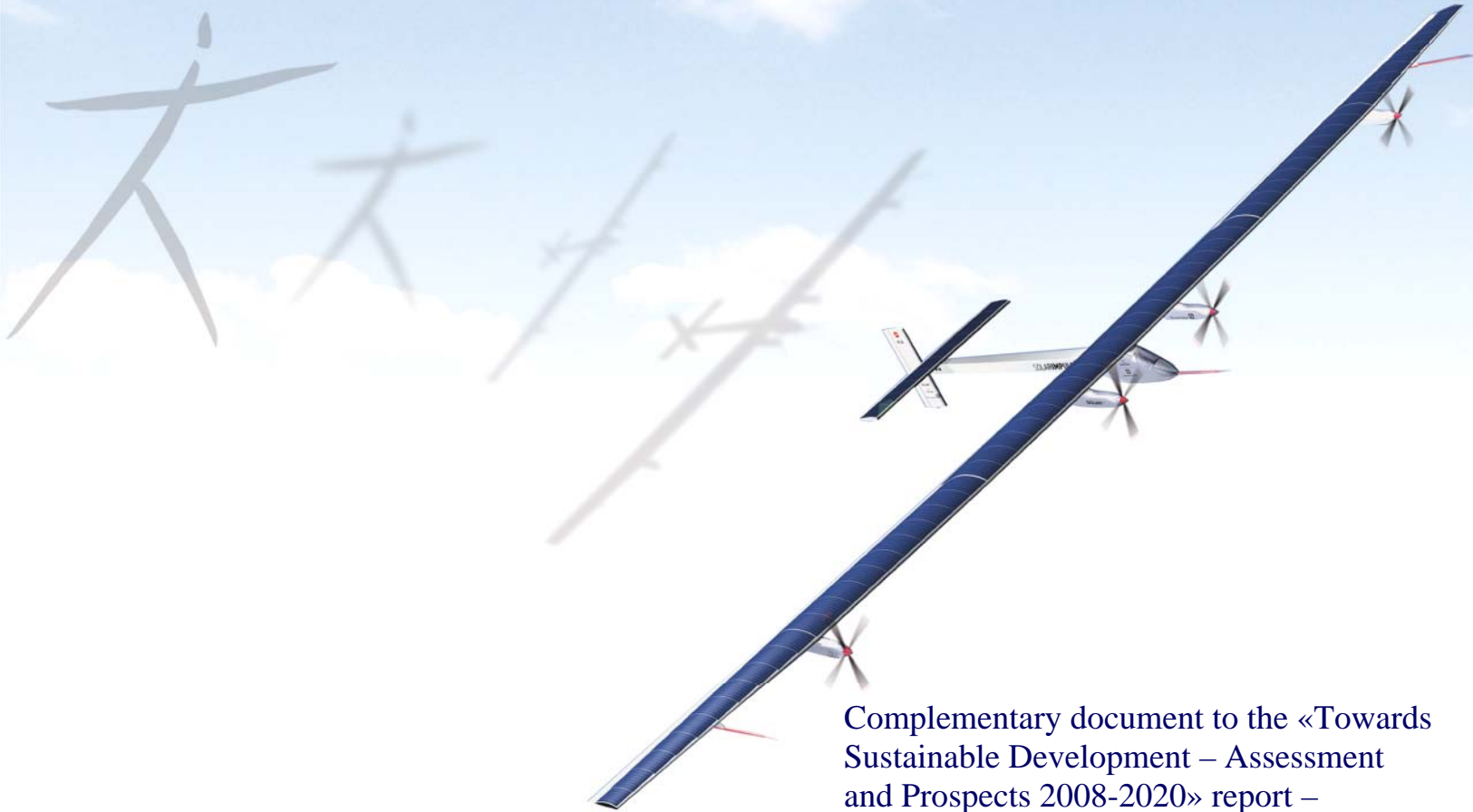


Sustainable Development Indicators (2008)



Complementary document to the «Towards Sustainable Development – Assessment and Prospects 2008-2020» report – with consolidated data up to end 2007

SOLVAY
MAIN PARTNER
SOLARIMPULSE.



Complementary document to the «Towards Sustainable Development – Assessment and Prospects 2008-2012» report

Reporting boundaries

The Solvay group has 178 production sites, including 58 for the joint ventures PipeLife (plastics pipes and fittings) and Inergy Automotive Systems (vehicle fuel systems), in a total of 37 countries (2007 figures).

The Sustainable Development report includes companies of which the Solvay group owns at least 50%. The quantitative data relate to activities managed by the Group.

