



ExtraEnergy e.V.
Koskauer Str.100
07922 Tanna
Fax: +49 366 46 27 09 5

REGISTRATION TEST 2010

Register till: 26th February 2010



ExtraEnergy PEDELEC & E-BIKE TEST 2010

DELIVERY of VEHICLES: 8TH MARCH 2010

TESTING: 25TH MARCH - 18TH APRIL 2010



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To apply for the ExtraEnergy pedelec & e-bike test, simply fill in this form, sign and send it via fax to +49 366 46 27 09 5 or mail to ExtraEnergy e. V., Koskauer Str.100, 07922 Tanna

YOUR COMPANY ADDRESS

Company

Street / P. O. Box

Postcode

City

Country

Homepage

PERSON to CONTACT

Firstname

Surname

Phone

Email

PRODUCTDETAILS

Productname

Model

Productname

Model

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CHOOSE YOUR SERVICES

Simply check the boxes for the services you would like to apply for

- ExtraEnergy Pedelec und E-Bike Test including ergonomic testing, testrides and testing of the mechanical and electrical safety

*3.800,- EUR per product including all services specified in the participant information. In order to take part in the test, you have to provide ExtraEnergy with 2 test bikes, either identical or with different frame types. The vehicles will stay with the organisation after the test as a permanent loan.

- Repeated publication and reevaluation of the results of an already tested vehicle

*1000,- EUR per product. No new vehicle needed.

Productname

Modell

Productname

Modell

- Test for the GS certificate, a German seal that stands for approved safety

*Velotech will come back to you with an offer.

TERMS AND CONDITIONS

Hereby, I declare with my signature to have read and respect the participant information and the terms and conditions of the ExtraEnergy Pedelec & E-Bike Test (p. 1-11).

Date and Place

Company stamp and legally binding signature
Repeat name in capitals

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TERMS AND CONDITIONS - TEST FEATURES

EXTRAENERGY SERVICES

- Test Pedelec(s) / E-Bike(s)
 - Ergonomics testing with about 100 testriders
 - Monitored test runs on the testtrack, Tanna
 - Mechanical safety testing by velotech.de
 - Electrical safety testing by SLG
- Management of logistics once vehicle has been delivered
- ExtraEnergy Quality Seals for products rated "Very Good" and "Good"
 - Delivery of testseal stickers for the rewarded vehicles (liable to paycosts)
- Publishing of results
 - PR activities concerning the test
 - Your Productreport in English, German, spanish and french
 - Online publicity on ExtraEnergy.org and vehiculosverdes.com
 - Offline publishing in ExtraEnergy Magazine (60.000 pcs.)
 - TV coverage on public service channels ARD, ZDF and Arte
- Link on extraenergy.org to your website
- Entry in ExtraEnergy.org dealer directory- Your dealers can enter their company information for free
- Exhibition of the tested vehicle and the Product Report
 - On travelling exhibitions at fairs
 - In the permanent exhibition of LEV museum at Tanna

YOUR DUTIES

- Provision of 2 test bikes for every product tested until **8th March 2010** to
ExtraEnergy e. V. - Koskauer Str. 100 - 07922 Tanna
- Provision of all documents
 - Usermanual
 - Declaration of CE conformity
 - Certificates for electric components
- Full payment till 8th March 2010 after receiving the bill on which you can find all details

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PARTICIPANT INFORMATION - SPECIFICATION

The Pedelec & E-bike Test measures usage, serviceability and operating safety of the electric vehicles. In order to reach an accurate evaluation, the electric vehicles are tested in conditions which are as close to real life as possible.

The result is composed of your data, the results of ergonomic testing, the testdrivers evaluations, monitored testruns and the testing of the mechanical and electrical safety. The results will be published only after consultation in a variety of media.

ELEMENTS PEDELEC & E-BIKE TEST

TEST 1: ERGONOMICS

In this part of the test, the test driver will attempt to carry out the following tasks without reference to the instruction manual. The test driver shall manage to

- remove the battery (if this option is available with the vehicle)
- find the applicable charger among other chargers from different manufacturers
- reattach the battery
- carry the pedelec or e-bike up and down a five step staircase
- lift and attach pedelec or e-bike to two different luggage racks
- lift pedelec or e-bike onto a platform (this simulates lifting of the vehicle into a car or train)
- set pedelec or e-bike components to the driver's ergonomic preferences
- switch on motor
- adjust drive mode
- take test-ride and monitor the following elements:
 - motor assistance
 - noise levels
 - driveability of the vehicle without motor assistance
- turn off the pedelec or e-bike
- generally evaluate the pedelec or e-bike
- Classify the pedelec or e-bike into a vehicle type (e.g., city bike, tour bike, etc.)

