



Energy and CO₂ efficiency to enhance competitiveness

We are energy intensive

Our targets

Energy spend*

€1 billion in 2012

CO₂ footprint

12.3 Mt CO₂eq

> € 100 m REBITDA impact by 2016

Reduce energy consumption** and CO₂ emissions** by 10% by 2020
SOLVAY Way



^{**} ChlorovinyIs discontinued

^{**} At constant perimeter

Solvay Energy Services, a unique response to the energy challenge

Entrepreneurial specialist team

Organized as a profit center

Large spectrum of expertise from industrial operations to trading floor

Building innovative integrated sustainable energy solutions

Best-in-class integrated energy management

Selling expertise to third parties

Innovation track record



Best-in-class integrated energy management

A breakthrough energy efficiency approach



Transforming access to energy markets

Optimizing and developing energy production on our sites

Innovative solutions to finance energy efficiency projects

Leveraging unmatched track record in CO₂ reduction





A breakthrough energy efficiency approach

25 highly skilled experts ww

- Tracking optimization opportunities on every Solvay plant
- Unpreceded mobilization of industrial staff on energy management optimization

- Deployed on 30 sites since 2012, covering ~60% of the Group net financial energy bill
- By 2015, 100% of sites to be covered

10% Group energy bill savings by 2016





A breakthrough energy efficiency approach





Deploy transversal site diagnosis

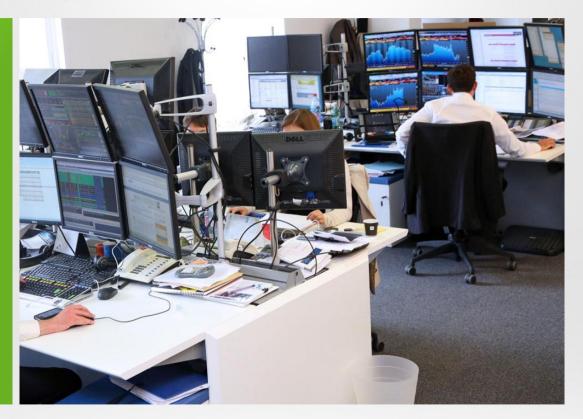
Efficiency projects with payback < 3 yrs

Conduct behavioral change & monitor



Transforming access to energy markets

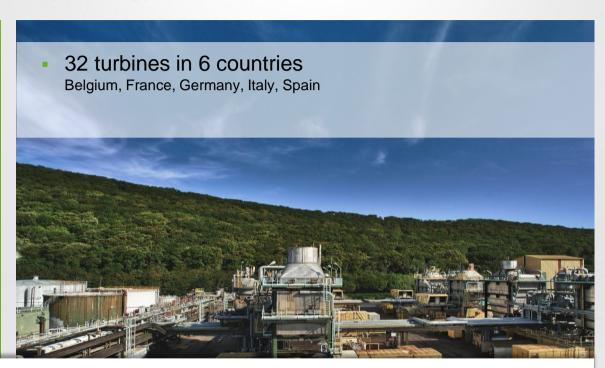
- Direct access to energy markets
- Own dispatching unit
- Trading
- Demand management team
- Dispatching 20% of French gas industrial market





Optimizing and developing energy production on our sites

- Designing, construction, maintenance and operation of energy assets
- Internalizing outsource assets
- Building new assets when market/subsidies opportunities
- Managing assets in a pool to optimize their value



Enhancing natural hedge



Innovative solutions to finance energy efficiency projects

Financing vehicle developed with and **Marubení**



 Small size projects (€ 5 to 50 m), with payback period over 3 years

- Allowing quick deployment
- Accelerating the energy transition

First project at Solvay's Rare Earth plant in La Rochelle (France)

(November 2013)





Leveraging our unmatched track record in CO₂

Global experts on CO2 operations and markets (Europe, China, California, South Korea)

2 main GHG* projects in Brazil and Korea renewed for 7 years**: 14 m CER/y

Optimal positioning to address potential market developments in 2015

* Green House Gas

** Starting in 2013



Solvay Energy Services, an innovation incubator

Energy consumption reduction

Greenhouse gas emissions reduction

Aggregation of consumption, flexibility and decentralized production

Renewable energies development

Energy transition





