Repsol CO₂ Emission Reduction Strategy



Safety and Environment Unit Strategy & Control General Unit

9th April 2014

DISCLAIMER



ALL RIGHTS ARE RESERVED REPSOL, S.A. 2014

Repsol, S.A. is the exclusive owner of this document. No part of this document may be reproduced (including photocopying), stored, duplicated, copied, distributed or introduced into a retrieval system of any nature or transmitted in any form or by any means without the prior written permission of Repsol, S.A.

This document does not constitute an offer or invitation to purchase or subscribe shares, in accordance with the provisions of the Spanish Securities Market Law (Law 24/1988, of July 28, as amended and restated) and its implementing regulations. In addition, this document does not constitute an offer of purchase, sale or exchange, nor a request for an offer of purchase, sale or exchange of securities in any other jurisdiction.

Some of the resources mentioned in this document do not constitute proved reserves and will be recognized as such when they comply with the formal conditions required by the U.S. Securities and Exchange Commission.

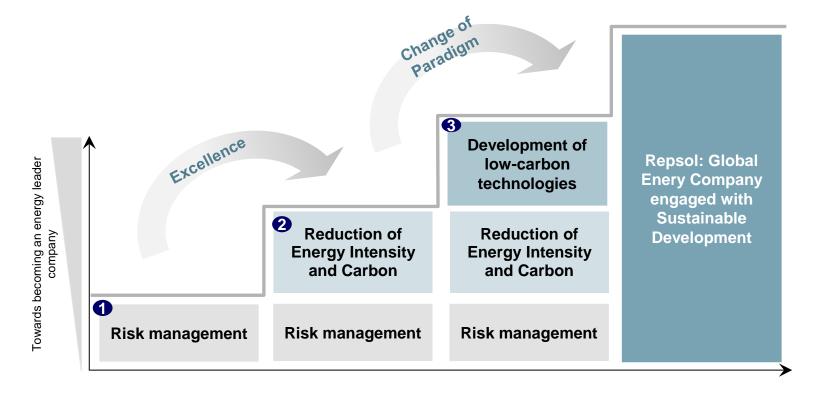
This document contains statements that Repsol believes constitute forward-looking statements which may include statements regarding the intent, belief, or current expectations of Repsol and its management, including statements with respect to trends affecting Repsol's financial condition, financial ratios, results of operations, business, strategy, geographic concentration, production volume and reserves, capital expenditures, costs savings, investments and dividend payout policies. These forward-looking statements may also include assumptions regarding future economic and other conditions, such as future crude oil and other prices, refining and marketing margins and exchange rates and are generally identified by the words "expects", "anticipates", "forecasts", "believes", estimates", "notices" and similar expressions. These statements are not guarantees of future performance, prices, margins, exchange rates or other events and are subject to material risks, uncertainties, changes and other factors which may be beyond Repsol's control or may be difficult to predict. Within those risks are those factors and circumstances described in the filings made by Repsol and its affiliates with the Comisión Nacional del Mercado de Valores in Spain, the Comisión Nacional de Valores in Argentina, the Securities and Exchange Commission in the United States and with any other supervisory authority of those markets where the securities issued by Repsol and/or its affiliates are listed.

Repsol does not undertake to publicly update or revise these forward-looking statements even if experience or future changes make it clear that the projected performance, conditions or events expressed or implied therein will not be realized.

The information contained in the document has not been verified or revised by the Auditors of Repsol.



