

# Green Flash

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Top story

Upcoming IPC Sustainability events

This year's Sustainability Workshop will take place across 18, 19 and 20 June in Brussels, Belgium. The workshop will consist of three core modules. On Tuesday 18 June, the IPC Environmental Measurement and Monitoring System (EMMS) will be covered, along with the provisional 2012 results and a discussion of next steps for the programme. The sector-wide carbon emissions reduction target will be discussed on Wednesday 19 June. Lastly, on Thursday 20 June, the focus topic will be standardisation for green mail. Several posts from Africa, North America and Europe have already registered; this workshop is for EMMS participating posts only.



Other upcoming sustainability events are the Best Practice Seminar on Alternative Fleets on 25-26 September in Brussels and the IPC Drivers Challenge on 30 September and 1 October in Naas, Ireland.



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## Americas

### Postal teams win 10 waste reduction awards

United States Postal Service districts, distribution centres and a post office have collected a total of 10 awards in the Federal Green Challenge competition focusing on waste reduction efforts across the United States.

The Postal Service was the only federal agency to participate in the challenge across its whole organisation. Acknowledging the awards, chief sustainability officer, Thomas G Day, highlighted 850-plus employee-driven green teams that helped the Postal Service save more than US\$52m (€42) in 2012 by reducing energy, water, consumables and petroleum fuel use and solid waste sent to landfill.



In the competition, three districts won “best in class” awards for their landfill diversion rate; two processing and distribution centres won awards for their backhaul programmes; three processing and distribution centres and the Allentown Airport Branch Post Office gained awards for backhaul recycling and the Topeka material distribution centre won an overall achievement and

innovation award for electronic waste recycling and solid waste recycling.

The Postal Service recycled 253,000 tons in 2012, an 18% increase on 2011. Postal employees raised the agency’s overall recycling diversion rate to 48% from 44% in 2011. The award winners collectively increased recycling by 7,678 tons over the previous year.

The Federal Green Challenge competition is a national effort under the Environmental Protection Agency Sustainable Materials Management Programme.

### FedEx increases its energy efficiency targets

After increasing its aircraft fuel efficiency targets to 30% in 2012, FedEx has now also increased to 30% its 2020 targets for fuel efficiency at FedEx Express and for emission reduction from its global fleet.

Previously, the target was for a 20% improvement in global vehicle fuel efficiency at FedEx Express and for a 20% reduction in global aircraft emissions. Both targets have been raised to 30% after FedEx Express achieved a 22% cumulative improvement in fuel economy for its vehicles (compared with 2008).

The company said it was encouraged by technological improvements as well as employee commitment. The biggest impact on overall fuel efficiency at FedEx Express had come from matching the right vehicle to each route. This initiative had accelerated progress towards the original efficiency target yielding both environmental and economic gains.



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FedEx Express expects to save about 20m gallons (75.7m litres) of fuel during 2013. By the end of this fiscal year, it plans to have 360 hybrid-electric vehicles and 200 electric vehicles in its alternative energy fleet. It is purchasing vehicles such as the Mercedes Sprinter van in order to right-size engines to operations. It said each Sprinter van was 70% to 100% more fuel-efficient than the truck it replaced.



Almost two hundred composite body Reach vehicles are operating in the FedEx Express fleet globally and a further 200 are being introduced this year. These lower-weight, smaller engine vehicles are claimed to achieve a 35% reduction in fuel usage compared with most conventional walk-in vans.

FedEx has converted about 35% of its diesel pick-up and delivery fleet to models with cleaner emissions complying with the 2010 US Environmental Protection Agency diesel emission standards.

To reduce aircraft emissions, FedEx plans to source 30% of its jet fuel from alternative sources by 2030. It is working with The Nature Conservancy to develop a roadmap for adapting biofuels to its long-haul segments.

FedEx Ground and FedEx Freight are also engaged in emission reduction. FedEx Ground is testing hybrid hydraulic parcel delivery vehicles on local routes in the United States.

