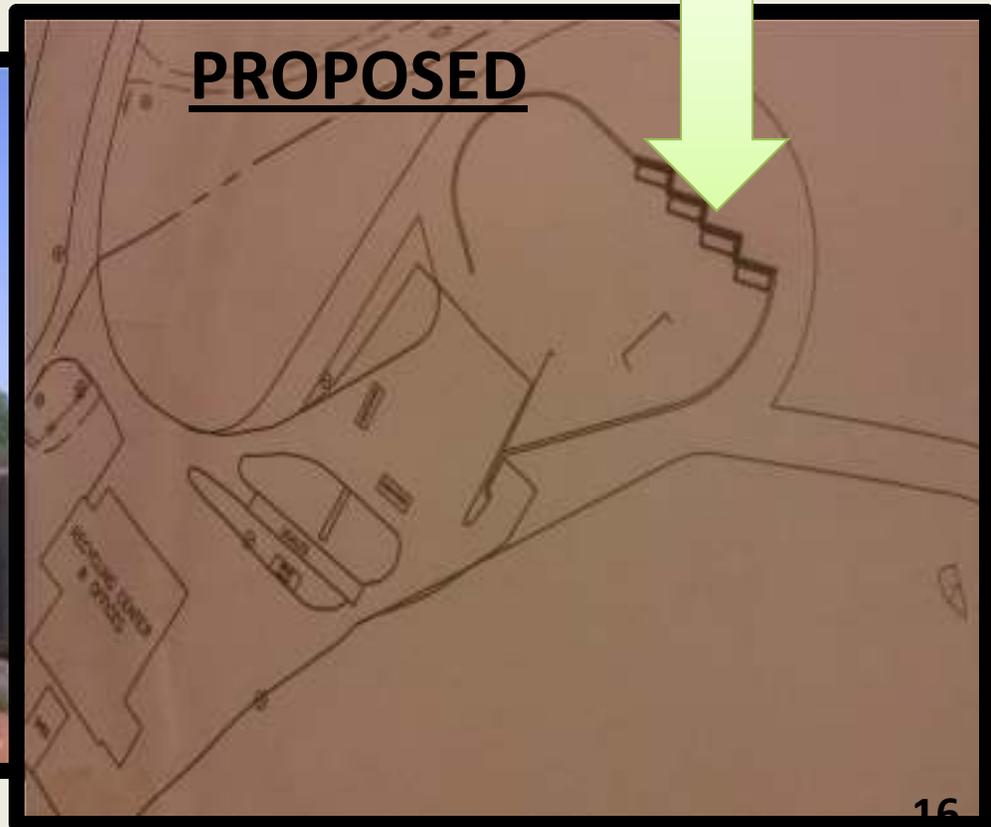
PHASE 3

Constructing retaining wall for safer handling and storage of material, rerouting traffic for easier access and safety. Project on hold after unsuccessful bid. Currently under review by engineer.

CURRENT



PROPOSED



PHASE 3

Status

Limited work has taken place on Phase 3. The project was bid and all bids rejected due to cost. Limited grading took place as Phase 2 was being constructed. Reengineering has taken place with budget and timeline being reevaluated. Preliminary schedule for Phase 3 is 2015 or 2016.

PHASE 4

Additional Recycling Building and Storage

- **Proposed additional recycling building and storage area on the hillside east of the existing receiving area.**
- **Allowing for additional recycling**
- **Possible resale to public of discarded reusable items. Preliminary schedule to extend possibly to 2016.**
- **Allow for storage to keep recyclable items from degrading in value for sale.**

