

## Ecometrica and Gaia Carbon Management combine to help Petkim complete their first CDP disclosure with Our Impacts

### Introduction

Petkim Petrochemical Holding A.S. produces basic and intermediate petrochemical raw materials with a total core production capacity of 1,916,000 tons. Petkim is the largest petrochemical complex in Turkey with 14 plants and 17 product lines with 7 auxiliary plants. The company's share in the domestic market is more than 25% and it competes with Chevron and ExxonMobil internationally.

The petrochemicals sector is amongst the most energy-intensive sectors, with up to 70% of the total energy cost coming from production. The sector has become more competitive due to global demands for less carbon-intensive products.

### Challenge

In May 2010, Petkim initiated a long-term project plan for measuring and managing its GHG emissions. The first phase of this plan included responding to the global Carbon Disclosure Project (CDP) survey.

In addition, the company plans to issue its first full sustainability report in 2011, as well as identifying climate change risks and opportunities through GHG accounting, staff training, forecasting and renewable energy projects.



### Solution

In partnership with Gaia Carbon Management, Ecometrica implemented the *Our Impacts* platform to measure, calculate and report Petkim's 2009 GHG emissions for disclosure to the CDP. Ecometrica's expert analysts assisted Petkim with their data gathering, while Gaia worked alongside Petkim to make strong emissions reduction and energy efficiency recommendations based on the *Our Impacts* reports.

### Results

As a result of measuring, reporting and analysing their GHG emissions, Petkim were able to identify areas where energy efficiency savings and renewable energy projects could be implemented. The first of these projects, to be commissioned in 2011, will see Petkim construct a 25 megawatt wind power plant to provide electricity to its manufacturing sites.

Petkim has also developed 43 small-scale energy efficiency projects, of which 23 are in progress.



**Petrokimya Holdings A.Ş.**

[www.petkim.com.tr](http://www.petkim.com.tr)

Country: Turkey

Industry: Petrochemicals

### Key Statistics

- Established in 1965
- Revenue: 1.7 billion USD
- 14 petrochemical plants, largest complex in Turkey
- Disclosing to CDP in 2010 with a view to issuing a sustainability report in 2011

### The Challenge

- Implement a system that measures the tCO<sub>2</sub>e emitted by the company annually
- Assist with reporting to the CDP for the first time in 2010
- Make first moves towards product carbon neutrality

### Strategy

- Deliver the *Our Impacts* carbon accounting service in conjunction with Gaia Carbon Management
- Work with Petkim to recommend projects for overall emission reduction

### Benefits & Results

- Projects underway that will save 90,000 tCO<sub>2</sub>e per year
- Developing a 25 MW wind power plant in 2011
- Initiated a climate change management plan with quantitative targets in 2011