These vehicles use a computer controlled system designed to eliminate unnecessary engine operation.

FedEx Freight is beta testing two new tractor units powered by cleaner burning engines using liquefied natural gas (LNG).

### UPS gears up its LNG fleet operations

UPS plans to save cost and reduce its emissions by purchasing approximately 700 liquefied natural gas (LNG) vehicles and building four refuelling stations.

It believes LNG will provide a bridge during the next 10 years between traditional fossil fuels and emerging, renewable, alternative fuels and technologies. It already operates 112 LNG tractor-trailers from fuelling stations in four states including California where it operates its own station. The four new stations are due for completion by the end of 2014 and represent investment of US\$18m (€14m).

The company has been operating natural gas vehicles for more than 10 years. It states natural gas prices are 30% to 40% lower than imported petroleum and produce 25% less CO<sub>2</sub> emissions.

UPS was a founding fleet partner in the Interstate Clean Transportation Corridor (ICTC) a group that established publicly accessible LNG fuelling stations.



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### FedEx Trade Networks moves to solar-ready site

FedEx Trade Networks is investing US\$5.2m (€4m) in the construction of warehouse and office space at the Riverview Solar Technology Park in Tonawanda, western New York.

The freight forwarding and customs brokerage unit will move to the 25-acre custom built facility in the New York region's first solar-ready business complex and consolidate multiple locations and functions. The solar campus is recognised as a New York State Shovel-Ready site and is known as a low impact green business park that limits the unnecessary removal of trees.



Construction of the new facility is supported by New York State, which has committed US\$2.56m (€2m) in Excelsior tax credits, and Erie County Industrial Development Agency which has granted US\$1.9m (€1.5m) in tax abatements to the project.

The first wave of employees is due to move into the new facility towards the end of this year.

### Postal Service helps promote e-waste recycling

The United States Postal Service supported Earth Day's e-waste recycling theme this year by releasing a consumer video demonstrating how easy it is to recycle mobile phones, MP3 players and tablets through the MaxBack buyback programme.

To use the MaxBack scheme, consumers receive and accept an online quote for their used electronic product which they mail free using a prepaid shipping label. Once MaxBack receives the product it will send payment to the consumer.

The US Environmental Protection Agency estimates that 350,000 phones and 130,000 computers are thrown away every day producing 3 to 4m tons of waste a year.

Specially marked kiosks installed at more than 3,100 post offices provide details about selling electronic items though MaxBack.com and also dispense free mail-back envelopes for recycling used inkjet cartridges. The inkjet cartridge recycling scheme was launched last autumn and since then consumers have recycled 31,000 cartridges.



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## UPS fits winglets to reduce fuel usage and noise

UPS has fitted winglets to its Boeing 767 fleet in order to reduce fuel consumption and emissions. The arrow-shaped wingtip devices save fuel by reducing drag, lower aircraft noise by improving take-off performance, according to the company.

The company said the modification would save more than 6m gallons (22.71m litres) of fuel a year and reduce carbon dioxide emissions by more than 62,000 metric tonnes. It estimates that the reduction represents a 4% fuel saving on each 767 flight.

All 59 of UPS's 767 aircraft are due to have winglets fitted by the end of 2014; winglets are already installed on the company's 747, MD-11 and A300-600 aircraft.

The programme is implemented by UPS Airlines which is working to reduce its carbon intensity by an additional 20% by 2020, based on 2005 levels.



## FedEx spells out its citizenship actions



FedEx Corp published its fifth annual Global Citizenship Report in May outlining its effort in four areas of focus: environment and efficiency; economics and access; community and disaster relief and people and the workplace.

The report notes that FedEx Express achieved its 2020 target to improve its overall vehicle fuel efficiency by 20% ahead of schedule (compared with 2005). Disaster relief efforts included the transportation of approximately 4m pounds (1.8m kg) of disaster aid in the wake of Superstorm Sandy.



