

**Solid Waste Planning in NY:
The Next Generation**

Emerging Issues for State and Local Solid
Waste Management Plans

Training Session

What Makes a Good Local Solid Waste Management Plan?

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Elements of Comprehensive Local SWM Plans

360-15.9 Comprehensive Local SWM Plans

360-1.9(f) Comprehensive Recycling Analysis

www.dec.ny.gov/regs/4401.html

A Local SWM Plan must

- (1) take into account the State SWM policy/hierarchy (ECL 27-0106)**
- (2) provide for the management of all SW in the PU**
- (3) cover at least a 10-year period**
- (4) reflect and employ sound principles of SWM, natural resources conservation, energy production, and employment-creating opportunities.**

TIP: 10-year plan is the best planning scope in most instances



360-15.9(a)

Planning Unit description

(1) size of the PU

(2) municipalities, agencies, and authorities in PU

(3) population of the PU

(4) significant circumstances pertaining to PU, such as major population centers, State or federal parks, seasonal usage, large or significant industries, etc.

**TIPS: Check the original Local SWM Plan for data and sources.
Did anybody leave the Planning Unit?**



360-15.9(b)

SW quantity and types

identification of the quantity and types of solid waste generated in the PU, as identified in existing reports, studies or other available sources

TIPS: Use existing waste assessments from others, or review/revise the original SWM Plan waste assessment.

Don't forget about new streams such as e-waste and CFLs



360-15.9(c)

SWM facility inventory

proposed or existing SWM facilities used for, or have capacity to manage SW generated in the PU, and from outside the PU

1. expected life
2. current operating status

TIP: Possible information sources:
DEC, SWANA, ISRI, Yellow pages



360-15.9(d)

Future PU projections

future population

waste generation

changes to the planning unit

special conditions that may affect any of these characteristics

TIP: A chart with notes works well here.
What is going on in your area?



360-15.9(e)

Future SW changes

projections of changes to the waste stream

effects of the changes on the current and proposed management practices in the PU

TIP: Look at products in use today — they will be disposed of tomorrow.



Quick Review

Planning Unit description

SW quantity and types

SWM facility inventory

Future PU projections

Future SW changes

TIP: Ask yourself, can you do these chapters in-house?



360-15.9(f)

Comprehensive Recycling Analysis

**include items identified
in subdivision 360-1.9(f) in the Plan**



360-1.9(f)(1)

Recyclables composition, SW types, reduction strategies

Quantity and type of recyclables that could potentially be recovered

(1) composition (i.e., quantity and characteristics) of the SW presently generated and projections for future

(2) types of SW contained in the waste stream

TIP: Should be combined with other sections



360-1.9(f)(1)

Recyclables composition, SW types, reduction strategies

(3) strategies to achieve a reduction in SW destined for disposal, including:

**residential source separation/collection,
intermediate processing,
industrial/commercial recyc recovery,
composting,
public education efforts**

**TIPS: Begin with current programs.
Review the original Plan.**



360-1.9(f)(2)

Existing recovery efforts

(1) identification of existing municipal, commercial, industrial and private efforts to recover recyclables. Data must include quantity and types of recyclables recovered, and a description of recyclables recovery programs used

(2) an assessment of the impact of the proposed recyclables recovery effort on existing recyclables recovery programs.

TIP: Surveys may be necessary for some of the commercial data. Should be combined with other sections.



360-1.9(f)(3)

Markets for recyclables

- (1) review of available information to identify markets**
- (2) survey of potential markets for recyclables**
- (3) types of processing to assure market acceptance**
- (4) market services available for assistance**
- (5) restrictions to market development**

TIP: Start with www.empire.state.ny.us/recycle



360-1.9(f)(4)

Alternative source separation/ recyclables recovery programs

(1) alternative source separation/recyclables recovery programs considered

(2) the proposed program

(3) reasons for selection of the proposed program.

(4) relationship between size and capacity of disposal facilities and size and capacity of recyclables recovery program.

TIP: Should be combined with other sections



360-1.9(f)(5)(i)

Recyc Program implementation

(i) procedures for implementation of the recovery program, including:

- plan and scope of operation

- equipment to be used

- collection arrangements

- processing and storage procedures

- market agreements

- funding sources

- the entity responsible for program

 - operation and management,

- the availability of staff for implementation

TIP: Should be combined with other sections/chapters



360-1.9(f)(5)(ii - iv)

Recyc Program implementation

(ii) implementation schedule coordinated with milestone dates for progressively increasing percentages of the waste stream that will be recovered as recyclables

(iii) actions to maximize development and enhancement of markets

(iv) specific public relations and education programs to be undertaken

**TIPS: Should be combined with overall implementation schedule
Enforcement should be integrated with public education programs**



360-1.9(f)(6)

Legal/institutional analysis

(1) an identification of the laws, rules, regulations, or ordinances which could cause constraints to the selected recovery program

(2) schedule and description of local laws or ordinances to implement the selected recovery program and to develop and enhance markets

TIPS: Should be combined with other sections / chapters

Consider hauler licensing and reporting, Districting, PAYT/Quantity-based user fees



