



REPORT ON OESTECIM IMPLEMENTATION ACTIVITIES over the course of the project GPP 2020

1. INTRODUCTION

Implementation activities at OesteCim were focused on practical GPP implementation. OesteCim committed to implement 6 tenders including low carbon criteria in order to reduce the CO₂ footprint and the energy consumption associated to the products, services or works purchased.

Each Public Body (PB) developed an implementation plan for the 3 years of the project, scheduling the 6 low carbon tenders. These 6 low carbon tenders implemented by OesteCim were designed to be used as “good practices” and were documented in the format of “low carbon tender models”, to enable replication by other authorities tendering for similar products, services or works.

2. WHO WAS INVOLVED?

In the case of Portugal two organisations were involved:

- LNEG, as “national support partner” - NSP – a research institution of the Ministry of Economy, that works as a consultant for public policy on energy and geology, environment, sustainability, metrology, standardization, quality and certification. LNEG has started its activities in Sustainable Procurement in 2004 and works in close cooperation with private and public organisations.

- OesteCim, as “public body” – PB – the procurement agency of the Association of Municipalities of Oeste Region, which negotiates tenders to fulfill the needs of their 12 associated municipalities.

Tender documents were prepared by OesteCim in close cooperation with LNEG.



3. LOW CARBON TENDERS

In the scope of GPP 2020 project the following low carbon tenders were implemented by OesteCim, with the direct support of LNEG:

- (1) Purchase of energy efficient IT and computing
- (2) Electronic invoice service
- (3) Rental of energy efficient imaging equipment
- (4) Rental and purchase of electric vehicles
- (5) Rental and purchase of photovoltaic charging stations for electric vehicles
- (6) Purchase of thin client systems

3.1. Purchase of energy efficient IT and computing

3.3.1. Contract tendered

- Tender of IT equipment (desktops, keyboards, monitors, UPS) by OesteCIM
- 265 desktops, 265 monitors, 30 keyboards, 100 ups
- 4 Lots tendered – Lot 1: 265 desktops; Lot 2: 265 monitors; Lot 3: 30 keyboards; Lot 4: 100 ups
- Total cost: 226 681,00 € (excluding VAT)



3.1.2. Low carbon criteria/ EU GPP criteria

Technical specifications

Desktops:

- Energy Consumption/efficiency - Equipment shall meet the latest ENERGY STAR criteria, and the typical electricity consumption (TEC) in kWh shall be 5% less than the requirement of ENERGY STAR for the respective category of equipment;
- Substitution/upgrading of components;
- Sound Power Level.



Monitors:

Energy consumption and efficiency - Equipment shall meet the latest ENERGY STAR criteria and the typical electricity consumption (TEC) in kWh shall be 5% less than the requirement of ENERGY STAR for the respective category of equipment.

UPS:

Energy consumption and efficiency - Equipment shall meet the criteria for energy efficiency defined by the EU in the document “Code Of Conduct On Energy Efficiency And Quality Of AC Uninterruptible Power Systems (UPS)” for its respective category.

3.1.3. Results





3.2. Electronic invoice service

3.2.1. Contract tendered

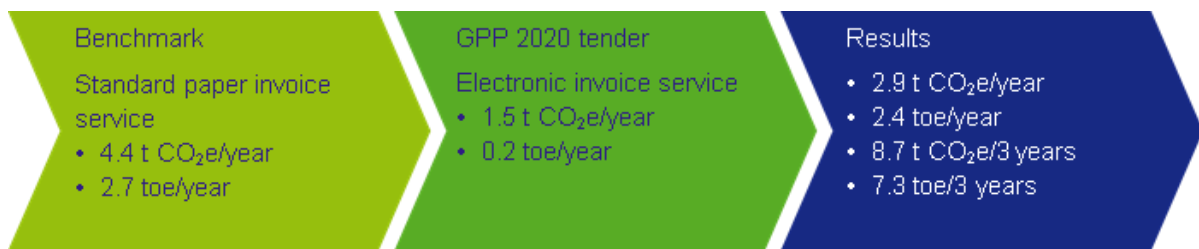
- Contract tender for the purchase of an electronic invoice service by Oeste CIM – Intermunicipal Community of the West, Portugal - to be provided to the 12 associated municipalities.
- 36 month contract for the development and maintenance of the electronic invoice system. The solution does not have an estimated end of life.
- Total cost: 36,000 € (excluding VAT).



3.2.2. Low carbon criteria/ EU GPP criteria

The main objective was to achieve dematerialisation; as such no special environmental criteria were developed.

3.2.3. Results





3.3. Rental of energy efficient imaging equipment

3.3.1. Contract tendered

- Public tender for the rental of imaging equipment to be used in the offices of OesteCIM, including consumables and maintenance of equipment.
- 4 multifunction devices, divided in 3 types capable of printing and copying.
- 36 month rental contract;
- Total cost: 41 000 € (excluding VAT).



