

# Advisory Committee Kickoff Meeting

Integrated Solid Waste Management Plan  
City and County of Honolulu

November 7, 2017



Introductions, Agenda Overview

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## Introductions

- Welcome (City and County of Honolulu)
- CH2M Introduction
- Advisory Committee Member Introductions
  - Name
  - Current Role
  - Connection to Solid Waste

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## Agenda

### 9:00 – 9:15: Introductions, Agenda Overview

### 9:15 – 9:45: Confirm Plan Purpose and Role of Advisory Committee

- ISWMP Background and History
- Purpose statement
- Role of the Advisory Committee; Job Description
- Sunshine Law

### 9:45 – 10:00: Advisory Committee Schedule

- Present draft schedule and discuss any potential conflicts

### 10:00 – 11:00: Identify Known Issues by Plan Topic

- Existing System (1), Special Wastes (5)
- Source Reduction (3), Recycling and Bioconversion (4), Household Hazardous Waste and Electronic Waste (6),
- Public Education (7), Materials Marketing and Procurement (9), Facility Siting Strategy (11)
- Solid Waste Generation (2), Convenience Centers, Transfer Stations (TSS), H-Power, Landfills, and Alternative Technologies (8), Energy Balance (10)
- System Cost Analysis (12)
- Implementation Plan (13), Enterprise Zones (14), and Draft Plan

### 11:00 – 11:30: Identify Key Stakeholders

### 11:30 – 11:40: Public Comments

### 11:40 – 12:00: Next Steps

### 12:00: Adjourn – Thank You For Your Participation

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## Confirm Plan Purpose and Role of Advisory Committee

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## ISWMP Background

- **What it is:** a comprehensive waste prevention, recycling, composting, and disposal program
- **What it includes:**
  - An evaluation of local needs and conditions to determine the most effective combined strategy for managing solid waste while protecting human health and the environment
  - Outlines the components of an effective solid waste management strategy, identifies short and long term goals, and provides a framework for implementation
- **Hawaii Revised Statutes (HRS), Section 342G: Requirements**
  - County submittal of ISWMP revision every ten years
  - Interim status reports every five years
  - Mandates the creation of an advisory committee to provide input during plan development
  - Establishes the structure of the ISWMP, and outlines the state review process

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## History of the City and County of Honolulu ISWMP

- The first City and County of Honolulu ISWMP was completed in 1971, with updates prepared in 1983, 1995, 2004, and 2008
  - PDF copies of all previous plans are available upon request
- The ISWMPs have provided a road map for managing the island's waste by employing strategies that reduce landfilled waste through recycling, waste-to-energy and other technologies, and planning for future needs
- Input from Advisory Committee members during the ISWMP update process is crucial to ensure that the completed plan effectively identifies and addresses Oahu's unique solid waste challenges

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## 2018 ISWMP Purpose Statement

To develop an ISWMP by end-2018 that builds on the basic structure of the City's 2008 ISWMP, addresses current and future needs and opportunities, and meets the requirements of HRS Section 342G

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## Role of the Advisory Committee

Per HRS 342G-22:

“The county advisory committee shall review the plan during its preparation, make suggestions, and propose any changes it believes are appropriate.”

The ISWMP Process:

Advisory Committee members will receive chapters for review one week prior to each workshop via email

Typically, there will be 2-3 chapters covered in each workshop

Be prepared to discuss your comments and suggestions at each workshop, particularly those related to current issues and future options and strategies for each aspect of the plan

Comments will be incorporated into the 2018 Draft Plan, available for review in advance of the final Advisory Committee meeting

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## Advisory Committee Member Job Description

1. Attend ISWMP Advisory Committee meetings; if you cannot attend a meeting, please email or call Steven Serikaku (768-3428) as soon as possible
2. Contribute ideas based on your knowledge and experience
3. Listen to other Advisory Committee members' ideas
4. Engage in discussions around the issues and ideas presented
5. Collaborate around issues that have differing opinions and attempt to resolve differences
6. Recognize that everyone at the table comes as an equal to this process
7. Provide the best advice possible to the City and others engaged in the process
8. Be sensitive about sharing information with persons outside of the committee while Advisory Committee discussions are in progress
9. Make a good effort to review chapters in advance of each workshop to maximize the efficiency of the meetings

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## Hawaii Sunshine Law

- Hawaii's Sunshine Law governs the manner in which all state and county boards must conduct their official business (HRS Chapter 92).
- Requirements include:
  - All meetings must be open to the public and provide opportunity for public testimony
  - Advisory Committee members may not discuss committee business with each other outside of meetings
  - The Advisory Committee may not consider matters not identified in the published agenda during meetings
  - Advisory Committee members are free to discuss committee business with non-committee members, who are not covered by the Sunshine Law
- Additional information can be found at the following link:  
<http://oip.hawaii.gov/laws-rules-opinions/sunshine-law/>
  - Note new provisions become effective July 1, 2018

