

Healthy Air by Ecological interior Construction

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“ÖkoKauf Wien”

1 of 3 pillars of the Vienna Climate Protection Programme

Adopted by the Vienna City Council in November 1999

Public procurement volume: 5 billion euros

Environmentally friendly procurement

*Programme Sponsor
Executive City Councillor
for the Environment*

Chief Executive Director

Director General of Urban Planning, Development and Construction

Budget
Unit

PROJECT MANAGEMENT

International Activities
Unit

Consultative
Committee on Law

STEERING GROUP

Consultative Committee
on Public Relations

Climate Protection · Environmental Protection · Urban Planning,
Development and Construction · Waste Disposal · Finance · Children's Day Care Centres · Hospitals and Care Residences · Public Procurement
Vehicle Fleet · Foundation Engineering · Building Management · Vienna Ombuds-Office for Environmental Protection · Residential Management

- WG 01 Lighting
- WG 02 Disinfection
- WG 03 Printing, Paper and Office Supplies
- WG 04 Electrical Office Equipment and Household Appliances
- WG 05 Vehicle Fleet
- WG 06 Technical Services
- WG 07 Building Construction
- WG 08 Interior Decoration
- WG 09 Food and Drink

- WG 10 Cleaning Agents
- WG 11 Public Works
- WG 12 Water Services
- WG 13 Winter Services
- WG 14 Prevention

- WG 15 Urban Planning
- WG 16 Events
- WG 17 Paints and Varnishes
- WG 18 Fire Extinguishing Equipment
- WG 19 Furniture

- WG 20 Textiles
- WG 21 Disposal Services
- WG 22 Construction Site Environmental Logistics
- WG 23 Nanotechnology
- WG 24 Kindergartens
- WG 25 Green and Open Spaces



Partner Programmes:

Vienna Climate Protection Programme ("KliP Wien")
Environmental Management Programme
in the Vienna City Administration ("PUMA")
EcoBusinessPlan Vienna

Motivation: good indoor airquality

Air is our most important substance for living: 12-24 kg/d

Europeans spend nearly a 90 % of time indoors

- Health and Safety at Work (workers)
- Healthy air for the residents
- Environment protection (as a side-effekt)

Avoiding emissions of hazardous substances from (indoor) construction materials.

CMR-substances

heavy metals

formaldehyde

biocides

plasticiser (phtalates)

VOC

SVOC

TVOC
[$\mu\text{g}/\text{m}^3$]