Repsol action to reduce GHG emissions

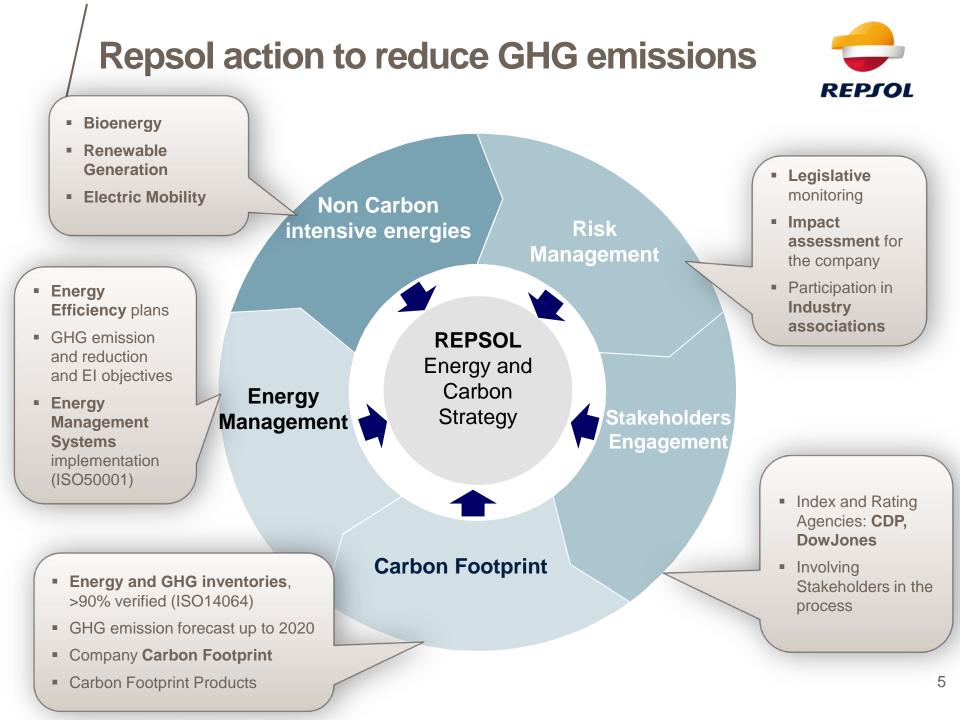


3

Climate Change Strategy Our route

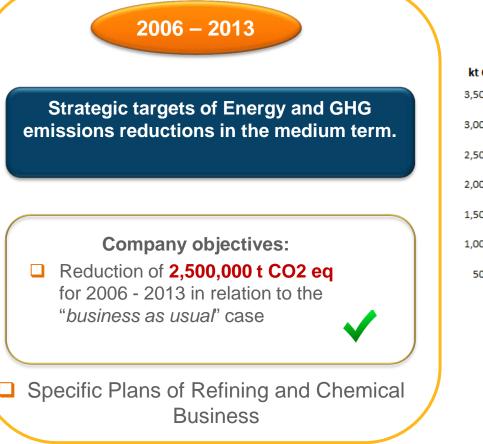


Committment	• First Company of the Oil&Gas sector on showing commitment with the Kioto protocol. Repsol publicly formalized its Position on the Climate Change in 2002 , when there were still some uncertainties on the entry into force of the Kioto Protocole.
Emissions Reduction	•Definition in 2005 of a reduction of 1 million tons of CO2, reviewed to 2.5 million tons during the period 2006-2013, and complying with it a year in advance.
CDM Projects	 Approval by the CDM Executive Board of the United Nations on the Methodology based on flaregas recovery projects (approval of 2 CDM projects with this methodology). Approval of a Fuel Change Project in Peru becoming thus the first project of this type registered at a world level (PoA).
National and international initiatives	 Approval in 2012 and 2013 by the OECC (Climate Change Spanish Agency) of the CLIMATE Project on electrical mobility promoted by Repsol Participation on the Meth Panel at the Climate Change Framework Convention of the United Nations for the definition of CDM Projects methodologies.
Operational Excellence	•Energy Management: La Coruña was the first refinery in the entire world to achieve the ISO 50.001 certificate.
Accuracy and Transparency	 More than 90% of our inventory has been verified under the ISO14.064 standard. First verification of Product Carbon footprint of the product (LPG in bulk Peru, 2013), becoming one of the first companies at world level to verify under the ISO 14.067 standard. Maximum scoring on transparency on the index CDLI of CDP.



