

Old city of Krk, Island of Krk

Primorsko-goranska County, Croatia

Description: Croatia's biggest island; rich historic and cultural heritage; favorable climatic conditions; rich flora; population of the island jumps up from 20.000 to 100.000 and more in high season

Vision: Develop a more energy efficient and zero waste island; independency regarding water supplies; consistently upholding prolonged periods of dry weather and growth of demand of water in high season period; eco lifestyle

Unique specificity: Motivation and education of citizens, sailors, tourist to collect waste in the sea with the "blue bag" project – result clean beaches; clean streets due to new waste system; technical up-to-date water supply with the smallest water loss in Croatia in the supply chain (only 18% of loss)

Challenges: Growing number of tourists in summer; creation of an environmental friendly model of tourism; dealing with the growing CO² footprint; additional waste; increased consumption of energy and water during high season; finding the balance between increasing number of accommodation capacity; don't violate the fragile islands ecosystem

Solutions: Replacement of big waste containers by smaller domestic containers ; water supply project; "blue bag" project – the goal is that every sailor collects at least one bag of waste during the season

Lessons learned: Italy as role model for waste management; studying projects dealing with plastic in the sea; Island of Krk will be a "best practice" role model to others

Efforts: Sustainable waste management on the Island Krk as an answer to growth of number of households and accommodation; system of managing water supply of the whole island from one center; "blue-bag" project – distribution of 8000 blue-bags in 2018

Target group: All inhabitants and tourists

Financing: Own funds; Environmental Protection and Energy Efficiency Fund; EU structural and cohesion funds; sponsors in local community for "blue-bag" project (restaurants, hotels and oil company INA); total cost 8.220.000 € or 2.740.000 € each project

Success: Water supply has reached 99% of the islands population; serves as an example for water management systems in Croatia; small water loss in supply chain (18%); increasing separation of waste from 18,2% in 2006 to 53% in 2018; number of "blue-bags" has increased rapidly from the beginning in 2014; raising awareness for importance of clean coasts

Future perspective / Recommendations: Implementation of digital records of emptying the individual waste containers to optimize the routes; waters supply – new technologies to prevent malfunction of pipelines; raising the dam to keep more water for periods of prolonged dry weather; continuing the "blue-bag" project with a "green-bag" project for the green surfaces of the island



Ecological value of land:
Use stage energy cost for public buildings:
Share of renewable energy on total final thermal energy consumption:
Total GHG Emissions from energy used:

28,5%
 8,34 Euro/m²/year.
 0%
 86,5 kgCO₂/m²/year is average valued for the city of Krk
 69,35 m³/occupant/year
 4 days/year

Consumption of water for residential population:
Ambient (outdoor) air quality with respect to particulates:
Quality of pedestrian and bicycle network:
Community involvement in urban planning activities:

Level 2

State: Croatia
Region: Primorsko-goranska County
City: Krk
Size: 2 km²
Inhabitants: 300 inhabitants
Project by population: Areas in cities 10.001 and 50.000 inhabitants
Sort of project: Existing retrofitted area

