Enel Environment and Biodiversity Reporting

Roma, July 7th 2014 Carlo Ferrara



Agenda



• Enel Group and Enel Environmental Policy

• Enel and Biodiversity Reporting







Presence

11 countries

Net installed capacity

46 GW

Customers

~34 million

Employees

51,778

EBITDA

~8 €bn²

Net installed capacity

99 GW

Presence

40 countries

Customers

~61 million

Employees 71,394

EBITDA

~16 €br²

Capex Plan 2006-2010

~18 €bn³

Capex Plan 2014-2018

~26 €bn³

Enel has been transformed into a fully integrated multinational player

^{1.} Data as of December 31st

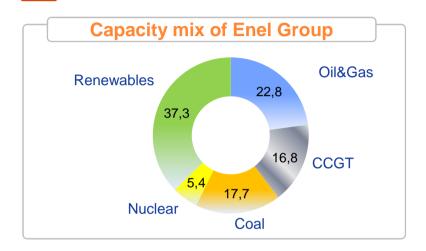
^{2.} Recurring EBITDA

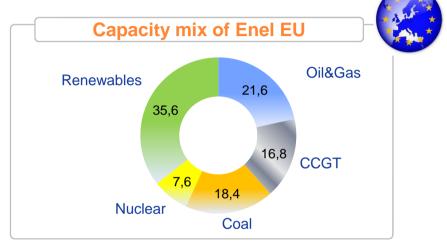
^{3.} Net of connection fees

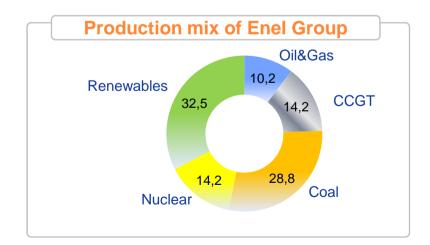


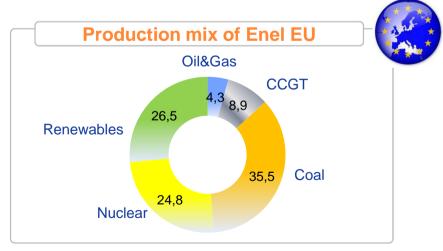






















Impacts on and dependence by local ecosystem



Corporations Industrial System



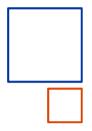




Impacts on and dependence by global ecosystem

Grassroots movements, NGOs and national and international civil society

One of the most relevant challenges for every operator or industrial system aiming at be a global leader



Group Environmental Policy



Enel regards the environment, the fight against climate change and sustainable development as strategic factors in carrying out and expanding its operations and as key drivers for consolidating its leadership in energy markets.

In agreement with the ethical codes of conduct guiding principles of social responsibility, everyone working in the Group is involved in seeking improvements in the environmental performance.

The Group's environmental policy, considering compliance with the standards and laws as a prerequisite for all the activities, is based on **three fundamental principles** and pursues ten strategic targets.

Principles:

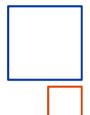
- •Safeguarding the environment.
- •Improving and promoting the environmental features of products and services.
- •Creating corporate value.

Strategic targets

- •Application of internationally-recognized **environmental management systems** based on the continuous improvement principle and setting up environmental indexes to measure the environmental performance to the entire organization.
- •Optimized integration of installations and buildings into the landscape, while conserving **biodiversity**.
- •Mitigation of environmental impacts by applying the best available technologies and the best practices in construction, operation and decommissioning of installations.
- •Leadership in renewables and low-emission electricity generation.
- •Efficient use of energy, water and raw materials.
- •Optimized management of waste and liquid releases.
- •Development of innovative technologies for the environment.
- •Communication of Enel's environmental management efforts to citizens, institutions and other stakeholders.
- •Environmental awareness, training & education of employees.
- •Promotion of environmentally-sustainable practices among the Group, suppliers, contractors and customers.

