



## ROI calculator for TUGE 10

Transport		Please fill in the blue form fields on the
Installation		left. The return on investment is calculated
Foundation		automatically.
Yearly maintenance		
kWh price		Some browsers do not allow form fields. If
Feed-in tariff per kWh		You cant fill in the form, then please
Average wind speed	m/s	download this file and open it using Adobe
		Reader.
Estimated return on investment	years	

### Disclaimer:

Transport: delivery scope is 18 (half-truck) europallets and 3500 kg. Point of origin: Paldiski, Estonia.  
Price estimation can be obtained here: <http://www.dsv.com/road-transport/contact-our-road-experts>

Installation: 1-2 standard working days for two people. Hourly rates of local service contractors may be used for an estimation.

Foundation: as a default solution we offer a 3x3x2 m concrete foundation, which can be used anywhere. Depending on the soil, more cost effective alternatives can be used. Please contact us for alternative solutions.

Maintenance: annual maintenance is 2 working hours for 2 people. Owner can purchase a set of hydraulic cylinders and a pump to perform maintenance himself. In this case, the one time cost of equipment is 2500 EUR and annual cost is about 25 EUR (greasing materials).

kWh price: if the energy is consumed, then it is the price of single kWh with taxes and fees. If the energy is sold to the grid, then it is the price that grid authority is ready to pay.

Feed-in tariff kWh: additional price paid by the local authorities on top of each produced or sold back to the grid kWh. For European countries, an overview is here: <http://www.res-legal.eu/>

Average wind speed: annual average wind speed exactly at the spot and hub height of wind turbine, as measured by the requirements of EN/IEC 61400-12-1.

This document provides a rough estimation of a ROI of a TUGE 10 small wind turbine with nominal power of 10 kW and an 18 m high galvanized mast. The results are non-binding and provided for reference only. Used data includes calculated EAP curve (MCS certification in progress). VAT of 20% applies to non-VAT registered persons, in this case ROI should increase roughly by 15-20%.