



# CLEAN VEHICLE PROJECT TNT TURKEY

Turgut Yıldız 18-19 September 2008



161,500 employees  
Network covers 200 countries  
Turnover 11 billion Euro



- Largest in express in Europe
- 47 aircraft
- 26,760 vehicles
- 228 million consignments



- Best postal operator in the world
- Mail networks in eight European countries
- 4.7 billion addressed mail items in Holland



**At 31 December 2007**

Vehicles	31,149
Aircraft	47
Mail depots/hubs	456
Express depots/hubs	2,331
Mail distribution points in the Netherlands	2,350



Successful partnership evaluation after 5 years of partnership: the partnership continues

Key areas:

- Knowledge transfer
- Hands-on support
- Awareness and fundraising
  
- Building employee engagement
  - Strong internal enthusiasm and pride
  - Volunteers at work in Nicaragua, the Gambia, Tanzania, Malawi and Cambodia
  - Walk the World 2007: 550,000 participants



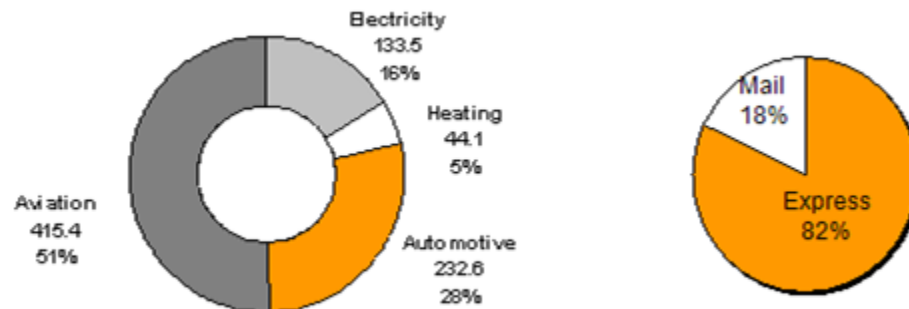


## TNT's carbon footprint measuring CO2 emissions throughout TNT

By the nature of our business as a transport company, TNT contributes to the world's CO2 emissions. TNT flies 47 planes, owns about 32 000 trucks and vans and operates 3,000,000 square meters of facilities.

In 2006, TNT created 825,600 tons of carbon dioxide (CO2) emissions. Aviation is the main contributor, followed by road transport and the company's buildings.

## TNT's 2006 CO2 emissions by source in kilotons (Total: 825.6 kilotons)



*It is our ambition to become the first zero emission transport company.*

- We will measure and manage our CO<sub>2</sub> footprint through our **Count Carbon** initiative
- We will continuously increase the CO<sub>2</sub> efficiency of our operations through our **Code Orange** initiatives
- **Choose Orange** will engage our employees to participate at work and at home with their families
  - One of these initiatives is a global contest to reduce fuel consumption: the Drive Me challenge





<b>TNT</b>	<b>Industrial Goods &amp; Services</b>	<b>91</b>
Akzo Nobel	Chemicals	88
Australia & New Zealand Banking Group	Banks	87
Novo Nordisk	Healthcare	83
Philips	Personal & Household Goods	82
Intel Corporation	Technology	82
BT Group	Telecommunications	82
Sodexo	Travel & Leisure	81
Cia Energetica Minas Gerais	Utilities	81
BMW	Automobiles & Parts	81
Norsk Hydro	Basic Resources	80
Unilever	Food & Beverage	77
Statoil	Oil & Gas	77
Holcim	Construction & Materials	77
Allianz	Insurance	77
Pearson	Media	72
Marks & Spencer	Retail	71
Land Securities Group	Financial Services	70