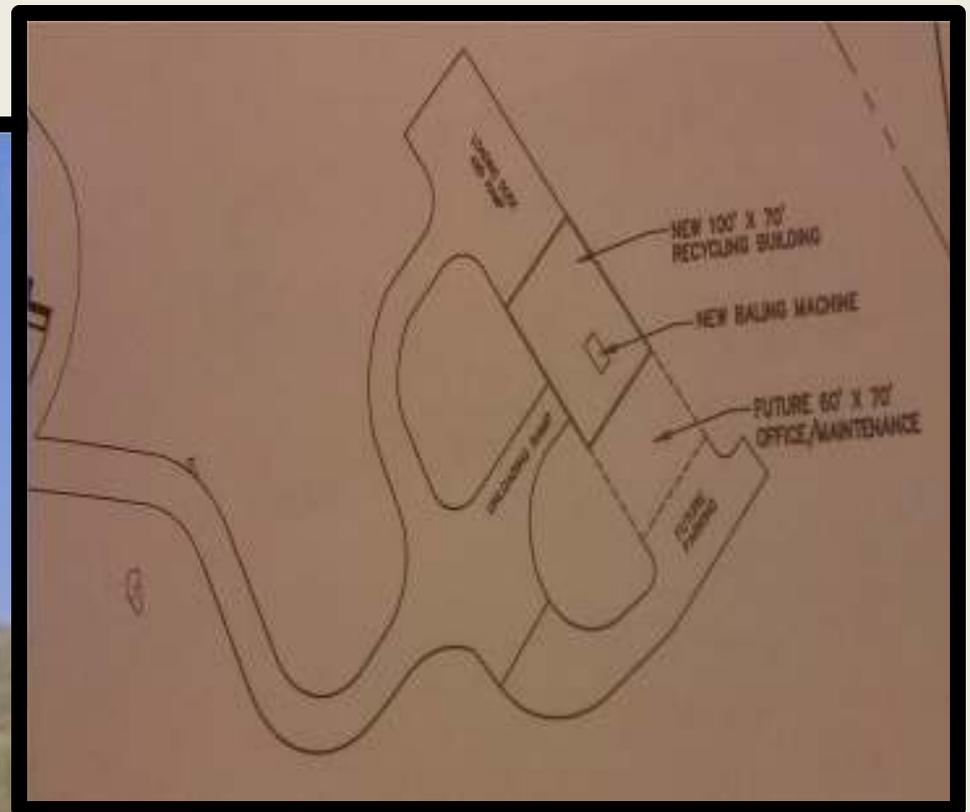
PHASE 4

Construction of an expanded work space either attached to current work space or detached from existing building. CIS recommendation. On hold reviewing cost and engineer design.

CURRENT



PROPOSED



PHASE 5

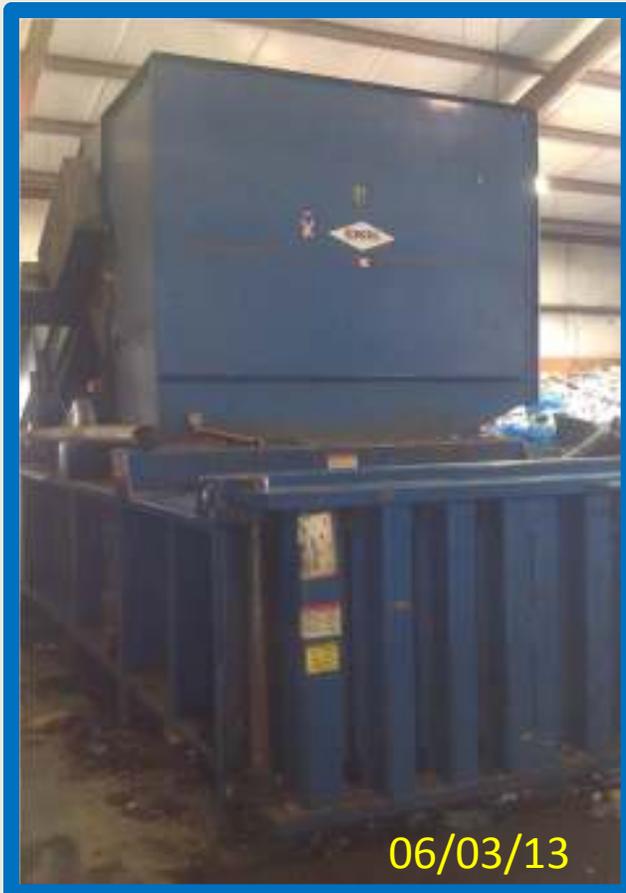
New Baler and Reconfiguration of Recycle Building

- **Changing the layout inside the existing recycling building**
- **Purchase of a new baler to improve efficiency in recycling operation based on CIS/CTAS study**
- **Projects were reviewed and prioritized, Phase 5 was budgeted for 2014.**

PHASE 5

Purchasing of a baler capable of larger loads and self-restraining ability. Current baler to be overhauled and used on smaller projects and backup.

CURRENT BALER



06/03/13

PROPOSED FUTURE BALER



Summary

The Department of Solid Waste has developed a conceptual 1-5 year implementation plan which covers many of the bullet points covered in this document. The plan includes completion of all five phases of construction, expanding the capabilities of our convenience centers and recycling operations , expanding municipal recycling programs and increasing public awareness and education.

Reference: Executive Summary #9, Executive Summary #21, CTAS/CIS Report (May 2013)