## Asia Pacific

### Australia Post steps up support for cartridge recycling

Australia Post has stepped up its effort to encourage printer cartridge recycling by working through its post offices with Planet Ark and campaign ambassador, the champion surfer, Layne Beachley.

The aim is to collect more than 23m cartridges for recycling. The postal company has been supporting the Cartridges 4 Planet Ark programme since 2003 by collecting used cartridges at post offices. To date, the scheme has resulted in the recycling of 9,800 tonnes of plastics, metals, ink and toners.

Australian post offices also serve as drop-off points for old mobile phones under the MobileMuster recycling scheme.



### FedEx adds electric vehicles to Hong Kong fleet

FedEx Express is introducing 10 electric delivery vehicles to its operations in Hong Kong. These are the first zero-emission, all-electric vehicles to be added to the company's operations in Asia-Pacific. They will join the two hybrid vehicles that are already being used in Hong Kong since 2009.



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## Europe



### DPD and GLS offer CO<sub>2</sub> calculation according to EU standard

Parcels operators DPD and GLS have both launched services to calculate individual customers' emissions according to the European standard DIN EN 16258 and France's Decree 2011/1336 which comes into force in October obliging all logistics companies in France to calculate and display their CO<sub>2</sub> emissions.



DPD's calculator was developed jointly by DPD Germany and consultancy BearingPoint. It incorporates customer-specific features such as the size, weight and the transport route of individual parcels.

EN 16258 was developed by the European Committee for Standardisation in Brussels with the participation of several experts from EU member states. The German version was published at the beginning of March making it possible to gain certification for CO<sub>2</sub> calculators that comply.

The standard does not make CO<sub>2</sub> calculation mandatory but it does provide a uniform and comparable method of measuring CO<sub>2</sub> in the transport industry.

GLS received confirmation in March that its methodology for calculating CO<sub>2</sub> emissions for individual parcels complies with DIN EN 16258. It is offering the calculation service to customers on a voluntary basis.

### Swiss Post plans 20 solar roof installations

Swiss Post's new photovoltaic installation on the roof of its Mülligen letter centre is one of the largest in the country and is capable of producing 1,300 megawatt hours of electricity each year, according to the company.

Swiss Post said the system, with a panel surface area of 8,000m<sup>2</sup>, would save 174 tonnes of CO<sub>2</sub> a year compared with electricity from the Swiss sales mix.

The Mülligen installation is the first of a series of installations planned by Swiss Post eventually to generate a combined total of about 6,600 megawatt hours of solar electricity for the national grid each year. Eight more installations are due for completion this year.

Since 2008, Swiss Post has used electricity generated exclusively from renewable sources and since 2012 it has consumed only electricity generated in Switzerland.





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## Exapaq plans to go all-electric for urban delivery

French express parcels operator Exapaq is to equip its urban delivery network with 10 Mooville 8m3 electric vehicles developed by French company Muses following successful operational tests, some in extreme conditions.

The Groupe La Poste subsidiary has signed a first stage agreement with SITL for the delivery of 10 vehicles this year; they will operate under Exapaq's Total Zero programme which aims to reduce and offset CO<sub>2</sub> emissions to provide carbon neutral transportation services at no extra cost to the customer.



Exapaq delivers parcels weighing up to 30kg. It said the Mooville 8m3 was specially adapted to transport and deliver small parcels, being designed around a compact frame onto which a cabin and crates are fitted.

The company is engaged in a long-term project to minimise the environmental impact of its fleet in collaboration with Fraikin, a commercial vehicle fleet services specialist. Fraikin identified Mooville because it incorporated both user- and eco-friendly features.

Mooville has recyclable batteries and electric wheel hub motors. The vehicle's flat base avoids damage to parcels and provides more useable volume because no space is lost to the engine and power transmission.

The vehicle is claimed to achieve a speed of up to 90km/h in peri-urban areas and to offer flexibility upon accelerating and ability to overcome obstacles (full load, start from standstill) in urban areas. It has a range of 90km and Exapaq expects each Mooville to achieve two or three rounds a day by changing the side-mounted battery.