# Country Information

## TURKEY



742 Employees

374 Vehicles

● 23 Depots/Offices

● 9 Agencies



## Time Definite

Sameday  
9:00 Express  
10:00 Express  
12:00 Express  
12:00 Economy Express

## Day Definite

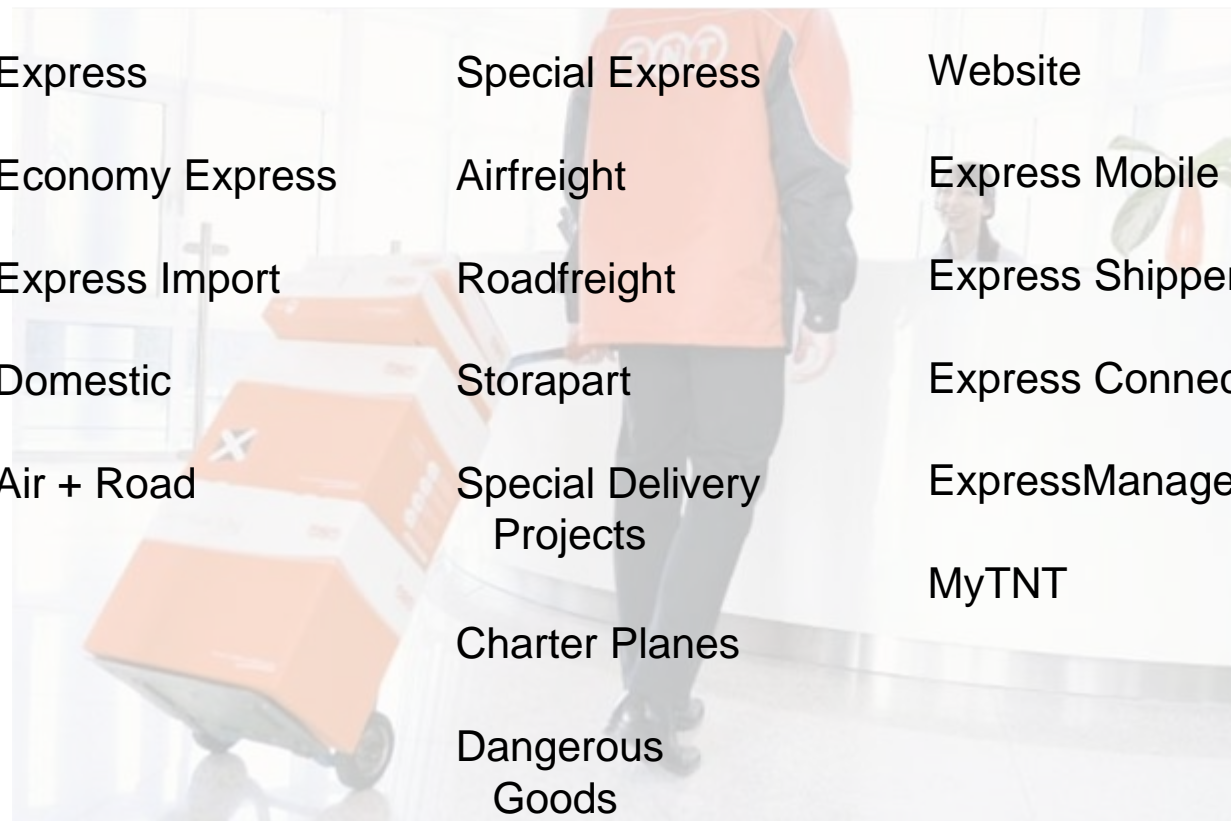
Express  
Economy Express  
Express Import  
Domestic  
Air + Road

## Special Services

Special Express  
Airfreight  
Roadfreight  
Storapart  
Special Delivery Projects  
Charter Planes  
Dangerous Goods

## Electronic Services

Website  
Express Mobile  
Express Shipper  
Express Connect  
ExpressManager  
MyTNT





CLEAN  
VEHICLE



- Our aim is 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 committee. By the end of Feb in 2008 we have achieved the global aim set for 2011 which is to cut emissions by 6%.