Complementary document 2008

This complementary document to the “Towards Sustainable Development Report 2008-2012” contains additional quantitative data related to activities managed by the Solvay group.

The data, presented along the GRI framework, include up to end 2007 figures collected from individual sites, consolidated and validated.

Please refer to the GRI index in our “Towards Sustainable Development Report 2008-2012” for an overview of our Sustainable Development reporting through this report, the 2007 annual report, and the present document.

Scope of the data

- The *quantitative data for environmental parameters* relate to the 112 production sites (2007), including those operated by the joint ventures, where production involves significant releases into the environment (thus excluding PipeLife activities).
- The *quantitative data relating to safety* refer to all the operation for which Solvay is in charge of the technical management, amounting to 154 sites (2007).
- *Human resources management and policies* in this field relate to all of the management units including (except in respect of staff training policies) the joint ventures where Solvay has a majority shareholding.

Other sources of data concerning our sustainability performance

- Solvay group’s annual report (*for financial data*)
- The solvay.com and solvaysustainable.com websites
- Websites of the European Pollutant Emission Register (*Europe*) and Toxic Release Inventory (*USA*)

2. Profile of the organization

Markets served with geographic breakdown

Customer markets (GRI 2.7) % of 2007 sales (total = 9399 million euros)	
Human health	29%
Automotive	13%
Building and construction	11%
Chemical industry	9%
Glass industry	6%
Water and environment	5%
Electrical and electronics	4%
Paper	4%
Consumer goods	2%
Detergents, cleaning products and hygiene	3%
Packaging	3%
Human and animal nutrition	1%
Other industries	9%

3. Report parameters: Report profile - Report scope and boundary

Data-measurement techniques and bases for the calculation of quantitative data

Validation of published environmental data (GRI 3.9)	
% of sites included in the SERF internal validation	100%

4. Governance, commitment and engagement: Dialogue with stakeholders

Approaches to dialogue with the stakeholders

Percentage of sites with a formal plan for communication with the local residents (GRI 4.16)	
Yes	0.57
No	0.43

5. Performance indicators

Economic performance

Economic value generated and distributed

Distribution of the economical value of the Group's output (GRI EC1) Million euros (2007)			
Turnover	9572		
Dividends	243	3%	
Purchases of goods and services	2958	31%	
Purchases of raw materials	3313	35%	
Staffing expenditure	2082	22%	
Other	976	10%	

Growth in Solvay production (GRI EC1) Sales, millions of euros			
1996	2005	2006	2007
6990	8562	9399	9572

Environmental performance: Energy

Direct energy consumption, and distribution in terms of primary source

Energy consumption (GRI EN3) Terajoules				
	1995	2005	2006	2007
Coal	28001	42952	46300	46388
Oil	14253	1379	872	512
Natural gas	44411	41905	38458	40089
Hydrogen	222	3046	3363	3346
Waste	46	184	308	500
Other fuels	63	1710	1709	1662
Electricity	6636	27193	26548	27471
Steam purchased	16	22637	22573	22401
Total energy consumption	93648	141006	140131	142369

Energy savings

Steam-and-electricity cogeneration units (GRI EN5)		
Plant	Country	Total recurrent CO2 reductions (total= 4,487 kilotonnes per year)
Bernburg	Germany	822
Rheinberg	Germany	290
Rosignano	Italy	1452
Torrelavega	Spain	252
Dombasle	France	256
Chevigny	France	5
Jemeppe	Belgium	381
Tavaux	France	526
Deer Park	USA	98
Povoa	Portugal	288
Martorell	Spain	117
TOTAL		4487



Environmental performance: Water

Quantities of water consumed, by source

Water consumption (GRI EN8)				
1000 m3				
	1995	2005	2006	2007
Drinking water	2492	10770	9871	9220
Surface water	27729	331196	342428	328392
Underground water	4447	106947	103114	99536
Sea water	0	81065	72758	72234

Environmental performance: Emissions, effluent releases and waste products

Emissions of greenhouse gases

Direct emission of greenhouse gases (GRI EN16)				
From our production units, kilotonnes CO2 equivalent				
	1995	2005	2006	2007
CO2 directes	8237	8683	8550	8548
CH4	138	380	382	539
SF6	153	239	239	123
N2O	0	6.79768	7.13682	13
Other HFC	0.0005	2.415	2.189	1
Other PFC	0	15	15	22
HFC23	7933	767	559	510
HFC 125	0	3	12	12
HFC 134a	0	32	13	19
HFC 227ea	0	19	16	22
HFC 143a	0	14	32	19
Total GHG directes	16461	10161	9827	9828
CO2 ind. Elec purch. (Energy summary)		2506	2548	2690
CO2 ind. Steam purch. (Energy summary)		1923	1928	1920
Total GHG direct et indirect		14590	14303	14438