 The Chief Executive Officer

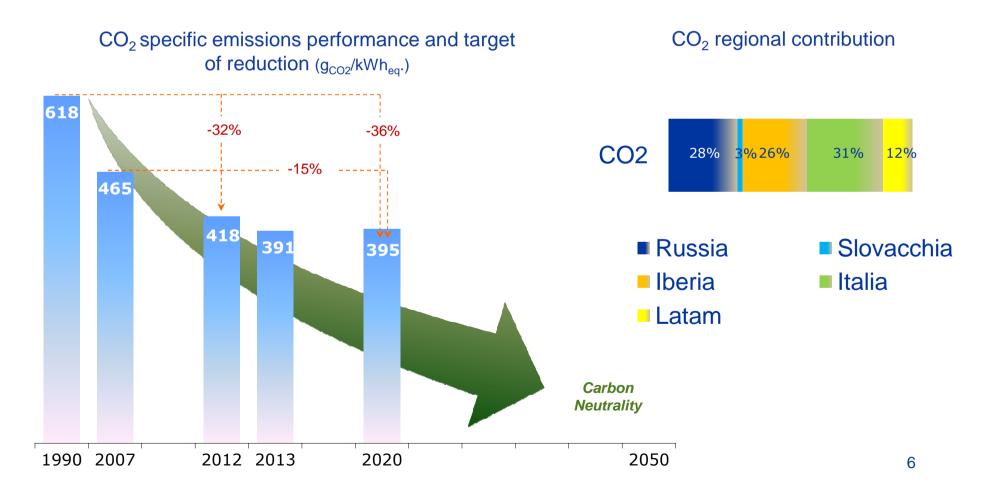
and General Manager



CO₂ specific emissions towards the "Carbon Neutrality" ** Enel



ENEL last year already achieved the 2020 target of reduction

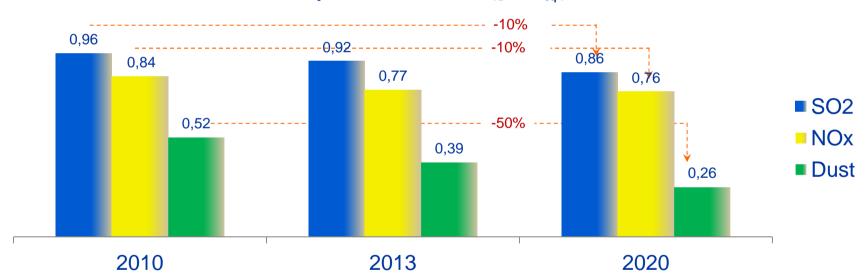


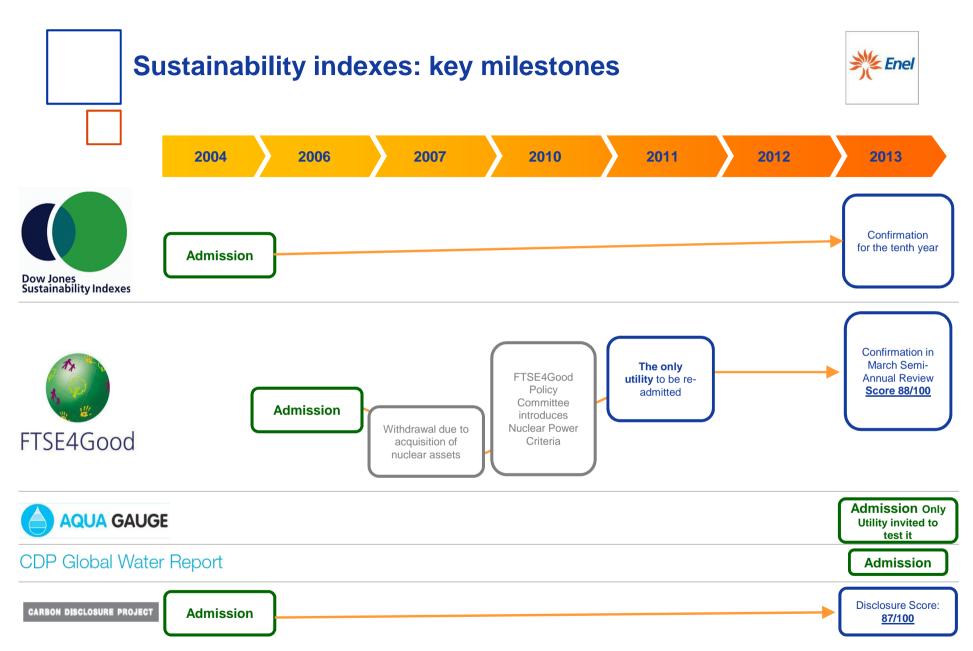


Emissions Performance and Reduction Targets



Specific Emissions (g/kWh_{eq}.)