- CGM
- Country Operation Director
- Country HR Director
- HR Trainer
- Fleet Manager
- Marketing Manager
- Operations Cost Analyst
- Health and Safety Manager



- First action of this project was to replace high consumption Ford PUD (Pick up and Delivery) vehicles with low consumption VW PUD vehicles and high consumption Ford vehicles with low consumption Toyota 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.



<b>VEHICLE CAPACITY</b>			
	<b>2006</b>	<b>2007</b>	<b>Increase in Capacity</b>
<b>Vehicle m3</b>	<b>392</b>	<b>576</b>	<b>184</b>
<b>Vehicle Capacity ( KG )</b>	<b>70,245</b>	<b>90,745</b>	<b>20,500</b>

- Vehicle Capacity increased 46%

- 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



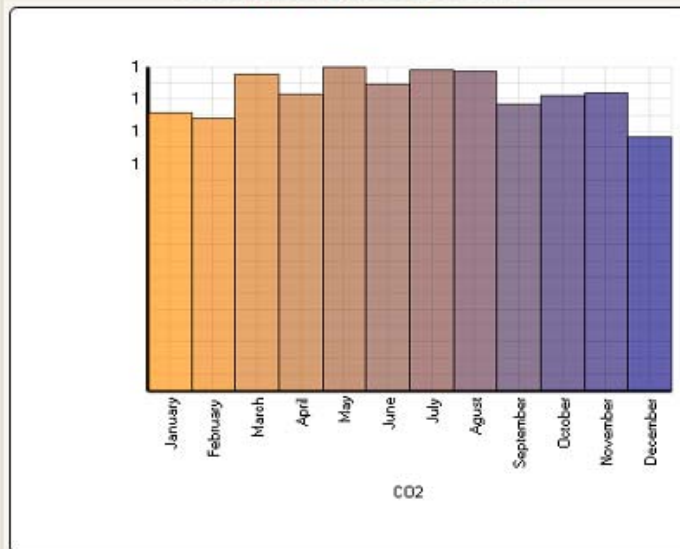
## Monthly Exhaust Emission Report

Year: **2007**

### Exhaust Emission List

Month	# Of Vehicle	Fuel Consumption (LT)	Fuel per Vehicle (LT)	CO2 (Ton)	CO2 per Vehicle (Ton)
January	298	81,835.00	274.61	192.00	0.64
February	301	80,968.00	269.00	190.00	0.63
March	285	89,123.00	312.71	209.00	0.73
April	286	83,494.12	291.94	196.00	0.69
May	286	91,228.00	318.98	214.00	0.75
June	286	86,243.84	301.55	203.00	0.71
July	286	90,155.00	315.23	212.00	0.74
August	287	90,084.35	313.88	212.00	0.74
September	287	81,084.72	282.52	190.00	0.66
October	287	83,440.41	290.73	196.00	0.68
November	297	87,193.26	293.58	205.00	0.69
December	323	80,879.26	250.40	190.00	0.59
<b>Total</b>	<b>292.42</b>	<b>85,477.41</b>	<b>292.93</b>	<b>200.75</b>	<b>0.69</b>

### Monthly CO2 Graphic for per Vehicle



### Yearly CO2 Graphic

Year	# Of Vehicle	Fuel Consumption (LT)	Fuel per Vehicle (LT)	CO2 (Ton)	CO2 per Vehicle (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



- Vehicles
- Invoices
- Penalties
- Accidents
- Daily Vehicle Tracking
- Vehicle Analysis
- Personal
- Reminder



- 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 courier and 46 sales vehicles 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.



## Air pollution indicators

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>	262	81,792	312.27	192.08	0.73
<b>2007</b>	290	85,477	292.93	200.75	0.69
<b>2008</b>	313	83,757	267.51	196.00	0.63

***2006 data measurements made before the project started.***





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%.

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

***First hybrid car in Turkey  
(Country)***







- 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 be launched in 2008.