Initiatives aimed at reducing emissions

Changing production technology for chlorine and caustic soda (GRI EN18)			
% of Solvay's total production capacity			
	2001	2005	2007
Mercury	65.5	61.5	50.8
Membrane	24.7	32.9	44.2
Diaphragm	9.8	5.5	

Improvement of environmental performance (GRI EN18)		
% of sites with an improvement plan (not including the PipeLife and Inergy joint ventures)		
Improvement plans reviewed by the site Management		48%
Improvement plans with targets for emission reduction within two years		28%
No improvement planned		24%

Emissions of ozone-depleting substances

Total emissions of ozone-depleting gases (ODP: ozone depletion potential) (GRI EN19)			
Kilotonnes CFC11 equivalent			
1995	2005	2006	2007
61.32	37.99	32.75	32.36

Sulfur oxides, nitrogen oxides and other emissions into the air

Volatile Organic Compounds (excluding methane) (GRI EN20)			
Kilotonnes			
1995	2005	2006	2007
5.9	4.4	2.7	2.3

Volatil Inorganic Compounds (VIC) (GRI EN20)			
Tonnes			
1995	2005	2006	2007
4761.1	4619.49	3762.48	3655.06

Sulfur oxides (SOx) (GRI EN20)			
Tonnes			
1995	2005	2006	2007
25607	23704	14080	15002

Nitrogen oxides (NOx) (GRI EN20)			
Tonnes			
1995	2005	2006	2007
15265.85	19949.08	19325.31	18372.95

Dust (GRI EN20)			
Tonnes			
1995	2005	2006	2007
14518.84	7993.73	8624.75	5598.77

Heavy metals (GRI EN20)			
Kilotonnes			
1995	2005	2006	2007
6.5	2.4	2.52	4.3

Global Air Emission Index (GRI EN20)					
Kilotonnes equivalent					
	1988	1995	2005	2006	2007
Without sites acquired	4.86	3.48	1.24	1.26	1.17
Sites acquired since 1995			1.07	0.96	0.63
TOTAL	4.86	3.48	2.31	2.22	1.8



Emissions into water

Heavy metals (GRI EN21)			
Kilotonnes			
1995	2005	2006	2007
68.192	56.766	N/A	47.253

Impact eutrophication (GRI EN21)			
Kilotonne PO4 equivalents			
1995	2005	2006	2007
1522.701	1653.606	N/A	1576.037

Priority substances in water (GRI EN21)			
Tonnes			
1995	2005	2006	2007
8.735	5.088	3.853	2.886

Chemical Oxygen Demand (COD) (GRI EN21)			
Kilotonnes equivalent			
1995	2005	2006	2007
11.66	7.45	6.81	6.3

Global Water Emission Index (GRI EN21)				
Tonnes equivalent				
1988	1995	2005	2006	2007
23861	5225	4297	3660	3537.652

Waste products, by type and mode of treatment

Hazardous waste landfilled outside - (GRI EN22)	
Tonnes	
2007	13494

Non hazardous waste put into landfill (GRI EN22)	
Tonnes	
2007	257441

Hazardous waste total - (GRI EN22)	
Tonnes	
2007	77565

Waste global index - (GRI EN22)	
Tonnes equivalent	
2007	26382

Environmental performance: Products and services

Initiatives aimed at controlling the environmental impact of the products and services

Transport companies audited in accordance with SQAS (GRI EN26)			
All companies, Europe			
1995	2005	2006	2007
88	478	521	555

Environmental performance: Transport

Significant environmental effects from transporting products, raw materials or personnel

Distribution of modes of transport used for finished products (GRI EN29)	
In Europe	
Road	60%
Rail	20%
Sea	15%
Waterway	5%

Modes of transport for main raw materials to produce soda ash (GRI EN29)				
Kilotonnes, worldwide 2006				
Raw materials	Road	Ship	Rail	Pipeline
Limestone	1600	0	3450	0
Salt (as brine)				8000
Coal	100		2250	1700
Soda Ash/Bicar/Caso	3582		1700	679

Social performance: Employment and work

Total workforce by employment type, type of employment contract and region

Employees - numbers and geographical distribution on 1/1/2008 (GRI LA1)	
NAFTA	4531
Mercosur	1502
Asia/Pacific	2189
Africa	54
Europe	20064
Total	28340

Distribution of personnel by category (GRI LA1)	
Employees	12795
Workers	7984
Managers	7561