## Deutsche Post DHL makes Bonn a model city for carbon-free delivery vehicles

Deutsche Post DHL is to use electric vehicles for all its deliveries in Bonn and the surrounding region in a pilot project which will see 141 electric vehicles in operation by 2016.

In an initial phase, 79 electric vehicles will go into service by the end of this year delivering parcels and combined mail and parcels.

The project is supported by the German Government's electromobility programme and is hoped to provide a role model for other cities and regions. Once all the vehicles are deployed, the scheme is expected to reduce CO<sub>2</sub> emissions by more than 500 tons a year.



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Deutsche Post DHL will use 20 of its own dedicated StreetScooters in the all-electric fleet in Bonn along with other vehicle models. The StreetScooter has a range of up to 120km—80km on a daily postal round—and is designed for combined mail and parcel delivery.

### EU funding provides an eight-city electric delivery project

UPS, TNT and Seur are the three key transport partners taking part in a European Union-funded demonstration project deploying electric vehicles for urban delivery in eight large cities: Amsterdam, Lisbon, London, Madrid, Milan, Oslo, Rotterdam and Stockholm.

The Validating FReight Electric Vehicles in Urban Europe (FR-EVUE) project brings together 30 partners from local authorities, IT companies and universities as well as transport operators. It is co-funded by the European Commission's 7th Framework Programme and will involve investment totalling €14.2m.

The project aims to show how the eight cities involved can demonstrate significant and achievable decarbonisation in Europe's transport system by using electric vehicles to operate

last mile freight movements in urban centres.

### Deutsche Post DHL's stoves begin to generate offset certificates

Deutsche Post DHL expects to begin using certified CO<sub>2</sub> reductions from its own carbon offset programme for its CO<sub>2</sub> neutral GoGreen service this year.

The company has gained United Nations approval for its independent climate protection project which provides fuel-efficient wood burning cooking stoves to households in Lesotho. The stoves reduce CO<sub>2</sub> emissions by up to 80% compared with traditional cooking methods. They also help reduce deforestation and soil erosion by requiring less wood to be burned.

The project meets the Gold Standard seal of quality judged according to ecological and social criteria. Today, about 5,200 stoves are in use and about 5,000 more households are scheduled to receive one this year.



In addition to using carbon offsets from its own project, Deutsche Post DHL will continue to obtain emission reduction certificates from external projects in order to offset 100% of emissions generated by its GoGreen customers.

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In 2012 more than 2.4bn GOGREEN shipments were despatched involving the offset of about 180,000 tons of CO<sub>2</sub>, 30% more than in 2011 and three times more than in 2009 when there were 704m GOGREEN shipments.

### CTT Correios deploys 150 electric bicycles across Portugal



CTT Correios de Portugal is deploying 150 new electric bicycles for postal delivery across Portugal bringing its total number of environmentally friendly vehicles to 220 (7% of its fleet).

The e-bikes, designed and produced in Portugal, incorporate features specified by Correios and have been developed and tested over two years. These bikes are expected to travel a daily average of 1,400km to save up to 50 tons of CO<sub>2</sub> emissions a year and to increase

mail delivery efficiency, driver comfort and safety. The project represents an investment of €245,000.

To mark the deployment, Correios displayed 100 of the bikes in one of the most visited squares in Lisbon on 28 May, inviting passers-by to try them out.

### P&T doubles its electric vehicle fleet

P&T Luxembourg has purchased 30 electric Renault Kangoo ZE vehicles for postal delivery bringing its all-electric fleet up to 60, the largest electric vehicle fleet in Luxembourg.

The Luxembourg Government aims to reduce CO<sub>2</sub> emissions through its strategy for sustainable mobility into which it has integrated electric transportation.



### TNT trials urban delivery via a mobile depot and tricycles

TNT Express is deploying a mobile depot for parcel deliveries in Brussels as part of a three-month field experiment.

Electric tricycles called cyclocargos will replace traditional vans to ferry parcels from the mobile depot for final mile delivery in three Brussels communes. They are being operated by cycle courier firm Ecopostale and are expected to eliminate 900km of van movements each week in an often congested area.

