



TBI-Report

Project:

Tesla Example



This Report was produced using the TBI-App
developed by EiiF: www.eiif.org

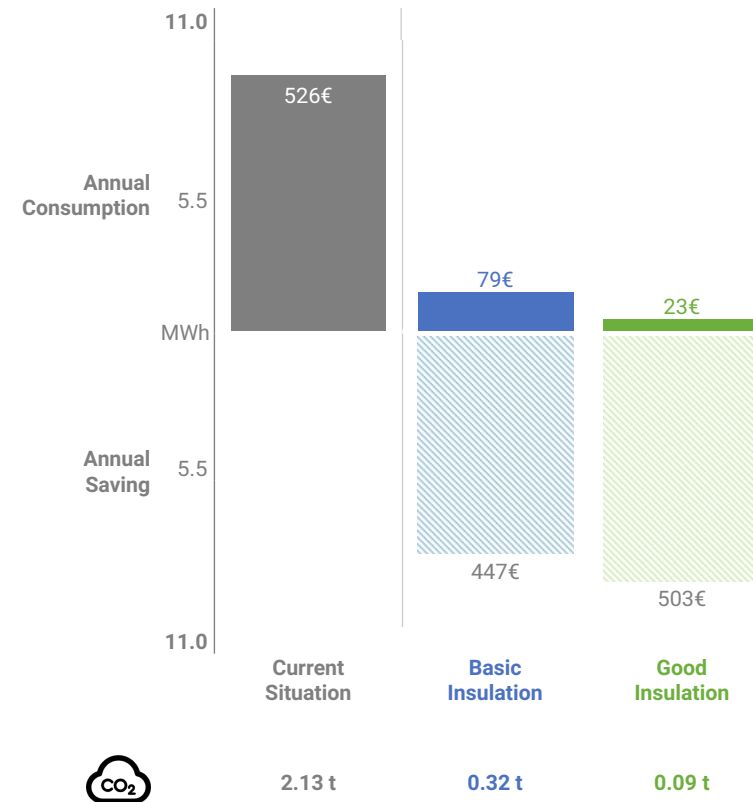
Tesla Example Result at a glance

Annual current losses:

- 10.52 MWh
- 526 €
- 2.13 t CO₂

Annual saving potential:

- 8.94 - 10.07 MWh
- 447 - 503 €
- 1.81 - 2.03 t CO₂

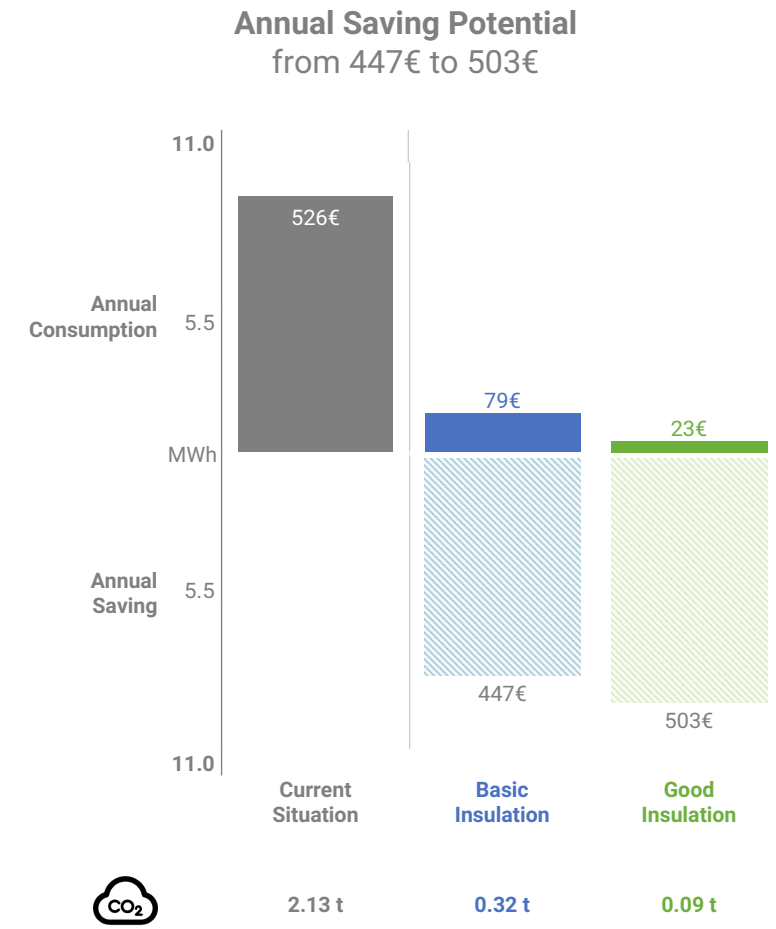


Component Location		Energy & CO2 analysis per year			Safety	Maintenance	Other	TBI Advice	Input				
		Units	Current Losses & Emissions	Potential savings					Insulated	Surface (m ²)	Diameter	Length	Items number
1	Ventil DN150	MWh	10.52	8.94 - 10.07	Hot surface				N		168.3		1
		€	526	447 - 503									
		t CO ₂	2.13	1.81 - 2.03									
ESTIMATION TOTAL PROJECT		MWh	10.52	8.94 - 10.07			Maintenance		Insulation recommended				
		€	526	447 - 503			Surface unknown		Increase performance or thickness				
		t CO ₂	2.13	1.81 - 2.03									

Disclaimer: You should not rely solely on the Software application (TBI-App and/or TBI-Software) for determining the performance of an insulation system and/or the energy or cost saving potential. The Software application only allows you to roughly determine the performance of an insulation system and/or the energy or cost saving potential, due to the influence of a number of factors, including data/input provided by the user. The Software application is not meant to replace professional advice. Under no circumstances will EiiF be held liable for damages occurring to persons and/or properties of any nature and/or any other damages or losses arising out of the use of the Software application or any information or service obtained through it, including direct, indirect, consequential or incidental damages and losses.

1. Ventil DN150: Uninsulated valve

Project Tesla Example	Component/Location Ventil DN150
Energy cost (€/kWh) 0.05	CO ₂ emission factor (grCO ₂ /kWh) 202
Diameter (mm) 168.3	N° of items (m) 1
Operational time 8760	Surface material Painted [0.90]
Surface temperature (°C) 150	Ambient temperature (°C) 8



1. Ventil DN150: Hot Surface

Project

Tesla Example

Component/Location

Ventil DN150

Summary id

Hot Surface

Surface temperature (°C)

150

Comments

Hot Surface



Project Team Contacts

Your TBI contact

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You want to know more about TBI-App and EiiF?

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About TBI

TBI is an easy-to-use insulation self-inspection and reporting tool for anyone who wants to very quickly check and estimate how much energy and money saving potential a technical insulation system has to offer.

TBI offers a conservative estimation of the amount of energy a component is losing. In addition it shows the potential savings if insulated or if an improved insulation system is being installed. The saving estimations are given in a range evaluating the performance of a typical basic and a realistic good insulation system. The estimation methodology is based on:

1. EiiF's vast TIPCHECK experience: In 2010 the European Industrial Insulation Foundation developed its insulation energy appraisal programme called Technical Insulation Performance Check.
2. Simplified heat transfer formulas taken from the ISO 12241 Standard: Thermal insulation for building equipment and industrial installations – calculation rules.
3. Generic values allowing a conservative estimation such as using by default e.g. 0 m/s wind speed and horizontal as the orientation of the system.