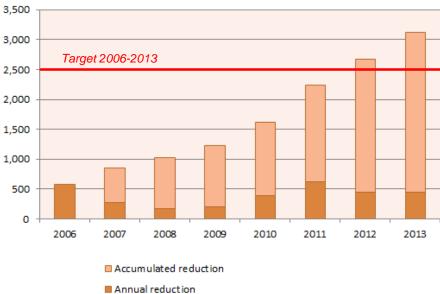
EnEf Improvement 2006-2013



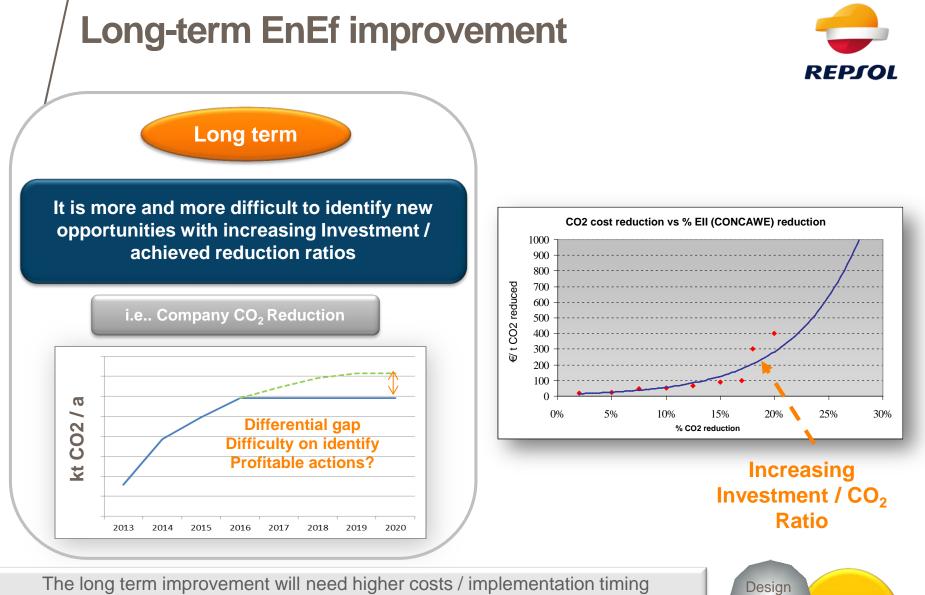


GHG emissions reduction

kt CO2e reduced



- Repsol achieved a total reduction of more than 3.0 Mt CO₂ from 2006-2013, all of them certified according to the ISO 14064 standard.
- Practically 50% of the reduction happened along 2011-2013.



→ 2014-2020 Plan

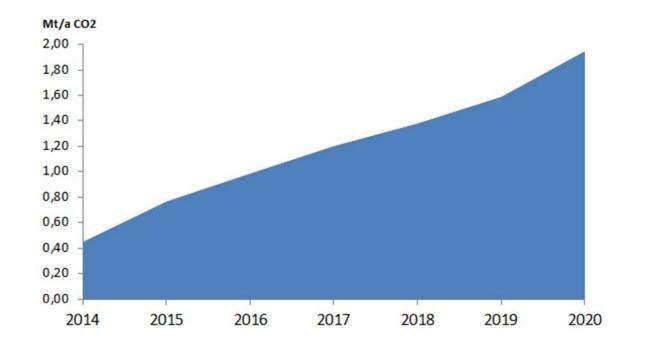
New approaches to look for opportunities + Identification of technology advances + Extension of best practices / EnMS to different Business

Design Improvements Operational Excellence

2014-2020 Objectives Energy and CO₂ emissions Reduction



Reduction of **1,900,000 t CO2 eq** for 2014 - 2020 in relation to the "*business as usual*" case



Very ambitious Long term Plan with a high technological challenge

2014-2020 Objective Features of the Repsol Energy and CO_2 Emissions Plan

- Repsol uses international energy schemes standards to systematically implement energy management systems (EnMS) using ISO 50001 standard as a reference (7 installations are already certified).
- We are conducting **energy studies and** audits to identify opportunities to reduce our consumption and emissions (15 Energy audits in all of our industrial refining and petrochemical centers in Spain).
- We are developing an Energy Review - Production (ER-P) methodology to identify new energy efficiency opportunities in the Upstream area.

About 150 efficiency actions are taken on every year in our facilities and activities as part of the long term plans to reduce energy consumption and CO_2 emissions.

REPSOL

About 140 M€investment in CO2 and energy efficiency measures in 2012-2013.

CO₂ EMISSIONS REDUCTION PLAN

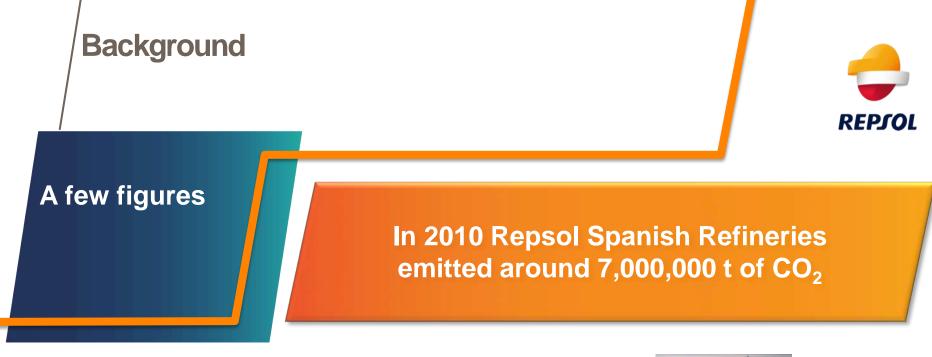


Refining B.A.

© Refining B.A. April 2014.



