

Redevco  
green project

# REDEVCO GOES GREEN!

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REDEVCO

*business in balance*

- International real estate company (18 Countries, 15 Offices)
- € 7,5 bln real estate portfolio
- > 5 mln sq m, > 750 properties and
- Strong focus on retail, high street shopping malls, investment, development and management

- People, Planet, Profit

Real estate has social, environmental effect to society



# REDEVCO goes green-WHY?

Future of real estate market-value of property



The World Goes Green



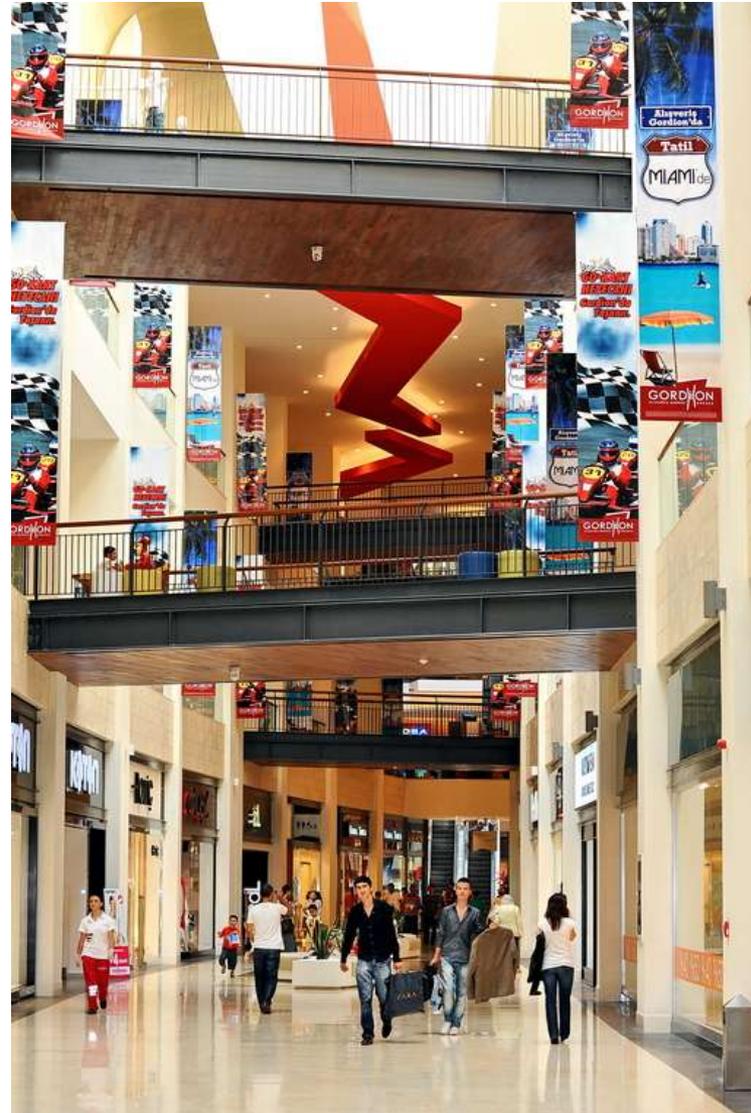
# GORDION SHOPPING CENTER - ANKARA

## BREEAM Certificate – August 2009



# GORDION SHOPPING CENTER - ANKARA

Opening – September 2009



# ERZURUM SHOPPING CENTER

First BREEAM-Certified Building in Turkey – April 2009



# ERZURUM SHOPPING CENTER

Opening – October 2009



# MANISA SHOPPING CENTER



# EDİRNE SHOPPING CENTER



# breeam



**B**uilding  
**R**esearch  
**E**stablishment  
**E**nvironmental  
**A**ssessment  
**M**ethod



# What's the impact of the build environment?

Buildings account for:

Management



Energy Use



Transport



Land Use & Ecology



Pollution



Materials & Waste



Health & Well-being



Water



# GORDION SHOPPING CENTER ERZURUM SHOPPING CENTER



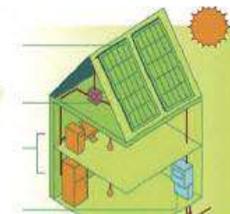
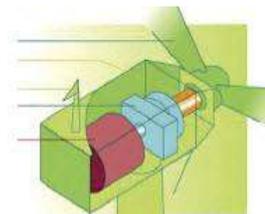
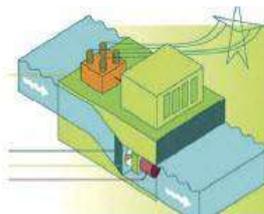
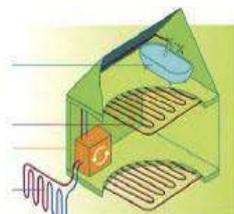
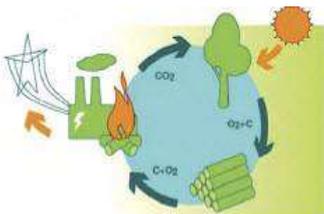
## Tri-Generation

Produce electricity via converting natural gas and as well as use heat out in air conditioning.

Natural gas unit cost; 0,05 TL/kwh

Electricity unit cost; 0,2-0,3 TL/ kwh

35% to 45% SAVING



# GORDION SHOPPING CENTER-ANKARA

## Co-generation Units



# ERZURUM SHOPPING CENTER - ERZURUM

## Co-generation Units



## TRI-GENERATION

- Decrease in necessity for emergency generator= Saving of investment and operation cost of generator
- Energy safety
- %20-25 energy efficiency
- 2000 ton, CO<sub>2</sub>/year
- NO<sub>x</sub> emission 40 mg/kwh

## ILLUMINATION

- High frequency electric ballasted energy efficient fluorescent lighting
- Lighting control with sensors in storages, WC and technical areas

## LIFTS

- 60% energy efficient, machine roomless lifts.

## ESCALATORS

- With motion sensors; runs in different speeds during peak and non-peak hours in order to save energy

## AUTOMATION

- Measuring high energy consuming systems with separate meters and monitoring via BMS (cooling, A/C, fans etc...)
- Measuring tenants energy consuming individually

- Choice of low capacity reservoirs in toilets
- Sensored fixers
- Infrared urinals
- Hot water in low temperature, pressure and flow
- Control and alarm in leakages
- Automatic control of inlet water with solenoid valves in toilets.
- Storages of rain water, used for irrigation system.

# Balance in nature



REDEVCO

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