3.3.2. Low carbon criteria/ EU GPP criteria

Technical specifications

Type 1:

- Energy star certified; Power consumption: Run mode: ≤ 650 W; Standby: ≤ 65 W; Sleep: ≤ 4,5W

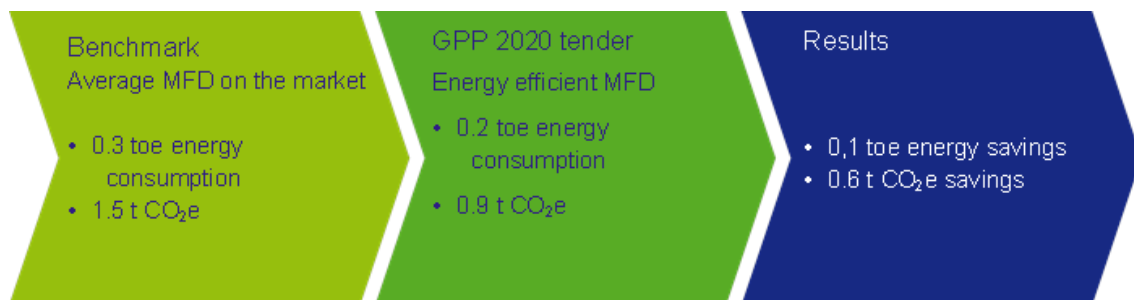
Type 2:

- Energy star certified; Power consumption: Run mode: ≤ 1200 W; Standby: ≤ 120 W; Sleep: ≤ 4,5W.

Type 3:

- Energy star certified; Power consumption: Run mode: ≤ 600 W; Standby: ≤ 50 W; Sleep: ≤ 8 W.

3.3.4. Results





3.4. Rental and purchase of electric vehicles

3.4.1. Contract tendered

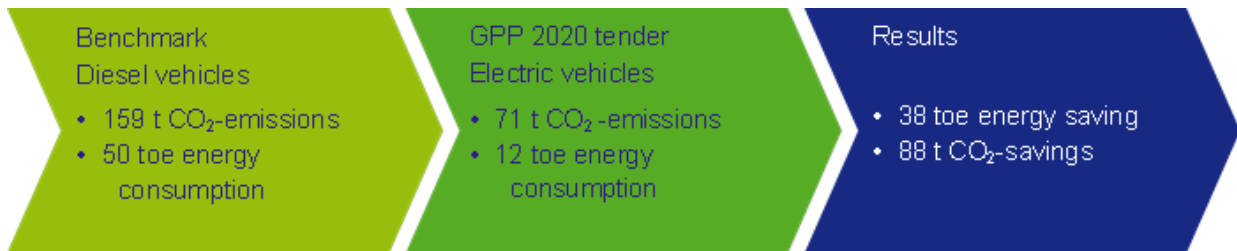
- Tender for long term rental and subsequent purchase of electric vehicles by the municipalities of OesteCIM.
- 12 electric vehicles of L7e class purchased for urban travel in substitution of old diesel vehicles.
- 6 months lease contract, with subsequent purchase by the municipalities.
- Total cost: 74 800 € (excluding VAT).



3.4.2. Low carbon criteria/ EU GPP criteria

- Maximum direct emissions of CO₂: 0 g/km
- Fuel: Electricity.

3.4.3. Results





3.5. Rental and purchase of photovoltaic charging stations for electric vehicles

3.5.1. Contract tendered

- Tender for the long term rental and subsequent purchase of solar-photovoltaic systems to charge electric vehicles with monitoring software.
- 12 solar-photovoltaic charging stations.
- 6 month lease contract, with subsequent purchase by the municipalities.
- Total cost: 65 500 €.



3.5.2. Low carbon criteria/ EU GPP criteria

Technical specifications

- Solar panel of type 230-300 W;
- Inverter of type SMA SB240 or equivalent with appropriate power;
- System that monitors the energy flow produced by the system and the energy consumed at the charging points.

3.5.3. Results





3.6. Purchase of thin client systems

3.6.1. Contract tendered

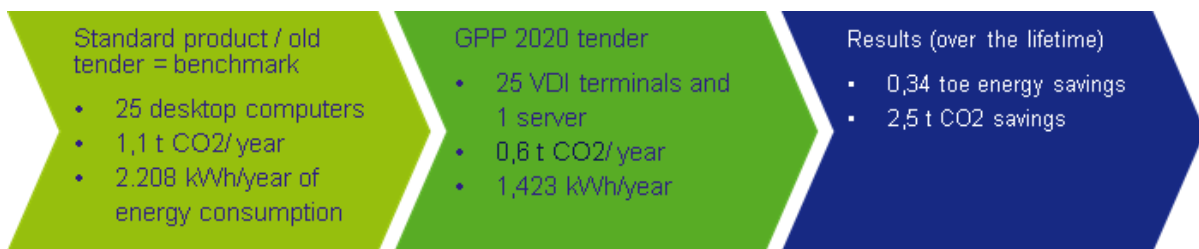
- Tender for the purchase of thin client systems composed by 25 terminals and 1 server to supply Oeste CIM. If this technology proves to be efficient, a new procedure will be published to supply the 12 municipalities associated to OesteCim.
- 25 terminals and 1 server purchased to substitute old desktop PCs.
- One time supply.
- Total Cost: maximum. 25.000 €.



3.6.2. Low carbon criteria/ EU GPP criteria

As thin client systems are already much more efficient than conventional IT equipment, no special environmental criteria were developed.

3.6.3. Results





4. CONCLUSIONS

OesteCim has implemented six low carbon tenders, achieving 17 toe/year in energy savings, corresponding to 104 t/year CO₂ emissions saved.

Despite these could be considered modest results, OesteCim has learned that it is possible to introduce low carbon criteria in tenders, resulting in savings in energy consumption and CO₂ emissions, while maintaining the costs.

As OesteCim is negotiating framework agreements and tenders to be used by the 12 associated municipalities, the lessons learned in GPP 2020 project were disseminated among them, achieving a very important multiplying factor in the region.