


Sustainable Energy Action Plan (SEAP) of Viladecans

cRRescendo conferRence
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Almere, 13th October 2011



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"It isn't that they can't see the solution. It's that they can't see the problem"


Gilbert K. Chesterton



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Background


- Viladecans Plenary meeting approved **Aalborg letter adherence** on 13th June 1996
- On 10th October 1997 Viladecans approved the adhesion to **"Towns Network towards Sustainability"**
- Local Agenda 21** was approved on 15th April 1999
- On 17th December 2003, Viladecans presented **cRRescendo** in the frame of Concerto call for proposals.
- Municipal Environmental Action Program** for 2003-2007 was approved on 29th April 2004



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Background


- Viladecans signed the Vilafranca **Declaration for preventing Climate Change** on 12nd May 2005
- On 12th July 2005, **Municipal Assembly for Environment and Sustainability** was constituted
- On 23rd April 2005, Viladecans approved the **Municipal Law for Solar Energy**
- Viladecans signed the adhesion to **Covenant of Mayors** on 23rd October 2008
- On 17th December 2009, the **Sustainable Energy Action Plan (SEAP) of Viladecans** has been approved



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SEAP Contents

- Introduction
- SEAP goals
- Consumptions/ Emissions Inventory
 - Viladecans Municipality
 - Viladecans City council
- Action Plan
- Conclusions



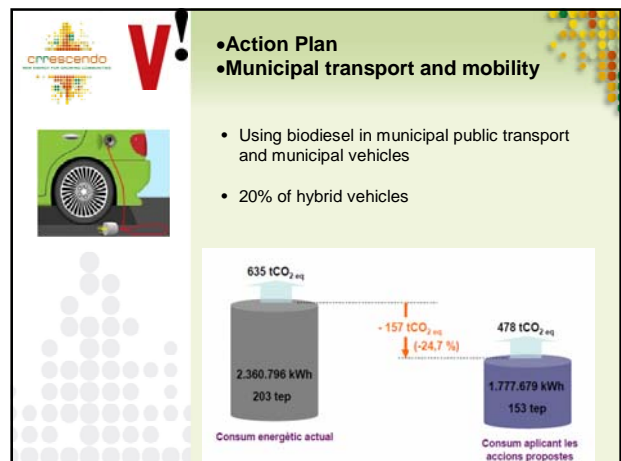
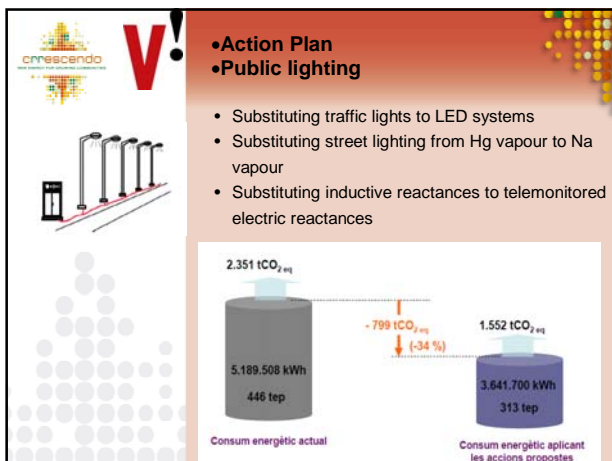
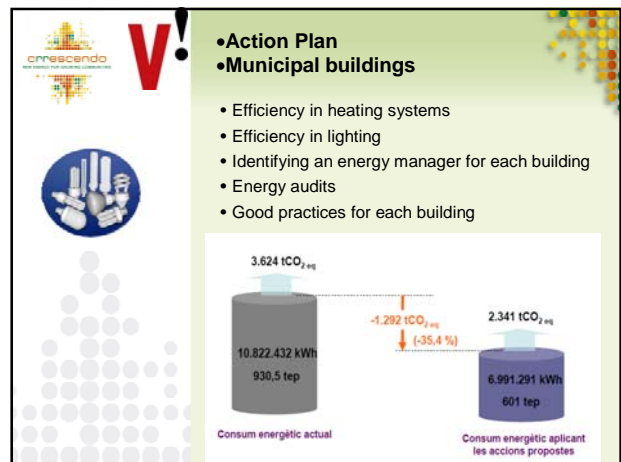
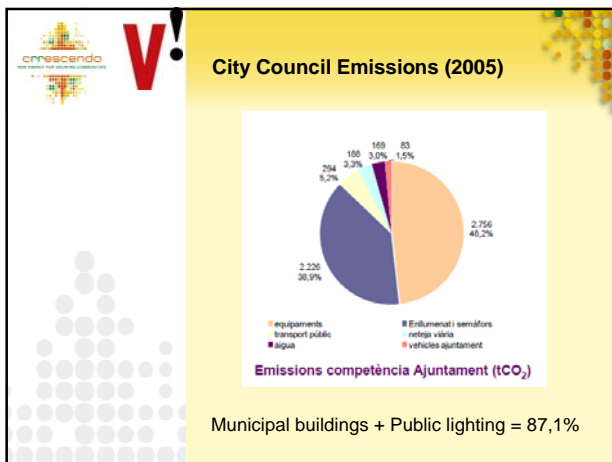
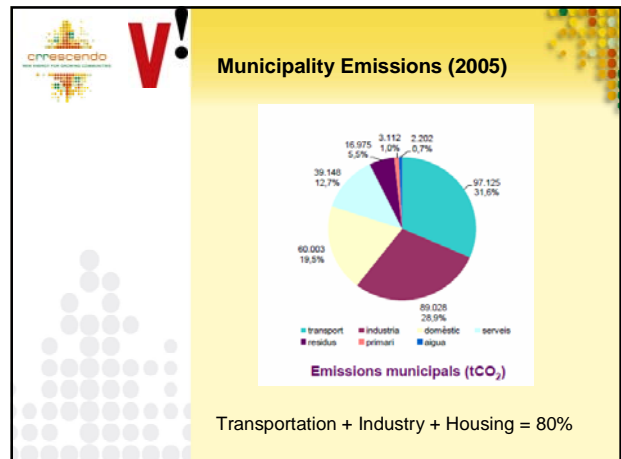
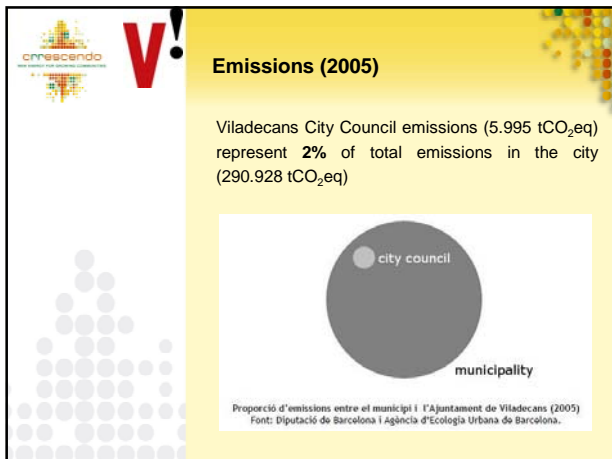
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Goal



