

# CLEAN VEHICLE PROJECT TURKEY



# AIM OF THE PROJECT

- **Our aim is to to cut our carbon dioxide emissions by eco friendly vehicles and with correct driving techniques. Long-term goal is to be the first zero-emissions road and air transport company.**
- **TNT Turkey started clean vehicle project on November 2006 and created a committe. By the end of Feb in 2008 we have achieved the global aim set for 2011 which is to cut emissions by 6%.**



# ACCOMPLISHMENTS

- Monthly emission per vehicle is reduced to 0.63 tonnes from 0.73 as a result of this project despite the fact that number of vehicles increased to 313 in 2008 compared to 262 in 2006. **Total number of vehicles increased 19%, CO2 emission decreased 6% and total fuel cost saving is Euro 100K.**
- During this project 122 vehicles, 76 commercial and 46 others are replaced. The ratio of replacement is 41% to total number of vehicles today.
- Within the scope of this project, 80 drivers are theoretically trained on eco and safe driving.

- **First action of this project was to replace high consumption PUD vehicles with low consumption PUD vehicles and high consumption sales vehicles with low consumption diesel vehicles.**
- **With these replacements 122 vehicles (2 of them are the first hybrid cars of Turkey) made 3,364,062kms; the results are as follows;**
  - a **Total fuel saving 61,800 LT, financial saving is 100,000 Euro.**
  - b **Total CO2 saving 145 tonnes**
  - c **CO2 saving per vehicle is 1.19 tonnes.**

**From the beginning of the project 01/11/2006 to 01/03/2008, whole fleet fuel and CO2 emission savings are;**

- Number of vehicles in 2006 were 262, in 2007, 292 and in 2008 are 313. But CO2 emissions per vehicle are as follows for each year; in 2006 0.73 ton, in 2007 0,69 and in 2008 0,63 ton.**
- From 2006 to 2007 CO2 emissions dropped 6% and from 2007 to 2008 emissions dropped by 9%.**



***First hybrid car in Turkey***

**From 2006 to 2007 fuel consumption per vehicle decreased by 7% and from 2007 to 2008 by 9%.**



# TNT&United Nations Toolkit Program

- A toolkit has been developed by UN for measuring emissions. We have been using this program since the project started. But we have added country specific measurements such as monthly reports, area based criterias and so on.



# Toolkit Program/Annual CO2 per vehicle

subat emisyon raporu.bmp - Windows Picture and Fax Viewer

## Aylık Egsoz Emisyon Raporu

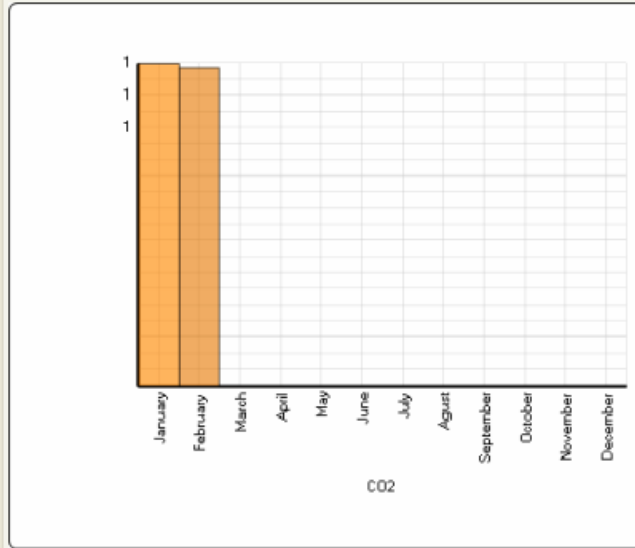
Yil **2008**

Egzos Emisyon Raporunu Oluştur

## Egzos Emisyon Listesi

Ay	Arac Sayisi	Yakit Miktarı (LT)	Yakit / Arac Sayisi (LT)	CO2 (Ton)	CO2 / Arac Sayisi (Ton)
January	325	87,656.18	269.71	205	0.63
February	301	79,858.87	265.31	187	0.62
	<b>313.00</b>	<b>83,757.53</b>	<b>267.51</b>	<b>196.00</b>	<b>0.63</b>

## Aylık Araç Başı CO2 Grafiği



## Yıllık Araç Başı CO2 Grafiği

Yil	Arac Sayisi	Yakit Miktarı (LT)	Yakit / Arac Sayisi (LT)	CO2 (Ton)	CO2 / Arac Sayisi (Ton)
2006	262	81,791.50	312.27	192.08	0.73
2007	292	85,477.41	292.93	200.75	0.69
2008	313	83,757.53	267.51	196.00	0.63



# Comparisons

YEAR	NUMBER OF VEHICLES	MONTHLY FUEL CONSUMPTION (LT)	MONTHLY FUEL CONSUMPTION PER VEHICLE (LT)	MONTHLY TOTAL CO2 (TON)	MONTHLY CO2 PER VEHICLE (TON)
<b>2006</b>	<b>262</b>	<b>81,792</b>	<b>312.27</b>	<b>192.08</b>	<b>0.73</b>
<b>2007</b>	<b>290</b>	<b>85,477</b>	<b>292.93</b>	<b>200.75</b>	<b>0.69</b>
<b>2008</b>	<b>313</b>	<b>83,757</b>	<b>267.51</b>	<b>196.00</b>	<b>0.63</b>

***2006 datas are measurements made before the project started.***

# TARGETS

- **By the end of Feb in 2008 we have achieved the global aim set for 2011 which is to cut emissions by 6%. Our aim, now, is to continue to cut emissions further more.**
- **5% more fuel saving is expected from 51 vehicles planned for replacement within 2008.**
- **In 2008, 60 employees will take eco & safe driving training on top of 80 employees who took the training in 2007. With this training 2% increase in fuel saving is expected.**
- **For new employees, company orientation program will cover eco & safedriving pre information sessions and with company newsletters the topic will be kept updated.**
- **An eco driving award system is created to motivate employees further which is to be launched in 2008.**