Our efforts have been recognized by sustainability indexes and by the Social Responsible Investors accounting for 15,6% of Institutional Investors

Agenda



• Enel Group and Enel Environmental Policy

• Enel and Biodiversity Reporting

Why is BD important for Enel?



Why is BD important?

Biodiversity is the basis of innumerable environmental services that keep us and the natural environment alive. They can be categorised as follows:

- Supporting ecosystems: - Nutrient cycling
 - Soil formation
 - Primary production

Provisioning:

- Food - Fresh water
- -Wood and fibers
 - Fuel

- Regulating:
- Flood regulation
- Disease regulation

- Climate regulation
- Water and air purification

- Aesthetic

- Cultural: - Spiritual - Educational
- Recreation

Biodiversity emerging trends

Integration in Government policies and business strategies



Why BD matters for businesses?



- · Securing the license to operate: Demonstrating that a particular industry or manufacturing process can co-exist with natural ecosystems is becoming an increasingly important criteria for any company to retain its 'license to operate'.
- Reducing operating costs: reducing natural resources consumption and pollution benefit both the costs and biodiversity.
- Enhancing reputation and brand: impact on biodiversity can significantly damage market reputation.
- Improving productivity: employees can be motivated by biodiversity commitment and sustainability objectives.
- Increasing market access: with increased awareness of threats to biodiversity, customer expectations are changing.
- Maintaining capital access: Environmental and social issues, including biodiversity, are also an increasingly important factor for institutional investors and equity analysts.

IFC: International Financial Corporation

Biodiversity global framework

After Rio Convention on Biodiversity

The 10th Conference of Parties in Nagoya adopted:



- > The Protocol on Access to Genetic Resources and the Fair and Equitable Sharing of Benefits Arising from their Utilization
- > The Strategic Plan for Biodiversity for 2011-2020 ("Aichi targets")

The Nagova Protocol has been added to the Convention adopted in Rio in 1992.

- · EU strategy for Biodiversity Conservation has been set by the European Commission in 2011, through Communication COM(2011) 244 ("Our life insurance, our natural capital: an EU biodiversity strategy to 2020")
- All Enel's Countries ratified Rio Convention and are developing their "National Biodiversity Strategies and Action Plans"

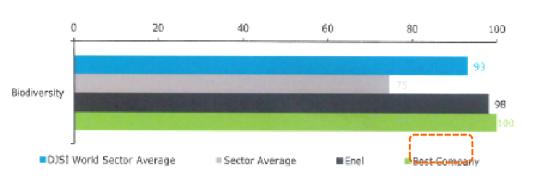




Towards the ENEL Group Biodiversity Plan









Mapping of Initiatives

A first recognition of all the initiatives at group level has been already put in place collecting info regarding:

- Field Classification (set of biological info)
- Country
- Species, or ecosystems, objective of the project
- Voluntary or compulsory nature of the project
- Existence of a technical or scientific documentation of the results of the activity.
- Implementation Status
- Cost of the initiative (€)

□133 projects

≥34 completed

≥98 ongoing

97 projects voluntaries

≽69 ongoing

☐ 36 mandatory

≥29 ongoing

Environmental reporting – a consolitated experience





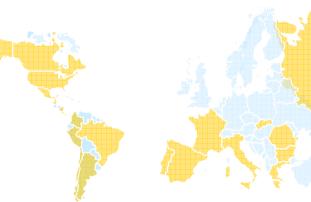
Methodology used:

- Guidelines: "Sustainability Reporting Guidelines & Electric Utility Sector Supplement"
- Collaboration and advice of independent auditors
- Technical definitions UNIPEDE
- · Continuous updating on the basis of changes of the organizational structure
- Omogeneous procedures for data collection and calculation of indicators

<u> 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 </u>

Informations reported:

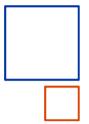
- Operational data (resources, facilities, products, emissions, waste, etc.)
- Governance (organization, EMS, training, criticalities, litigations, etc.)
- Environmental expenditure (current expenditure, investiments)
- Biodiversity
- Renewables
- Innovation
- Climate Strategy