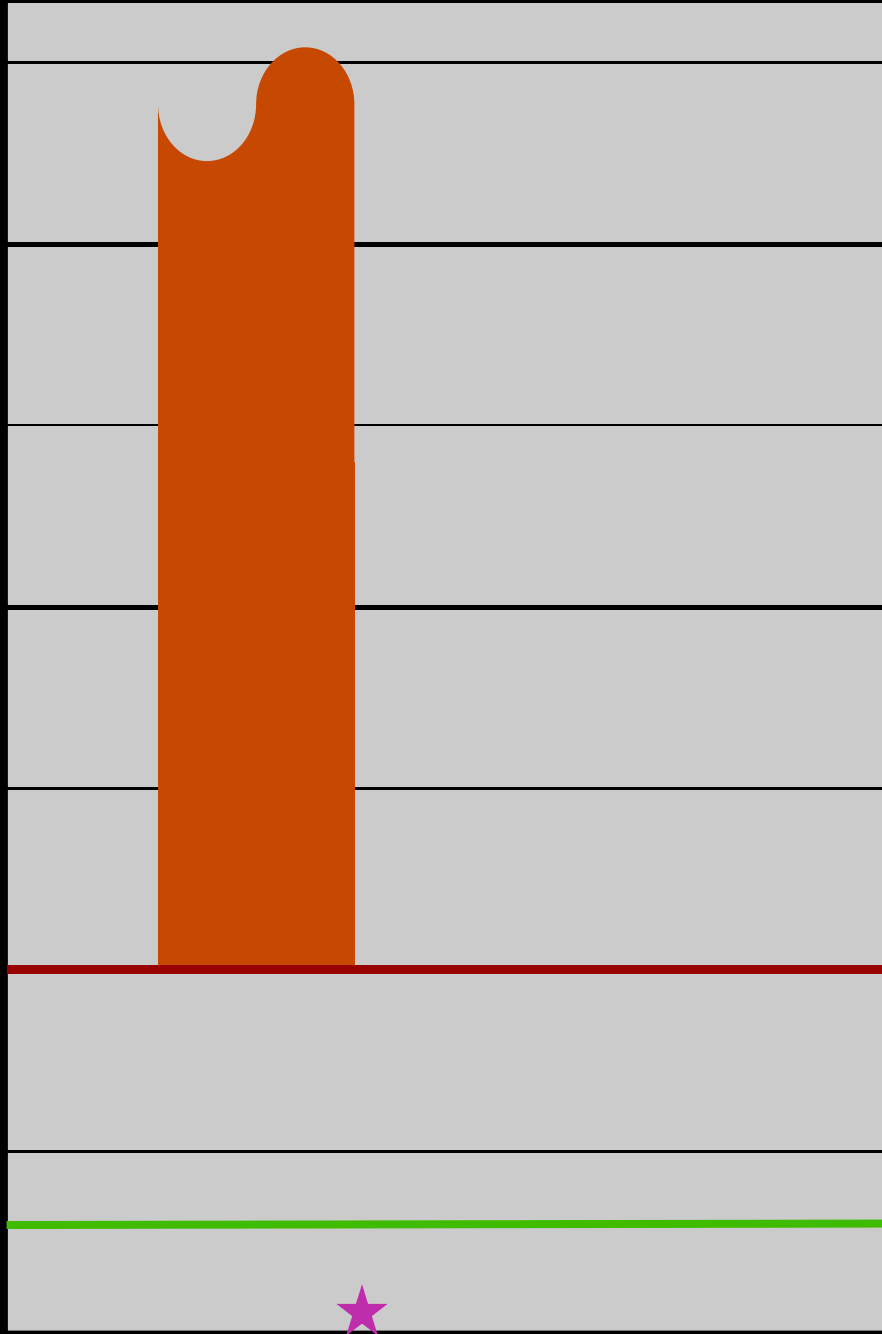
3000

2000

1000

300

0



TVOC:
(Total Volatile Organic
Compounds)

 in new buildings
common

Guidance values for
TVOCs in indoor air

 critical limit

 target value

 measure

Set (and harmonise?) ecological criteria! stakeholders/interests

producers; ecologists; labels; national action plan for green public procurement; building owner; purchaser; procurement law; operating company; workers; users; testing institutes; engineering consultants; other green public procurement systems;

Compliance test of the catalog of criteria with procurement law

Consultative Committee on law

Make the implementation of the Ecostandard mandatory

All results of “ÖkoKauf Wien” **must** be implemented in the tender

tender – with regard to the ecological criteria

standard positions for constructions only refer to technical but not ecological parameters

purchasers had to create new ecologic positions; hard work

now: system that can be used by any purchasing-software

Compliance test of the offered products with the agreed ecological criteria

control of the products at the construction site

major challenge

help: database of construction products which
comply with the „ÖkoKauf Wien“ ecocriteria:

[baubook](#)

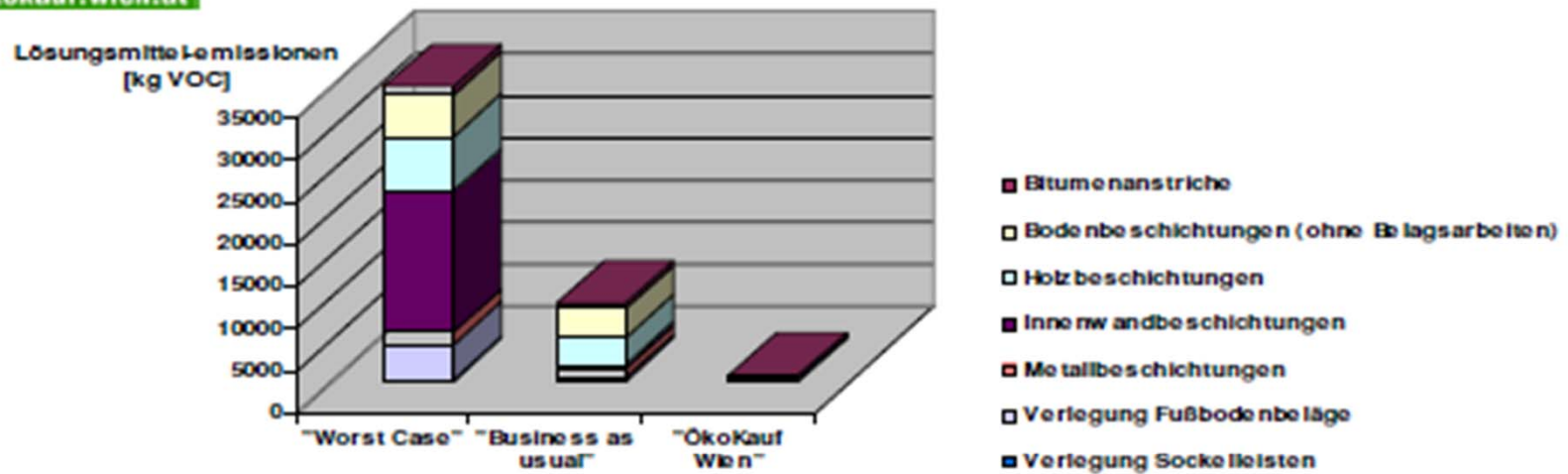
Measuring of airquality (VOC)

Give the operators notice of imminent checks

assess and illustrate the ecological benefit:

Eco-calculator

Lösungsmittleinsparung durch "ÖkoKauf Wien"



VOC-Emissionen im Vergleich [kg]:

	"Worst Case"	"Business as usual"	"ÖkoKauf Wien"
Summe	34597	9376	672,1

Harmonisation of ecological criteria

The City of Vienna and the province of Vorarlberg have harmonised the ecological criteria for their call for tenders at interior and building construction

other organisations followed

you are free to use the same criteria!

All these tools are freely available on line!

Wünsche; Anregungen; Was kommt

(zweikomponentige) Epoxidbeschichtungen

Isocyanate

Emissionsprüfungen für Produkte mit Innenraumluftkontakt

Biozide in Fassadenprodukten, Bitumenabdeckungen

Flammschutzmittel vor allem in EPS und XPS