SEAP Viladecans, 2009, BCNEcologia


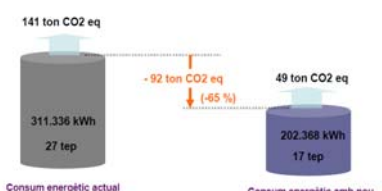
Viladecans City Council will reduce its emissions to 4.796 tCO₂eq per year



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•Action Plan
•Municipal water

- Municipal Water Plan
- Efficiency systems in municipal buildings
- Using greywaters
- Recycled water net

Consum energètic actual: 311.336 kWh, 27 tep, 141 ton CO2 eq



Consum energètic amb nou escenari hidràtic: 202.368 kWh, 17 tep, 49 ton CO2 eq

-92 ton CO2 eq (-45%)

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Action Plan
Municipal energy production

- 1 MW of PV panels Plan
- Solar Thermal systems
- Solar Cooling pilot project


Producció 2008: 2.688.922 kWh, 230 tep

Producció ampliant producció fotovoltaica i tèrmica (2020): 5.045.984 kWh, 435 tep

+2.357.062 kWh (+87%)

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•Conclusion
•Saving



- Total emissions in the frame of municipal competences at **2008** are **7.070 tCO₂ eq** (increase 9% 2005 rate)
- Proposed direct actions imply **2.330 tCO₂ eq** in saving meaning **33,0%** of generated emissions at municipal competence level (2008).
- Local energy production can save **984 tCO₂ eq** meaning **13,9%** of saving emissions in addition.
- **Total emissions savings reaches up to 46,9%** (in front 29%) !!!

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•Further Conclusion

Good job !!!

But what to do with the remaining 98% of emissions?

Work, work and work...

... or perhaps SMART work ?

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Thank you !

Concerto is co-funded by the European Commission. Crescendo is a project of the Concerto Initiative co-funded by the European Commission under the Sixth Framework Programme.