



**Stockholms
stad**



City Exchange Program Viña del Mar - Stockholm

Andrea González

Environmental Advisor

Environmental Services Department

Municipality of Viña del Mar

Ignacio Santelices

Director for Chile

Center for Clean Air Policy

- Is known as “The garden city” for its large amount of parks, gardens and green areas. Main activities are Tourism and Universities.
- Is located in the country’s central zone and it has a 122 Km² surface with a 5 Km coast, and a population of 289.552 people, distributed on flat and hill areas, with an important floating population during summer and holidays.
- Is an important city because usually every new initiative and project developed in Viña del Mar is replicated in other cities of the country.





Viña del Mar: Strategic Vision

- Gives high importance to landscapes and natural resources within the city, for its touristic role.
- Involve programs of collaboration agreements between Municipalities, Universities and Private Companies.
- Involve Applied Research Project's Management for the commune's interest with Public – Private funding.
- Include treatment plans for Household Solid Waste.





Current Initiatives for Waste Recovery

1. Recycling Program

- Involve Public, Private, NGO, Welfare and Charity Institutions
- Recycled materials: glass, paper and paperboard, tetrabrik, household batteries, tires, plastic lids, PET Plastics and pruning waste.



2. Clean Point (Punto Limpio)

- Segregated collection center of glasses, papers and paperboards, clothes, cans, PET plastics, rubbles, green waste, metals, tires, household appliances, print tonners, expired medications and cellphones.
- Project Facilities will be used for Environmental and Recycling Education Seminars and Talks for citizens of Viña del Mar.





3. Pruning Waste Treatment Plant to produce heating Briquettes

- Reduction of waste disposed in landfills, reducing emissions to the atmosphere.
- Reduction on Transportation and Final Disposition Costs.
- Support and Promote the use of alternative energy sources to fossil fuels.
- Increase waste value promoting the 3R's (Reduce, Reuse and Recycle).





Sweden – Chile Cooperation

- In March 2013, during the CCAC meeting in Vancouver, Sweden EPA, Chilean Ministry of Environment, City of Stockholm and City of Viña del Mar, agreed to collaborate at national and local level.
- During the following months, an MOU was prepared between the parties.





Sweden – Chile Cooperation

- Viña del Mar will develop a Sustainable Integrated Solid Waste Management (SISWM) plan for the City under the CCAC initiative, with the technical guidance of the Swedish EPA and the City of Stockholm. Indeed, Viña del Mar will use Stockholm's methodology to develop the SISWM plan.
- To begin identifying and adapting appropriate policies, Swedes conducted a one-week site visit to Chile (August 27th – September 2nd) to meet local and national government representatives, private sector, and other stakeholders.
- With support from the CCAC, Chilean officials will subsequently conduct a mission to Stockholm to learn about the various waste policies, systems, infrastructure and technologies.





Sweden – Chile Cooperation

The city exchange is an important component of this new partnership as it allows waste officials in Chile to practically apply the lessons learned through Stockholm's experience to a developing country context.





Sociedad » Local

Viña del mar firma convenio para potenciar reciclaje con capital sueca

Ambos municipios intercambiarán experiencias y desarrollarán iniciativas sustentables para el aprovechamiento de residuos.

Por Comunicado
223 lecturas

03 de Septiembre, 2013 12:09

Comentar

Con el fin contribuir a un cambio cultural y mejorar las tasas de reciclaje de residuos en la comuna, es el objetivo que establece el convenio firmado entre la ciudad de Viña del Mar y Estocolmo, el cual consistirá en un intercambio de información y colaboración, en relación a las buenas prácticas de una gestión sustentable de residuos.



La ceremonia en que se firmó la alianza, enmarcada en el proyecto

Mayor Virginia Reginato: *“the city is working on several programs for recycling and reducing household and commercial waste, however the city needs a guide in order to make progress in a sustainable manner”*

ION IBEROAMÉRICA CENTRAL DE NOTICIAS

Inicio América Europa Sociedad Magazine Educación Economía Sucesos Opinión Última Hora

Chile y Suecia suscriben acuerdo para gestión sustentable de residuos

By ICADiario 3 septiembre, 2013

En este sentido se detalló que uno de los objetivos de este acuerdo es fomentar la gestión eficiente de los residuos y aumentar la tasa de reciclaje por lo que la iniciativa se materializará con una consultoría financiada por la Coalición para el Aire y Clima Limpio (CCAC) implementado a la Municipalidad de Viña del Mar para posteriormente ser difundido hacia otras administraciones del país

El Ministerio del Medio Ambiente de Chile en conjunto con la Municipalidad de Viña del Mar, firmaron un convenio con la Agencia de Protección Ambiental de Suecia y la ciudad de Estocolmo, con el objetivo de establecer un mecanismo que favorezca el intercambio de información y técnica en relación a las buenas prácticas de una gestión sustentable de residuos.

Participaron en la ceremonia el Subsecretario del Ministerio del Medio Ambiente, Ricardo Iribarribel, la alcaldesa de la Ciudad de Viña del Mar, Virginia Reginato, el Seremi del Medio Ambiente, Gonzalo Le Dantec y la comitiva de Arquetipo en residuos municipales de la ciudad de Estocolmo, quienes destacaron que la actividad se enmarca en el proyecto "Ciudades Reduciendo Emisiones a través de Mejoras en el Manejo de Residuos".