Social performance: Health and safety at work

Cases of injury, occupational diseases, days lost & absences, and fatal accidents

Accident frequency rate at ex-Fournier sites (GRI LA7)			
Accidents per million hours worked			
1995	2005	2006	2007
N/A	20	14.6	3.2

Occupational illnesses - all types (GRI LA7)					
Reporting covering Europe, Brazil, Argentina and Thailand					
i.e. 77% of the personnel (2007)					
	Asbestos benign pathologies	Asbestos cancer	Hearing disorders	Malignant hemopathies	Musculo-skeletal disorders
Notified to health authorities	11	4	4	2	18
Notified & recognized as an occupational illness	4	2			9

Accidents of people at the Group's sites (excluding PipeLife and Inergy joint ventures) (GRI LA7)			
Solvay employees ¹ subcontractors ²			
	2005	2006	2007
Gravity rate ¹ : number of days' work lost following accidents per million hours worked	0.11	0.07	0.06
TF0 ² : accidents (involving and not involving stopping work) per million hours worked	10.3	8.3	8
TF1* - TF1** ² : accidents involving stopping work, per million hours worked	3.2	3.1	2.4
TF1* ² : accidents involving stopping work, per million hours worked	2.7	2	2.1

Training and prevention measures relating to serious illnesses

Protecting against chemicals exposure at workstations (2007) (GRI LA8)	
% of Solvay sites making use of the EATool assessment at workstations	
All workstations assessed	6%
In progress	59%
Planned by the end of 2008	35%

Safety training programs for subcontracting firms number of sites that have carried out training programs during the past two years (GRI LA8)	
Chemicals Sector	41
Pharma Sector	75
Plastics Sector	14
No training program	24

Inclusion of occupational-hygiene data in the Medexis information system (GRI LA8)	
% of workstations (worldwide, excluding joint ventures)	
2008	20
Target for 2012	80

Inclusion of medical monitoring data in the Medexis information & management system (GRI LA8)	
% of employees (excluding United States and joint ventures)	
2008	5
Target for 2012	70

Social performance: Social responsibility - Policy in relation to public bodies

Involvement in developing the policies of public-sector bodies

Number of people assigned to Public Affairs, and location (GRI SO5)	
Full-time equivalents	
Headquarters	10
Elsewhere in Europe	5
Outside Europe	5

Social performance: Product responsibility - Customer health and safety

Assessments of the health and safety effects of the products and services (impact over the whole lifecycle)

Risk analyses for chlorinated chemicals - Euro Chlor program (GRI PR1)			
Total number of compounds assessed			
1995	2005	2006	2007
N/A	21	24	27



Other indicators

Environmental management systems	
Number of sites	
ISO 14001 certified	37
Emas, RC, others	26
Planned	7
Not certified	37
Sites acquired since 2004	29

Living Solvay Values: "I believe the Solvay Group values are lived"	
Solvay People Survey, 2006	
Yes	56
No opinion	31
No	13

Respect and Fairness: "I am treated with respect and fairness"	
% of the personnel in Solvay People Survey, 2006 (covering 78% of the personnel)	
Yes	72
No opinion	16
No	12

Involvement in Innovation: "I am encouraged to be innovative in my job."	
% of the staff in Solvay People Survey, 2006 (covering 78% of the staff)	
Yes	67
No opinion	20
No	13

Mean numbers of ideas per person			
introduced by the employees into the ideas boxes			
2004	2005	2006	2007
0.56	0.69	0.73	0.29

Sites complying with the Risk engineering audit program of the Group	
% of sites	
2006	100

"I think that my firm acts responsibly in relation to the environment"	
Yes	0.83
No opinion	0.13
No	0.04

Solvay People Survey: Top 5 Most Favorably Rated Items	% favorable	% neutral	% unfavorable
I have a very clear idea of my job responsibilities.	92	5	3
I have a clear understanding of how my job contributes to accomplishing the goals/objectives of my company.	89	8	3
I believe that my company is environmentally responsible.	83	13	4
I have a clear understanding of the goals and objectives of my department.	82	10	8
In my department, we respond to customer requests with speed and efficiency.	81	14	5

Solvay People Survey: Top 5 Most Unfavorably Rated Items	% favorable	% neutral	% unfavorable
I am satisfied with the pay I receive for my current job.	37	25	38
There are sufficient opportunities for me to receive cross-training to learn other jobs.	41	26	33
The management style in my company encourages employees to perform to the best of their ability.	46	25	29
I believe the management of my company makes decisions rapidly.	41	32	27
The results of the last employee survey were used constructively.	32	43	25