- I. Background
- II. Four Plan's Drivers: environmental responsibility, legislation, competitiveness and the commitment of all our employees
- III. Objective and Action Plan
- IV. Future challenges



Two weeks of European flights

Less than double the emissions of Iceland

The emissions of 1,000,000 people a year





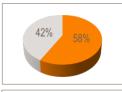




- Global warming / responsibility
- Compliance with legislation / ETS Directive
- Competitiveness / energy costs (60% of costs)
- History of commitment of the organization to efficiency and energy saving









Four Plan's Drivers

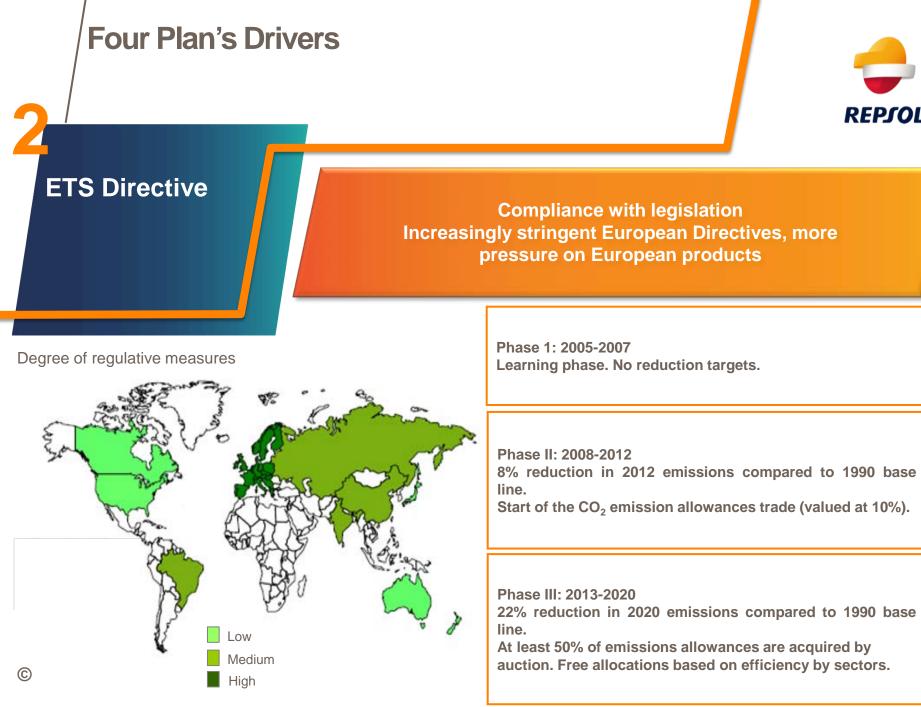


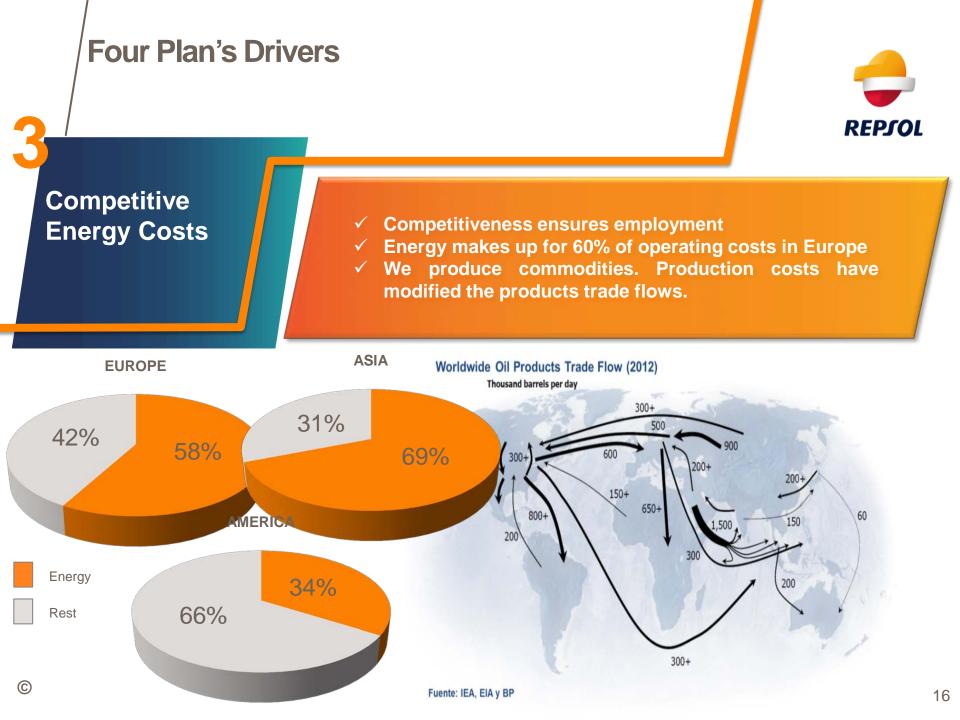
Global Warming and Responsibility

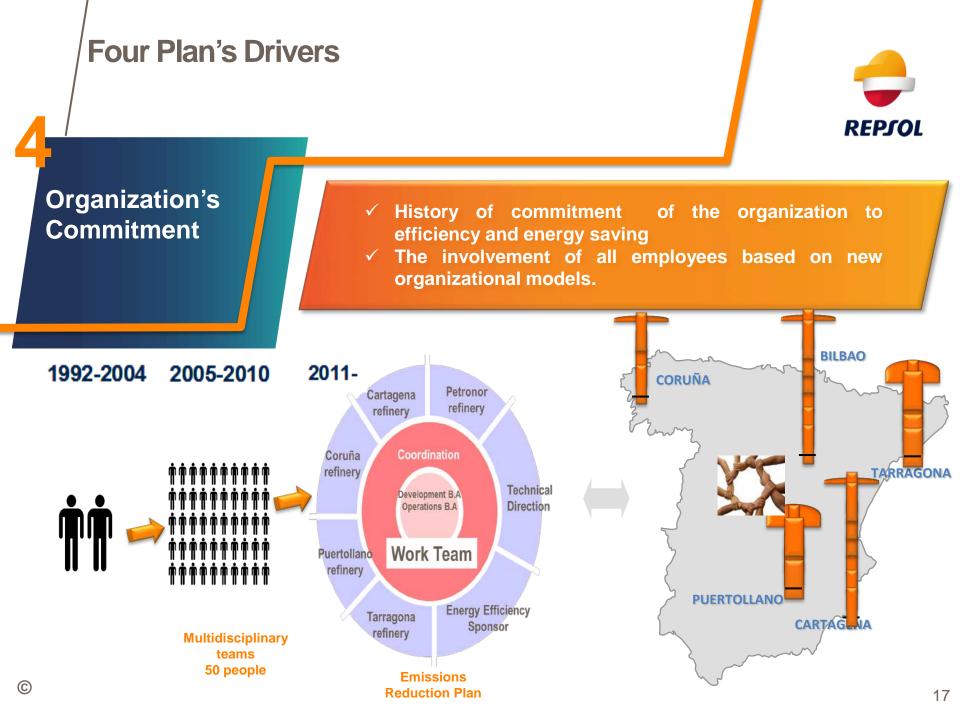
Environmental responsibility improves our quality of life: our refineries stand alongside the population, including our employees' families and their surroundings.