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TEST 2: MONITORED TESTRUN

The test will be carried out with maximum support and with one battery model. All relevant data is gathered on an outdoor track, specifically designed and selected for the test. During the testrides all data is recorded with a specific developed measurement technology. The track is divided into a variety of different sections which attempt to simulate the different aspects of every day bike usage.

Sections:

- Touring section: moderate hills and differing driving surfaces
(country road, gravel path and forest track)
- Flat section: driveability and start-up on even driving surface
- Hill section (1): hills with an average of 5% (3-9%) stretching for 1km
- City section: stop and go with a total of 16 stops
- Hill section (2): start on uphill stretch with average incline of 12% (8-15%)
- No motor section: driveability without motor assistance

For taking in to account the differing driving habits of test drivers, every pedelec or e-bike is tested by a minimum of 5 test drivers. Additionally, in order to evaluate the battery range and the driving behavior without motor assistance, all bikes will be driven several times until their battery capacity runs out.

TEST 3: MECHANICAL SAFETY

The mechanical safety is tested in the laboratory of velotech. The following aspects will be tested:

- General evaluation (overall impression of bike and evaluation of intuitive usage)
- Evaluation of instruction manual
- Preliminary test (main gauges, torque, ease of dismantling, labels and product identification)
- Brake test (wet and dry)
- Statics test (overcharge test, rigidity grades)

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TEST 4: ELECTRICAL SAFETY

The mechanical safety is tested in the laboratory of SLG. The following aspects will be tested:

- Inspection of component documents relevant to safety
- inspection of instruction manual and product identification
- inspection of device documents from electrical components (i.e. circuitry, equipment)
- inspection of CE standard seal
- Safety of battery system (charger - battery - motor) in regular use

TEST 5: GS -TESTING - *optional*

The following aspects would be tested if you apply for the GS testing. The test for the GS seal, if awarded, comes together with a certificate.

At Velotech.de:

- Dynamic test (component testing on chassis dynamometer)
- Head-on collision frame and fork (optional with GS testing)
- Supplementary testings

At SLG:

- testing of battery safety system (charger, battery, motor) in abnormal conditions
- inspection of Sec. 1 of the mechanical policy (Maschinenrichtlinie) 2006/42/EC
- inspection of electrical cables and circuits
- inspection of the degree of moisture protection
- inspection of heat and fire resistance of thermoplastic materials
- inspection of radio transmission
- inspection of interference resistance
- testing of electromagnetic radiation

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EXCLUSION CRITERIA

As the test can only be run on a tight and fixed schedule, ExtraEnergy had to define certain conditions for participation. In case one of the following criteria is not met, the vehicle will be excluded from the test:

- Late delivery of the vehicle to be tested
- Failure on a test-drive
 - * if the failure cannot be corrected within 24hours by the manufacturer
- More than one fallout
 - *making testing impossible for more than a total of 2 days
- Running out of power
 - *Every vehicle must manage the test-track at least once on its own battery power. If your vehicle uses more than one battery, please make sure to deliver enough battery packs. These will be carried by the cyclists.
- Any fraud leads to immediate exclusion from the test.
 - *ExtraEnergy reserves the right to publish any such attempt of manipulation.
- A minimum of 5 test drivers must be able to finish the track on the bike provided

PUBLICATION OF RESULTS

By signing up for the test, the results of your vehicle will be automatically published in special interest magazines and on the internet. We call this your Product Report. The following services are included:

Your productreport in English, German, French and spanish

Pictures of your products and its details

Manufacturer information on model variations, prices and contact details

- Publishing of results on two pages in the ExtraEnergy Magazine
 - High resolution magazine for LEVs, circulation 60.000
 - Specials for tradeshow
- Online Product Report, available for download on extraenergy.org
- Link to your website
- Entry in ExtraEnergy.org dealer directory- Your dealers can enter their company information for free
- Further exposure in other print media, radio and TV stations
- Your product is part of the permanent exhibition in the LEV Center in Tanna, Germany, which holds the opportunity to test the bike for all visitors

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PRICES

All prices are given in euro (EUR). For its efforts, ExtraEnergy charges 3.800€ per model being tested. Every vehicle must be provided twice. These can either be two identical bikes or can come in different frame sizes, but not entirely different models. However, if a bike features varying framedesigns, i.e. leisure and sport, we strongly encourage you to hand in both.