The custom-designed mobile depot is a vehicle trailer built to

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serve as a storage and sorting centre. It can be extended outwards on one side when stationary and incorporates a lift providing access for the cyclocargos to load and unload.

Each day the mobile depot will drive from the TNT Express hub at the airport's Brucargo to the car park at the Parc du Cinquantenaire. The project was set up in association with Straightsol, a consortium supported financially by the European Commission.

### Austrian Post builds up its electric vehicle fleet

Austrian Post has launched E-Mobility Post, a pilot project supported by the Climate and Energy Fund that aims to combine electric vehicles with power from renewable energy.

At the beginning of the year the company deployed 265 electric vehicles including 167 e-bikes, 80 e-mopeds and 18 e-cars. Its aim is to expand its electric fleet to more than 1,000 vehicles by 2015.

As a key part of its sustainability programme Austrian Post has now deployed seven Kyburz DXP electric tricycles following pilot tests. The tricycles have a 120kg load capacity with potential for an extra 150kg of load space on a trailer. They have a range of up to 100km and a top speed of 45km/h.

The company said it would test optimum operation of its new vehicles and launch trials of other vehicles such as quad bikes.



### Chronopost opens second urban depot in the heart of Paris

Chronopost aims to reduce CO<sub>2</sub> emissions by almost 80% and halve the number of kilometres travelled for urban deliveries in the 15th district of Paris with the opening of an Urban Logistics Area (ULA) in Beaugrenelle.

Beaugrenelle is Chronopost's fourth ULA and the second in Paris. It is surrounded by local businesses, schools and homes just 500 metres from the Eiffel Tower and covers 3,027m<sup>2</sup> on two levels.

The company said the ULA would eventually be served by a fleet of 30 alternative energy collection and delivery vehicles including electric Chrono City vehicles. The first 10 alternative energy vehicles are being deployed this year.



### PostNord reduces CO<sub>2</sub> emissions by 5% in 2012

PostNord has published its 2012 sustainability report showing that it reduced group CO<sub>2</sub> emissions by 5% from 393,516 to 372,981 tons. The group's emissions are now 11% lower than in its base year of 2009. Its goal is to achieve a 40% reduction on 2009 levels by 2020.

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PostNord has allocated funds for environmental initiatives each year since 2009. In 2013, it has earmarked SEK100m for its Climate Fund, an amount equal to the cost of offsetting its carbon emissions in 2012.

Since it was established, the Climate Fund has set up some 80 activities designed to speed up the group's environmental work and focused mostly on energy consumption by transport and buildings.



The group's Swedish subsidiary, Posten, has been voted the country's most sustainable freight transportation brand by 9,000 consumers who participated in the Sustainable Brand Index 2013.

### Itella Group reduces its emissions by 6,000 tonnes

Itella Group has reported that it reduced its CO<sub>2</sub> emissions by 6,000 tonnes in Finland last year and that carbon emissions compared with net sales decreased by 26% between 2007 and 2012. It said the emissions generated by the delivery of one letter had dropped to 19 grams of CO<sub>2</sub>, the equivalent of driving a car 115 metres.

The group has improved the energy efficiency of its vehicles and buildings, introducing bio-gas powered vehicles and increasing its electric mail delivery mopeds to account for half the fleet. This year Itella will install driving habit monitoring devices in vehicles in a move to reduce fuel consumption further.

In 2011, Itella introduced carbon neutral services for all letters, direct mail, publications and parcels delivered in Finland by its postal subsidiary, Posti.



### Deutsche Post DHL improves carbon efficiency by two index points

Deutsche Post DHL's Corporate Responsibility Report for 2012 records an additional two index point improvement in its carbon efficiency bringing the total improvement since 2008 to 16%. The group is now more than half way to its overall target for a 30% CO<sub>2</sub> efficiency improvement by 2020 for both its own operations and transport undertaken by subcontractors.