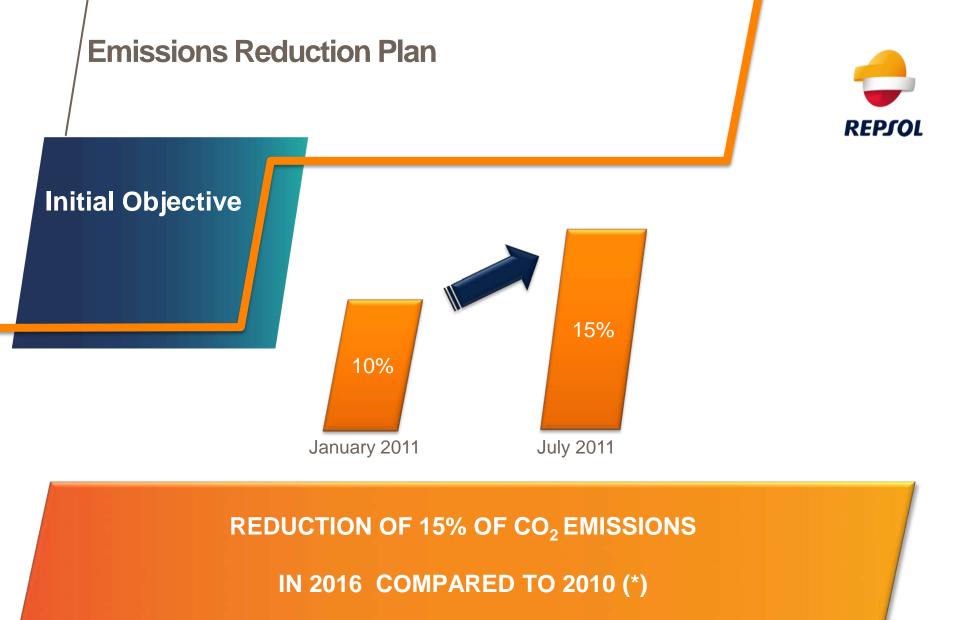
Coruña Refinery

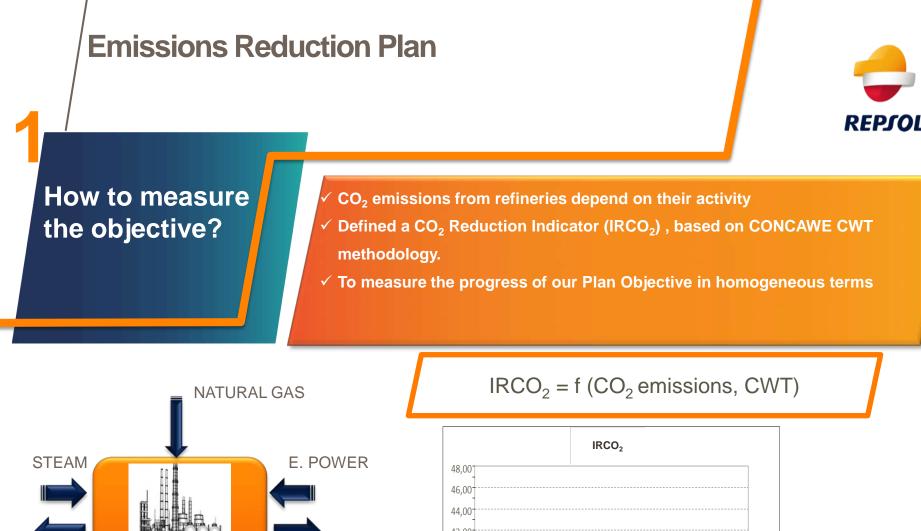


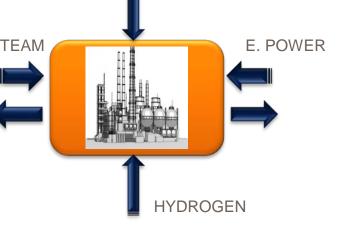




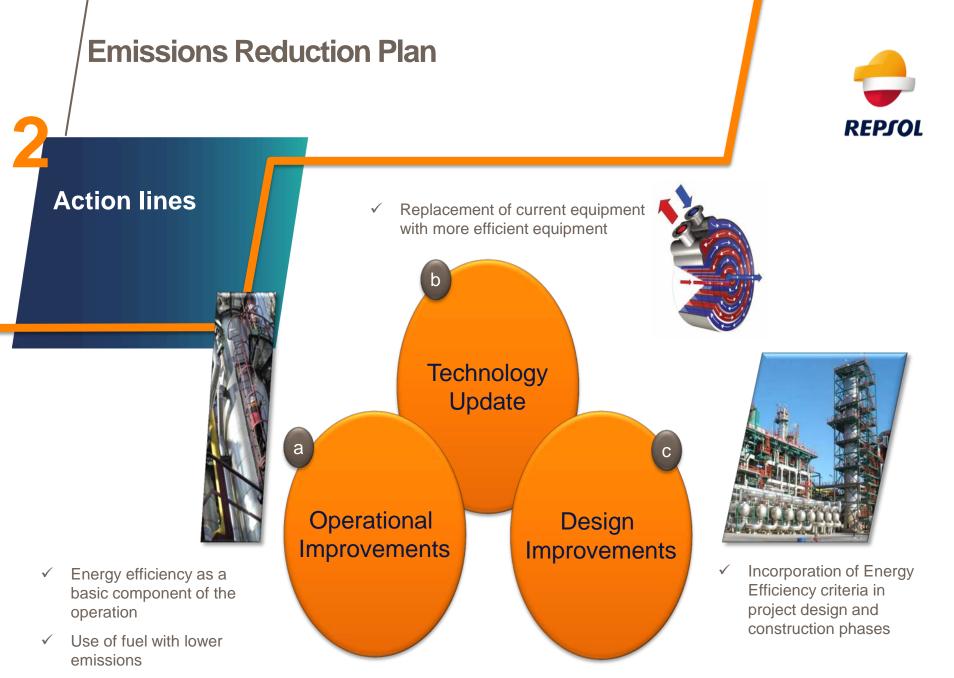


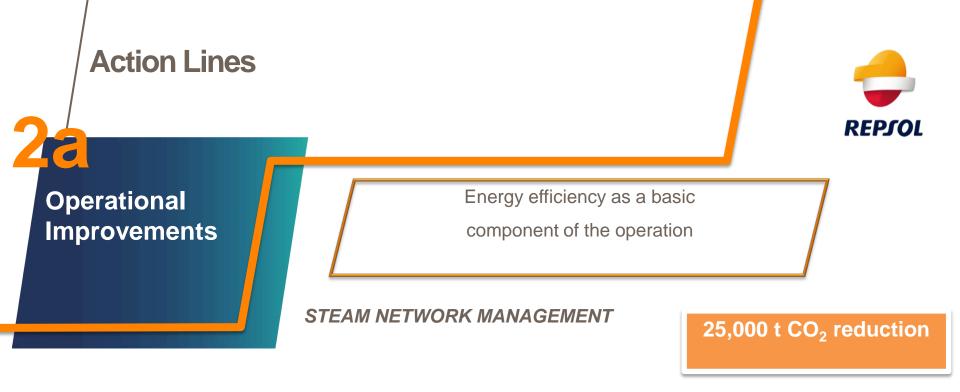


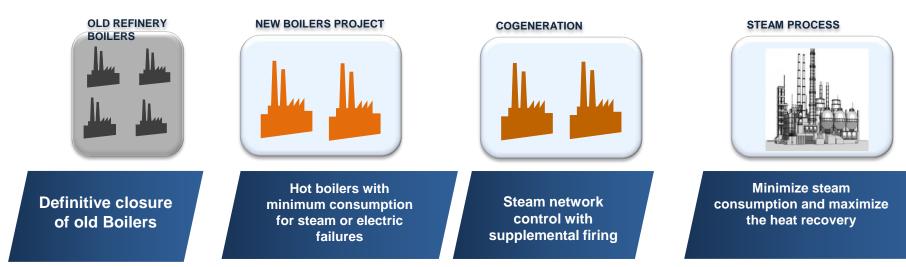




IRCO₂ 48,00 46,00 44,00 40,00 38,00 36,00 36,00 32,00 30,00 2006 2007 2008 2009 2010