By signing up for the test today, your bike will run through all methods of testing (Ergonomics test, Test runs, electrical and mechanical testing) and after the test you get all services like the publishing of the results and press coverage.

Please do not hesitate to ask us for your special testing needs. Any additional services, such as driving in a specific modus or with another type of battery, are not included in the standard testing. Costs for additional testing depend on the efforts and will be specified in a personalized offer.

AFTER TESTING

All tested vehicles will remain with ExtraEnergy e.V. . As a permanent loan, all tested vehicles must remain with ExtraEnergy to be able to meet any queries of manufacturers or customers regarding the validity of the results. In that case, the test will be repeated with the original vehicle in the presence of a third party. Each test participant must deliver either two identic pedelec / e-bikes or two vehicles with different frames.

CONTACT

For all queries regarding the test, please do not hesitate to contact:

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CONTRACT

Definition: ExtraEnergy e.V. is, for the purposes of this contract, to be known as the ORGANIZER. Similarly, all manufacturers, manufacturers' representatives, importers and dealers in pedelec / e-bikes, e-bikes and e-scooters, who are participating in test and the test exhibition, are to be known as PARTICIPANTS.

1. Application and Confirmation

Your participation will be confirmed upon our receipt of your signed and completed fax. The test and exhibition contract becomes effective for the ORGANIZER as soon as payment (see section 3) is received and is effective only if we have not, within one week, informed you that your participation is not possible for any reason.

2. General Terms of Contract

The list of services enclosed in the invitation papers and the Participant Information, which have been sent to you together with the confirmation, are part of the test and exhibition contract. The ORGANIZER is responsible for the arrangement, conception and documentation of the test and exhibitions. The PARTICIPANT has no authority regarding method of testing or the presentation of results. The test vehicle will stay with the ORGANIZER after the test is finished on condition of a permanent loan. The ORGANIZER is authorized to use the test vehicle for test riding, testing, and exhibitions in compliance with the Organisation's Charter. The ORGANIZER will hand the test results to the PARTICIPANT for proof reading before they are published. The PARTICIPANT can make changes on their address and prices of the products. The PARTICIPANT can also choose, to not have the test results published. After receiving all test results the Participant will have one month of time to make this decision. If the PARTICIPANT has doubts in the correctness of the test results which are understandable to the ORGANIZER, the test or parts of it will be repeated. If after the test repetition the PARTICIPANT still has doubts in the test results the test can be repeated again in presence of the PARTICIPANT or a delegated body. In this case the PARTICIPANT will have to pay for the repetition test. If there is a defect on the test vehicle the PARTICIPANT is obliged to send spare parts immediately. Repair costs need to be paid by the PARTICIPANT.

3. Billing and Payment Conditions

Following receipt of your application by fax, you will receive an invoice for the total cost of your participation, which is due for immediate payment. The invoice also serves as confirmation for your application. The product will not be tested before full payment is received by the ORGANIZER at a date specified by the ORGANIZER.

4. Contract Withdrawal, Indemnification

The ORGANIZER can withdraw from the contract for the following reasons:

- a) In case, there are not enough PARTICIPANTS taking part in the test or the special exhibition.
- b) In case, the fair and congress company withdraws its agreement for the special exhibition.
- c) In case, the PARTICIPANT does not pay the full amount for the services as agreed in the contract the ORGANIZER is allowed to withdraw from the contract immediately. In this case the PARTICIPANT has no demands on return of any payment on account. In both cases, specified under a) and b) the PARTICIPANT will be fully refunded all payments received by the ORGANIZER until that day. Any further claims will not be paid.

The ORGANIZER carries out the test and the special exhibition for idealistic reasons. Therefore any claims concerning indemnification by the PARTICIPANT towards the ORGANIZER for unsatisfying realization during the test or the exhibition or for damages of exhibited articles are impossible.

Claims of indemnification are possible only in case of intentional or wreckless actions by the ORGANIZER.

The PARTICIPANT can withdraw from the contract only if the ORGANIZER agrees, and if an appropriate replacement can be found. If a candidate is appropriate will be decided by the ORGANIZER.



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5. Miscellaneous

Any alterations or abridgements of the contract must, for legal reasons, be submitted in written form. All actions related to the production of the Test Expo will take place at the location of the event. All other activities will be at the main office of the ORGANIZER.

In case, legal proceedings are brought up, the original contract in German shall take precedence over this contract (it is available on request). The German law and the country court of the ORGANIZER shall be and the applied court of the ORGANIZER shall be valid.