Continuous improvement of activities and information inside the reporting

Full involvement of operational units

Control and audit made by independent third parties



The environmental reporting tool



Strengths

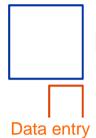
- Consolidated process (Control and audit made by independent third parties)
- Detail (from Division to plant) and quantity of information
- Reporting perimeter coherent with the Group enlargement
- Dynamic tool, easy to implement modifications
- Reduced volume of requested data by:
 - rationalizing them (e.g waste and gross production)
 - copying "Fixed data" from previous reporting year
- Possibility to comment¹ any single data or data entry sheet
- ER + Business Object² = Environmental report

Reference tool for the Group

- Dow Jones Sustainability Index
- Carbon Disclosure Project
- CDP Water
- Carbon footprint and other environmental footprint
- · Best Practice Sharing
- CSR

Note:

- (1): Comments must be seen as the most helpful things and one of the greatest input giving Holding an instrument more to approach the writing of the annual Environmental Report
- (2): Web tool supplied to Holding for reports generation necessary for typesetting of the environmental report



Environmental reporting activity

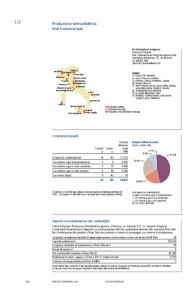


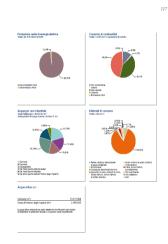
Performances elaboration and publication

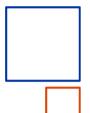
- 1200 input from 123 thermal power plants
- 680 input from 7 nuclear power plants
- 420 input from 970 renewables power plants
- 220 input from 24 units of electricity distribution
- 590 input from other activities
- 60 input from market activities
- 220 input from 23 Countries for GRI
- 400 input from 23 Countries for Governance
- 483 input from 23 Countries for Environmental Expenditure

Check









Biodiversity Expenditures Reporting in Enel



	Enel SpA		ITALIA			INTERNAZIONALE			TOTALE		
	Spesa Ambientale										
			2011	2012	2013	2011	2012	2013	2011	2012	2013
		Anno	2011	2012	2013	2011	2012	2013	2011	2012	2013
	E CORRENTI PER LA PROTEZIONE DELL'AMBIENTE (SPESA DIRETTA E ABILIZZATA AL 100%, RIO MARKER 2)										
Totale spese della gestione ordinaria per la protezione dell'ambiente(comprese le maggiori spese sostenute per l'acquisto di combustibili 'puliti', attribuite al dominio ambientale "Protezione dell'aria e del clima")		Migliaia di euro	178.344	230.641	178.600	309.723	345.282	310.494	488.067	575.923	489.095
di cui	Protezione della biodiversità e del paesaggio	Migliaia di euro	840	965	779	3.224	3.587	3.791	4.064	4.552	4.570
	Spese per attività di protezione dell'ambiente svolte in proprio										
	Protezione della biodiversità e del paesaggio	Migliaia di euro	350	352	290	340	275	751	690	627	1.041
	Spese per servizi di protezione dell'ambiente acquistati all'esterno		L								
	Protezione della biodiversità e del paesaggio	Migliaia di euro	427	583	420	2.655	3.148	2.582	3.082	3.731	3.002
	Spese per imposte ambientali specifiche										
	Protezione della biodiversità e del paesaggio	Migliaia di euro	0	0	0	0	ø	336	8	0	336
	Altre spese per la protezione dell'ambiente										
	Protezione della biodiversità e del paesaggio	Migliaia di euro	63	30	69	250	164	123	313	194	191
Spese	oggetto di registrazione separata (SPESA IN-DIRETTA E CONTABILIZZATA AL 40%, RIO	MARKER 1)									
	Oneri per compliance emissioni di gas serra nell'anno di reporting. Valutazione al 40%	Migliaia di euro Migliaia di euro	ad ad	8d 8d	360.000 144.000	ed ed	ed ed	-25.000 -10.000	94.000 37.600	182,000 73,000	335,000 134,000
	TIMENTI NTI ESISTENTI E NIIOVI										
MPIAI	NTI ESISTENTI E NUOVI										
Totale	investimenti per la protezione dell'ambiente	Migliaia di euro	180.233	177.594	180.361	70.608	346.096	137.393	250.841	523.690	317.753
di cui	Protezione della biodiversità e del paesaggio	Migliaia di euro	57.298	50.426	38.711	14.752	120.342	21.121	72.050	170.768	59.832
	Investimenti in sistemi e attrezzature per l'abbattimento dell'inquinamento										
	Protezione della biodiversità e del paesaggio	Migliaia di euro	14.566	6.568	4.652	2.241	107.588	13.525	16.807	114,156	18.177
	Investimenti in sistemi e attrezzature che prevengono o riducono alla fonte l'inquinam		1								
	Protezione della biodiversità e del paesaggio	Migliaia di euro	42.732	43.858	34,059	125	889	198	42.857	44.747	34.257
	Altri investimenti per la protezione dell'ambiente	Migliaia di euro									