En este sentido se detalló que uno de los objetivos de este acuerdo es fomentar la gestión eficiente de los residuos y aumentar la tasa de reciclaje, por lo que la iniciativa se materializará con una consultoría financiada por la Coalición para el Aire y Clima Limpio (CCAC) implementado a la Municipalidad de Viña del Mar, pero posteriormente ser difundido hacia otras administraciones del país.

biobiochile.cl

Inicio NACIONAL INTERNACIONAL ECONOMÍA DEPORTES SOCIEDAD CULTURA MÚSICA TVCINE TECNOLOGÍA HISTORIA BIOMODERNO

NACIONAL

Lunes 2 de septiembre 2013 11:54 - Actualizado: 12:40

Viña del Mar y Agencia de Protección Ambiental de Suecia firman convenio de reciclaje

258 Votos

Destacados

Ex dirigentes y actuales candidatos se suman a demandas estudiantiles en llamado a marcha

Familiares de Augusto Cerroña señalan que con el suicidio Oskarier Meza "eludió la justicia"

Caso Zarcudo: críticos a defensa de imputados por insistir en tesis de bacteria como causa de muerte

Familiares de Carlos Prats indican estar de acuerdo con un eventual cierre de Punta Peuco



Next Step: SISWM Plan for Viña del Mar

- As mentioned before, the next stage is developing the SISWM Plan for Viña del Mar, with the collaboration of the Swedish EPA, City of Stockholm and CCAP.
- The plan will follow Stockholm's methodology: Will be developed by City staff and external consultants will only participate on specific technical issues.
- The plan for Viña del Mar will use the “Municipal Solid Waste Management Plan of Stockholm” as a guideline.
- The plan objectives are:
 - Reduce emissions through waste management improvement
 - Reduce waste disposition in landfills
 - Increase waste recovery
 - Prevent waste generation

- Some reflections that we are doing about the plan:
 - How to finance it?
 - Priorities
 - Targets on the short and long term
 - Statistics for evaluation
 - Policy tools: soft, hard or voluntary
 - Inter-municipal cooperation
 - The importance of enforcement
 - The importance of tidiness
 - Communication is key (education and information for awareness and dialogue with stakeholders to value each others experience)





Next Steps

1. Keep Working on The Municipal Solid Waste Management Plan:

Chapter I: Present Waste Situation

- Data collection about recycled quantities and recycling intuitions requirements to improve Commune recycling.

Chapter II: Evaluation of the Present Waste Situation

- Identification of current MSW Management strengths and weakness, opportunities and threats.

Chapter III: Projects and Priorities Definition

- Identification of the main priorities for the MSW management improvement.
- Definition of projects to improve MSW current situation.

Chapter IV: Political and Technical Visions

- Existing long and short term visions or targets.
- Definition of new long and short term visions or targets.

Chapter V: Methods to reach Long and Short Term Visions or Targets

Chapter VI: Evaluation and follow up of targets

Chapter VII: Further Information

Chapter I: Present Waste Situation (Diagnostic of current MSW situation)

1. Introduction

- 1.1 City Strategic Vision
- 1.2 Objectives
- 1.2 Basic Concepts Definition

2. Municipal Background

- 2.1 Description
- 2.2 Population Analysis
- 2.3 Housing Analysis

3. Solid Waste Legal Framework

- 3.1 International Legislation
- 3.2 National Legislation
- 3.3 Regional Legislation
- 3.4 Local legislation

4. Municipal Solid Waste Description

- 4.1 MSW generation
- 4.2 Statistics of MSW generation
- 4.3 MSW Characterization

5. Description of Operational Waste Service

- 5.1 General Background
- 5.2 Organization of Waste Collection
- 5.3 Previous Collection Stage
- 5.4 Collection and Transport Stage
- 5.5 Human and Material Resources
- 5.6 Description Waste Community Services

6. Domiciliary Waste Service Financing

- 6.1 Calculation of Cleaning Service Rate
- 6.2 Payment Affected and Exempted Housing
- 6.3 Cleaning Rate Charging
- 6.4 System Financing Level



Difficulties to elaborate Chapter 1: Present Waste Situation:

- The data collection about waste generation and waste recycling has been difficult because of the lack of information from Municipal and Private sector.

Some issues that I will like to outline:

- We have a special interest in the treatment of food waste, so we are working on the quantification of all the restaurants of the city to have an idea of the produced amount of food waste that is generated for this sector.
- We are working with a very strong communication with recycling institutions, to identify possible projects and solutions to improve recycling system in order to increase recycling quantities and materials.



2. SISWM Plan Review: work with Municipality of Stockholm to discuss projects, priorities, terms and target definitions.
3. Deadline for SISWM Plan for Viña del Mar elaboration: March 2014.





THANKS FOR YOUR ATTENTION!



**Stockholms
stad**



City Exchange Program Viña del Mar - Stockholm

Andrea González

Environmental Advisor

Environmental Services Department

Municipality of Viña del Mar

Ignacio Santelices

Director for Chile

Center for Clean Air Policy