Technology Update

40

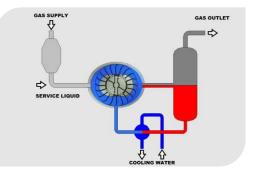
Replacement of current equipment with more efficient equipment

FLARE GAS RECOVERY

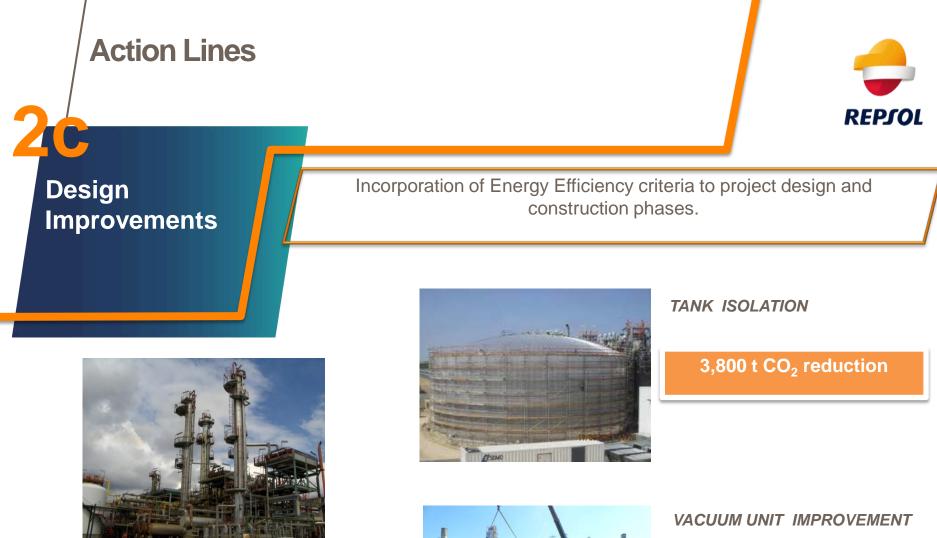


4,100 t CO₂ reduction

Send recovered gases to the FG system and avoid burning them in the flare.





