



Supply of electricity from renewable sources

Central Procurement Office, Croatia

- 100% of electricity derives from renewable energy sources
- Environment protection improvement at state level
- Proof of market maturity for Croatia



Standard product = benchmark

- Electricity from conventional sources
- 133,682 t CO₂ emissions

GPP 2020 tender

- 100% green electricity
- 7,451 t CO₂ emissions

Results

- Reduction of 126,230 t CO₂ emissions (94%, for 2 years)

Contract tendered

- Approximate quantity of electric energy based on the approximate consumption for two years is 438,300,000 kWh.
- Tender for the electricity supply of all state bodies (ministries, agencies and offices) in more than 3,500 locations all over Croatia with at least 50% electricity from renewable sources.
- 2 years contract
- Total cost: 20.76 Million EUR (excluding VAT)

Procurement approach

Tendering followed the open procedure:

Electricity from renewable sources	
<p>Technical specifications</p> <ul style="list-style-type: none"> - 50% of electricity from renewable sources – mandatory requirement <p>Verification: Statement of the bidder that shall supply minimum 50% of total required electricity from renewable sources</p>	<p>Award criteria / most economically advantageous tender (MEAT):</p> <ul style="list-style-type: none"> • 95% for the price • 5% for a higher amount of electricity from renewable sources (with mandatory requirement of 50% from renewable sources)
<p>Eligibility of bidders</p> <ul style="list-style-type: none"> - The bidder/tenderer must proof that he has the permit from the national energy regulatory agency <p>Verification: The bidder/tenderer shall supply this permit as the proof of legit manipulation with electricity harmonized with Croatian Act on the Regulation of Energy Activities, the Energy Act and other acts regulating particular energy activities.</p>	

Contract clauses

Upon completion of the contract, the selected bidder must provide a statement with supporting documentation to proof that the supplied green electricity is really from renewable sources.

Criteria development

The ambition of the public tender was to increase consumption and production of electricity from renewable sources and to prove that the Croatian market is developed and mature enough to provide renewable energy to such a widespread and large consumer.

Results

Primary motivation was to encourage producers and potential bidders to increase green energy production in order to increase positive impact on ecology and reduce the negative impact on global warming.

The selected bidder offered 100% of electricity from renewable sources. Therefore, the Low Carbon Solution in the following results = 100 % electricity from renewable sources.

Energy savings and CO₂ emission reductions were calculated based on GPP 2020 methodology. The results are as follows.

	CO ₂ e emissions	Energy consumption
Low Carbon Solution – 100% green electricity	3,726 t CO ₂ e/year	18,844 toe/year
„worst case“ – Conventional electricity	66,841 t CO ₂ e/year	18,844 toe/year
Annual savings	63,115 t CO ₂ e/year	0 toe/year
Total savings	126,230 t CO ₂ e	0 toe

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Calculation basis

- The total amount of contracted electricity is 438,300,000 kWh.
- The emission factor for the electricity mix of Croatia was chosen 0.305 g CO₂/kWh.
- Total TOE remains the same as the total usage of energy remains on the same level.

Lessons learned

National Action Plan for Green Public Procurement 2015-2017 with a view till 2020. Accepted on August 26th 2015 predicted at least 50% of electric energy to be procured from renewable sources. This procedure has proven that even high-mounted scale and excellent results can be achieved with positive overall impact on environment and state economy.

This procedure proves that Croatian government has done a huge step toward cleaner, renewable sources consumption and use for a healthy, safe and sustainable future. Energy service providers showed excellent response to required conditions of procurement procedure which has proven to develop into a stable and grown market segment for Croatia.

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About GPP 2020

GPP 2020 aims to mainstream low-carbon procurement across Europe in support of the EU's goals to achieve a 20% reduction in greenhouse gas emissions, a 20% increase in the share of renewable energy and a 20% increase in energy efficiency by 2020.

To this end, GPP 2020 will implement more than 100 low-carbon tenders, which will directly result in substantial CO₂ savings. Moreover, GPP 2020 is running a capacity building programme that includes trainings and exchange. – www.gpp2020.eu

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About PRIMES



Across six countries in Europe; Denmark, Sweden, Latvia, Croatia, France and Italy, PRIMES project seeks to help municipalities overcome barriers in GPP processes, many of which lack capacity and knowledge.

PRIMES aims to develop basic skills and provide hands-on support for public purchasing organisations in order to overcome barriers and implement Green Public Purchasing. This will consequently result in energy savings and CO₂ reductions. – www.primes-eu.net



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