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## Advisory Committee Schedule

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## Advisory Committee Schedule - Draft

Advisory Committee Workshops (Plan sections in parentheses)	Proposed Date	
1. Kickoff/Chartering	Tue	November 7, 2017
2. Existing System (1), Special Wastes (5)	Tue	January 9, 2018
3. Source Reduction (3), Recycling and Bioconversion (4), Household Hazardous Waste and Electronic Waste (6)	Tue	February 13, 2018
4. Public Education (7), Materials Marketing and Procurement (9), Facility Siting Strategy (11)	Tue	April 3, 2018
5. Solid Waste Generation (2), Convenience Centers, Transfer Stations (TSS), H-Power, Landfills, and Alternative Technologies (8), Energy Balance (10)	Tue	June 12, 2018
6. System Cost Analysis (12)	Tue	July 10, 2018
7. Implementation Plan (13), Enterprise Zones (14), and Draft Plan	Tue	September 18, 2018
8. Public Hearing	Tue	November 13, 2018

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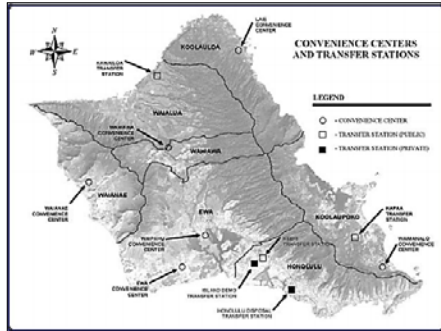
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Identify Key Issues by Plan Topic

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## Existing System (1) and Special Wastes (5)



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## Source Reduction (3), Recycling and Bioconversion (4), Household Hazardous Waste and Electronic Waste (6)



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Public Education (7), Materials Marketing and Procurement (9), Facility Siting Strategy (11)

**Taking Care of Garbage**

**Recycling and Disposal Guide for Oahu**  
Opalvision on the green channel  
Channel 588 and on the web at [www.opala.org](http://www.opala.org)

Redefining trash TV in a new era of television

Watch "Opalvision" on The Green Channel and see the web site [www.opala.org](http://www.opala.org). Here you'll find recycling tips, recycling centers, recycling events, and recycling news. It's the nation's first web channel television network. It's the nation's first web channel television network. It's the nation's first web channel television network. It's the nation's first web channel television network.

**Be Opala Akamai**

Please take the time to learn more about all the stuff we throw away, and how you can help sort it out. They are never so rapidly made and thrown away as some. Recycling ourselves and waste to energy will benefit the environment and help thousands of jobs here in Hawaii.

Each year, Hawaii generates more than 1.5 million tons of waste annually, of which more than 400,000 tons are recycled. That's a great record, but we can do better. We can reduce the amount of waste we generate, we can recycle more, and we can use less energy. More than 100,000 tons of carbon emissions are avoided this way, and another 100,000 tons are conserved in electricity.

We can and should do more. 100% recycling and 100% use of energy to generate power. We can reduce the amount of waste we generate, we can recycle more, and we can use less energy. More than 100,000 tons of carbon emissions are avoided this way, and another 100,000 tons are conserved in electricity.

Department of Environmental Services  
City & County of Honolulu  
1600 Kalia Road, Honolulu, HI 96813

Learn more at [www.opala.org](http://www.opala.org)

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Solid Waste Generation (2), Convenience Centers, Transfer Stations (TSs), H-Power, Landfills, and Alternative Technologies (8), Energy Balance (10)

**TIRES WITH RIMS ONLY**

**TIRES WITHOUT RIMS ONLY**

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## System Cost Analysis (12)