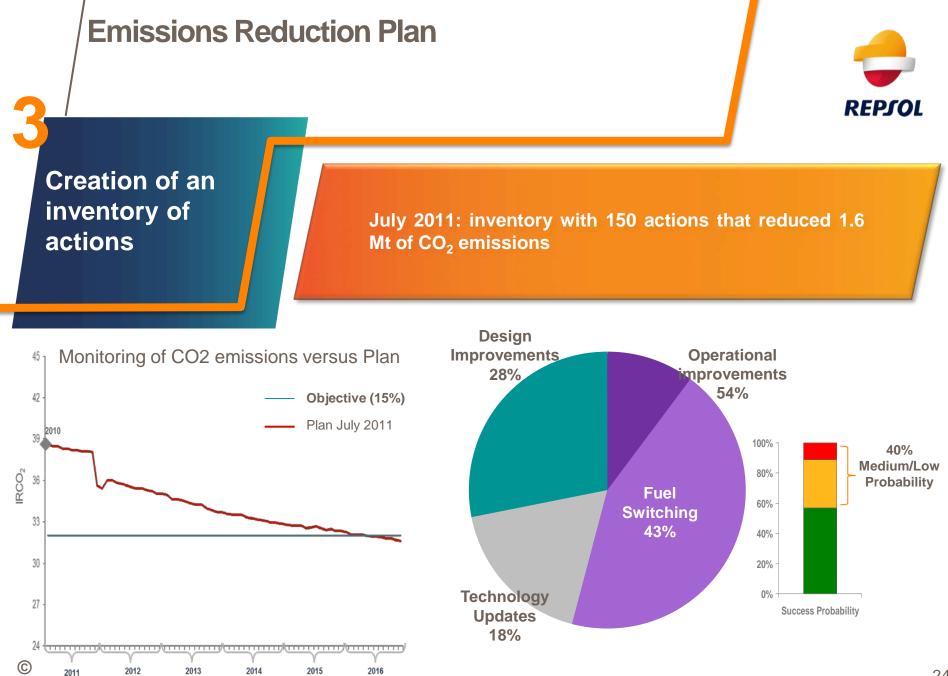


SOUR WATER AND SULPHUR RECOVERY UNITS MODIFICATIONS

13,000 t CO₂ reduction



4,300 t CO₂ reduction





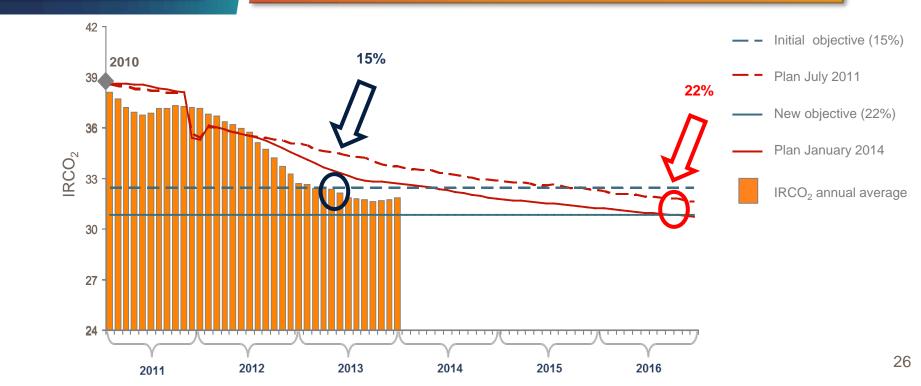
Emissions Reduction Plan

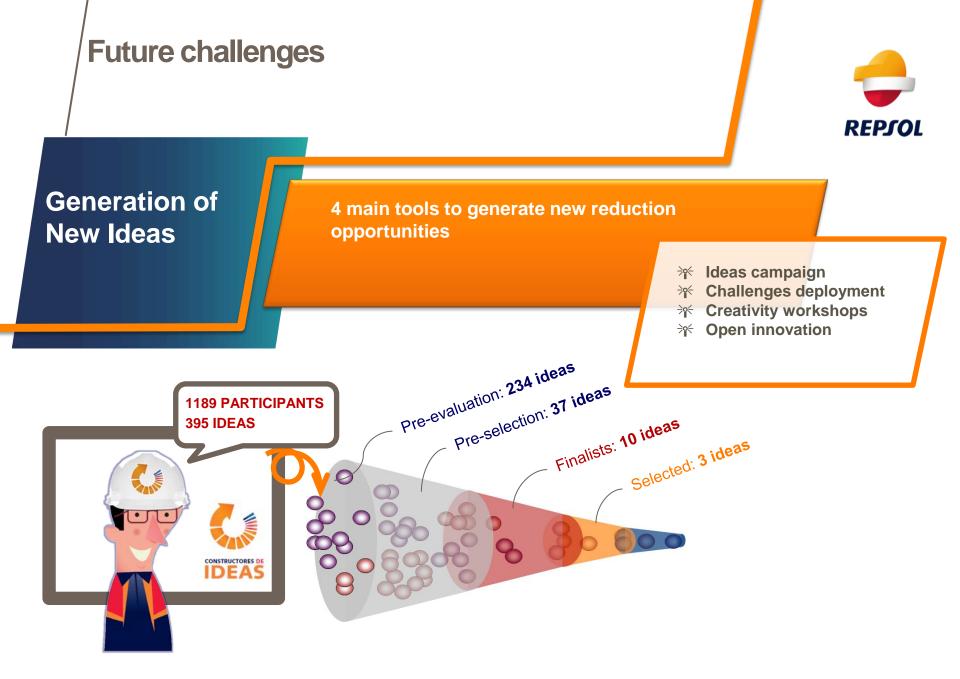


New Reduction Objective

 \bigcirc

We have achieved the 15% CO₂ reduction three years ahead of time, so we are setting a new objective of 22% in 2016 compared to 2010









© Compañía. Dirección que ha elaborado el documento. Fecha completa.