360-1.9(f)(7)

Future actions to further the SWM hierarchy

- (1) scope of existing or new recovery programs
- (2) determination that facilities are properly sized, taking into account the potential for recovery and expanding the service area
- (3) other program enhancement to promote recovery
- (4) procurement practices to use recycled products

TIPS: Buy Recycled efforts to be undertaken by the PU
State/federal legislation that should be supported

Other actions beyond the immediate control of the PU or
beyond the term of the local Plan



360-15.9(g)

Technology Evaluation

evaluation of the various technologies for storage, treatment, and disposal of solid waste within the PU

(1) sizing of SWM facilities, based on projected quantities and composition of the SW and waste generation minimization/recyclables recovery efforts

(2) costs of the various alternatives

(3) environmental, economic and social impacts of each technology

TIPS: Critical if newly planned facilities are anticipated during the planning period

Consider emerging technologies such as digestion, gasification.



360-15.9(h)

Integrated system selection

selection of an integrated system for managing EACH of the various types of waste to be treated, stored, or disposed.

If the plan relies on the private sector to manage a specific waste stream, the plan must address how this waste stream will be managed if the private sector does not adequately manage this waste stream

Plan must specify how the private sector is to be notified of the responsibility for management of a specific waste stream and, if the PU proposes to provide technical, administrative and financial assistance to the private sector in meeting this responsibility, how it will provide that assistance;

TIP: Should be coordinated with other sections / chapters especially recycling recovery programs.



360-15.9(i)

Export certification

certification of disposal capacity when exporting waste out of the PU.

If exportation for less than 5 years is proposed, the PU must certify capacity for disposal or treatment for that entire time period.

When exportation for 5 or more years is proposed, the PU must certify a minimum 5 years of capacity for disposal or treatment

TIP: If the PU exports waste to another PU or State, get letters from 2-3 waste destination facilities, plus permits from out-of-State destinations.



360-15.9(j)

Implementation Schedule

a timetable to implement the integrated system,

(1) close existing inadequate SWMFs or bring them into conformance with requirements

(2) identify major events and milestones to achieve implementation

TIP: This section is REALLY IMPORTANT

Recycling program schedule is best integrated with this section/chapter

360-15.9(k)

Interim SWM measures

identification of measures to manage each of the various types of SW to be treated, stored, or disposed of within the PU, until the integrated system is completely implemented

TIP: Likely not applicable to most PUs with mature SW/Recycling programs



360-15.9(I)

Administrative Structure

identification of the administrative structure that will be responsible for implementing EACH element of the integrated system and for operating the various portions of the integrated system

TIPS: include considerations of hauler licensing and enforcement in this section.

This is a critical section for multi-municipal PUs with or without Authority status



360-15.9(m)

New Laws and regulations

(1) identification of any:

new local laws, ordinances, regulations,

**amendments to existing local laws,
ordinances, or regulations**

TIPS: Revisit Flow Control, Districting, Hauler licensing

Consider plastic bag and e-waste local legislation

Should be combined with other sections/chapters



360-15.9(n)

Cost Analysis & Financing

(1) analysis of the costs of the system, including
capital investments
insurance
operation
maintenance
administration
financing

(2) financing mechanisms that will meet the anticipated costs

TIPS: Consider PAYT/Quantity-based user fees

Should be combined with other sections/chapters



360-15.9(o)

Neighbor impacts

measures used to secure participation of neighboring jurisdictions

any limitations which the plan's implementation would impose on the neighboring jurisdictions' SWM programs

effects of including the jurisdiction in the plan, including additional viable alternatives

TIP: Plan should include results of phone or mail contacts with the neighboring jurisdictions.



360-15.9(p)

Public comment summary

an accounting, to the maximum extent practicable, for the comments and views expressed by concerned governmental, environmental, commercial, and industrial interests, the public, and neighboring jurisdictions.

TIPS: Use your website to further publicize the Plan and solicit public comments

This can be an Appendix to the final iteration of the Plan



Sample LSWMP Table of Contents

Chapter 1 - Planning Unit description

Chapter 2 - SW quantity and types (including recyclables)

Chapter 3 - Existing program description

3.1 SWM facility inventory

3.2 existing efforts to recover recyclables

3.3 markets for recovered recyclables

Chapter 4 - Future PU projections and SW changes

Chapter 5 - Technology Evaluation

5.1 storage, treatment, disposal of solid waste

5.2 alternative recovery programs

5.3 cost analysis

5.4 neighboring jurisdiction impacts

Chapter 6 - Integrated system selection

Chapter 7 - Implementation Schedule (with with integrated recovery goals)

Chapter 8 - New Laws and regulations / Legal/institutional analysis

Chapter 9 - Interim SWM measures (if necessary)

Chapter 10 - Export certification of capacity (if necessary)

Chapter 11 - Administrative Structure and Financial Mechanisms

Chapter 12 - Future actions to further the SWM hierarchy

Appendix A - Public comment summary

Other Chapters or Appendices as needed (surveys, background data, etc)



For More Information

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A goal without a plan is just a wish.

--Antoine de Saint-Exupery, French writer (1900 - 1944)



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