**Table 12.1  
Solid Waste Management Scenarios**

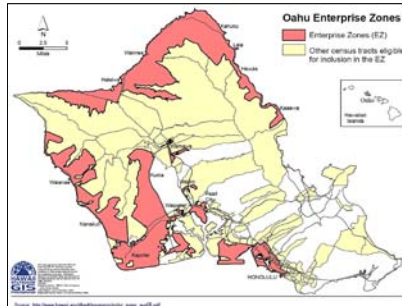
	Base Case	Scenario A	Scenario B
<b>Municipal Solid Waste (MSW) Collection</b>	Twice per week pick-up of MSW	Once per week pick-up of MSW	Once per week pick-up of MSW; optional 2 <sup>nd</sup> day pick-up available for a fee of \$10/month starting in FY 2012.
<b>Green Waste Collection</b>	Assumes current plan to implement automated, twice per month collection island-wide by FY 2009.	Assumes current plan to implement automated, twice per month collection island-wide by FY 2009.	Assumes current plan to implement automated, twice per month collection island-wide by FY 2009.
<b>Mixed Recyclables Collection</b>	None	Twice per month collection implemented island-wide by FY 2011.	Twice per month collection implemented island-wide by FY 2011.
<b>Landfill Operations</b>	Operating permit is extended until November 1, 2009; if EIG is approved, expansion for additional 15 <sup>th</sup> years of capacity begins in FY 2010; search for new landfill begins in FY 2011.	Operating permit is extended until November 1, 2009; if EIG is approved, expansion for additional 15 <sup>th</sup> years of capacity begins in FY 2010; search for new landfill begins in FY 2011. Transhipping to landfill decreases in FY 2010 as transhipping is implemented and further reduced in FY 2013 as additional WTE capacity comes on-line.	Operating permit is extended until November 1, 2009; if EIG is approved, expansion for additional 15 <sup>th</sup> years of capacity begins in FY 2010; search for new landfill begins in FY 2011. Transhipping to landfill decreases in FY 2010 as transhipping is implemented and further reduced in FY 2013 as additional WTE capacity comes on-line.
<b>Transfer Station Operations</b>	Assumes current operations.	Assumes approximately \$4.3 million in capital improvements.	Assumes approximately \$4.3 million in capital improvements.
<b>Community Bins</b>	Increase the number of community bins from 75 to 100 by FY 2009.	Increase the number of community bins from 75 to 100 by FY 2009.	Increase the number of community bins from 75 to 100 by FY 2009.
<b>HPOWER Operations</b>	The City purchases facility for \$44 million in FY 2008. APC needs for \$60 million in FY 2009-FY 2010.	The City purchases facility for \$44 million in FY 2008. APC needs for \$60 million in FY 2009-FY 2010.	The City purchases facility for \$44 million in FY 2008. APC needs for \$60 million in FY 2009-FY 2010.
<b>Additional WTE Capacity</b>	None	Additional capacity of 300,000 tons available in FY 2013 at a capital cost of \$300M.	Additional capacity of 300,000 tons available in FY 2013 at a capital cost of \$300M.
<b>Net Unit Cost (\$/MWh/ton)</b>	FY 2010 - \$34 FY 2015 - \$34	FY 2010 - \$43 FY 2015 - \$36	FY 2010 - \$44 FY 2015 - \$31
<b>Shipping Waste Off Island?</b>	No transhipping assumed.	100,000 tons beginning in FY 2010 at a cost of \$14 M per year. Assume 2 years of transhipping through FY 2012.	100,000 tons beginning in FY 2010 at a cost of \$14 M per year. Assume 2 years of transhipping through FY 2012.



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## Implementation Plan (13), Enterprise Zones (14)



**Table 13.1  
Implementation Schedule**

Component/Task	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Responsible Party
<b>Municipal Solid Waste Collection</b>							
Conduct pilot program of weekly MSW collection, with an additional optional second day pick-up available for a fee		✓					EW
Expand the results of pilot program to determine whether the preferred approach is once a week pick-up or 1 <sup>st</sup> and 2 <sup>nd</sup> day pick-up 100% for a fee		✓					EW
Expand to new MSW collection system used only based on the results of the pilot program			✓	✓	✓	✓	EW
<b>Green Waste Collection</b>							
Continue to provide source reduction and reuse through the City website, web page, and other communication		✓	✓	✓	✓	✓	EW
Continue to encourage Community and the public regarding biweekly workshops with Honolulu Solid Waste, waste recycling and other programs		✓	✓	✓	✓	✓	EW
Continue to distribute the Business Waste Prevention Guide and to provide companies with their respective printed copies		✓	✓	✓	✓	✓	EW
Encourage the emphasis on source reduction and reuse in the City's procurement policies		✓	✓	✓	✓	✓	EW
Join with other counties in the State to advocate for manufacturer responsibility for product waste		✓	✓	✓	✓	✓	EW
Expand the City's source reduction program, encourage residents to sign up and provide (single and double) source reduction		✓	✓	✓	✓	✓	EW
Expand the City's source reduction program, encourage residents to sign up and provide (single and double) source reduction		✓	✓	✓	✓	✓	EW
Expand the City's source reduction program, encourage residents to sign up and provide (single and double) source reduction		✓	✓	✓	✓	✓	EW



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## Identify Key Stakeholders

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## Next Steps

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Thank You

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