It said its global fleet of about 80,000 road vehicles now includes 8,500 vehicles with innovative technologies and drive systems. In 2012 it unveiled the electric StreetScooter



DPD AND GLS OFFER CO<sub>2</sub> CALCULATION ACCORDING TO EU STANDARD ■ SWISS POST PLANS 20 SOLAR ROOF INSTALLATIONS ■ EXAPAQ PLANS TO GO ALL ELECTRIC FOR URBAN DELIVERY ■ DEUTSCHE POST DHL MAKES BONN A MODEL CITY FOR CARBON-FREE DELIVERY VEHICLES ■ EU FUNDING PROVIDES AN EIGHT-CITY ELECTRIC DELIVERY PROJECT ■ DEUTSCHE POST DHL STOVE PROJECT BEGINS TO GENERATE OFFSET CERTIFICATES ■ CTT CORREIOS DEPLOYS 150 ELECTRIC BICYCLES ACROSS PORTUGAL ■ P&T DOUBLES ITS ELECTRIC VEHICLE FLEET ■ TNT TRIALS URBAN DELIVERY VIA A MOBILE DEPOT AND TRICYCLES ■ AUSTRIAN POST BUILD UP ITS ELECTRIC VEHICLE FLEET ■ CHRONOPOST OPENS SECOND URBAN DEPOT IN THE HEART OF PARIS ■ POSTNORD REDUCES CO<sub>2</sub> EMISSIONS BY 5% IN 2012 ■ ITELLA GROUP REDUCES ITS EMISSIONS BY 6,000 TONNES ■ DEUTSCHE POST DHL IMPROVES CARBON EFFICIENCY BY TWO INDEX POINTS ■ CTT CORREIOS CELEBRATES BIODIVERSITY ■ ITELLA'S NEW PENNALA CENTRES REACHES COMPLETION ■ TWIN-DECK TRAILERS CARRY SAVE FUEL AND CUT EMISSIONS

developed specifically to its requirements.

Deutsche Post DHL has three core social responsibility programmes: GoGreen for environmental protection, GoHelp for disaster management and GoTeach which has partnerships with Teach For All and SOS Children's Villages.

The GoGreen programme covers reduction in energy, paper and fuel consumption plus investment in innovative technologies. As part of Deutsche Post DHL's sustainability effort, 20,000 employees around the world have attended the company's GoGreen e-learning course.

### CTT Correios celebrates biodiversity

CTT Correios celebrated the UN's International Day of Biodiversity 2013 holding environmentally related activities for its employees and their relatives between 18 and 26 May.

A science lecture given at CTT's Lisbon headquarters was broadcast nationally via video conference and followed by a field visit to identify lichens. Volunteers logged marine and seashore species they observed along Portugal's coastline with the help of a training kit; a family weekend for employees included "pond dipping" with the aid of a kit and information on pond plants and animals.

CTT organised the activities in partnership with Portuguese ENGO Biodiversity 4All. All the records made by employees and their family and friends will be processed and registered in the Biodiversity 4All database which is used by the international scientific community.

### Itella's new Pennala centre reaches completion

Itella has taken full possession of its new logistics centre in Pennala which offers more than 100,000m<sup>2</sup> of storage space for Itella Logistics operations including the existing Pennala service warehouse.

The centre incorporates a hybrid geothermal and natural gas heating system and energy saving wall panels. It uses LED lighting plus shelf lights controlled by motion detectors. Two sections of the centre opened at the beginning of January to operate domestic warehousing for Itella Logistics customer Rautakesko. The sections completed in April and May provide storage for hardware products, household appliances, clothing and dangerous goods.

### Twin-deck trailers save fuel and cut emissions

Swiss Post is transporting parcels on 28 twin-deck semi-trailers that offer 50% more cargo capacity saving 420,000 litres of diesel fuel, which corresponds with a reduction of 1,100 tonnes of CO<sub>2</sub> emissions a year compared to conventional semi-trailers.



# Green Flash



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## About this publication

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