With regard to environmental expenditure, these (investments and current expenses) are recognized using a classification system based on the criteria Eurostat / Istat, which he considers "environmental protection expenditure" expenses for activities and actions of prevention and reduction of pollution and environmental degradation, as well as for restoring the quality of the environment, regardless of the reason that determines the (legislation, agreements with local governments, business decision, etc.)...

Enel adopts the CEPA classification (Classification of Environmental Protection Activities). The mirror attachment shows the data of environmental expenditure for Biodiversity in 2013. Enel Group is able to easily collect these environmental expenditure (current expenditure and investments) on an annual basis for each country where the Group operates. The data therefore refer to the scope of the Group, accounted for 100% split for Italy and rest of the countries (International). The criterion we use CEPA covers 100% of the criterion also (Rio Marker 2), excluding the costs for the purchase of certificates for ETS considered indirect and therefore accounted for 40% (Rio Marker 1).

Matching CRS / CEPA





	_						
					Rio Marker 2 CSD: ostlytkies gireofia	Rin Marker 2 CBD: activities indirectly related to biodiversity	CO project descriptions
					related to blodiversity	related to biodiversity	
		AND RECORD CONTROL Control and control production					
	Description and the Con-	(recommend policy, less, regulations and accross a matro-policy,		Open after administration was not final liquid with protections which to efficient that is diffusionable as the protection of the protecti			
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				qualibri returel), comprese la rentirefazione di specia di produttori a il controlio della fische e della fische positiche che respresentano una minercia per la faune, la fische e gli habitati bossi.			
				In proceed with the serio is professed in all large shall were probably as a large test in love determinant over, and in a some probable de continues of ultransport concerning or the state of the statements of suggestion as an appropriate test contribute the future commendation and a finite terromagnetists as a contribute of statement of the			
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			E.A.11	open and would emission treatment are procured delta biodiversità e del passaggio, Soro comprese le etitica di registembalane, amministrativa, gestione, formazione, riformazione ad latrazione spolitiche della Casa E. 27			
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1000	Possity reserci	forestry projects on halling archival regime within genetic insprovement, production switched, familian harvesting	Apr.	Actività e recursi finalizzata alla consensazione, alla restroduzione o aria riobi factore di space accinati si especii i sancha accinizzatore, al recursos e ella ristrutturazione di tebita devenggiani al the di deffiniame la funciazi saburali. 19			
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econ 1	North description	and practice grades consecution of authorizants; and of characters of configurations are consecuted as a state of configuration and an advantage of the control of the cont	*3/P	de prince and letter de genor de gestione e les ord leader dels anne arabbe, estat imposé de la lors de terminances. The second of the letter de leader dels annes arabbes, estat imposé de la lors de terminances. The second of the letter dels consistent de la prince del prince de la prince del la prince de la prince de la prince de la prince del la prince del la prince del la prince de la prince del la prince			

Strengths	Evidences
Coeherent	Shared reportingRecognized by CBD
Data Robustness	 Already in operation Enel internal software Additional info by Biodiversity Plan Software flexible for new formats

Weakness	Evidences
Matching	 Not full correspondence between CEPA and CRS categories: partial; none. Need of additional check for some projects
Info details	 Expenditure detail level not in line with CRS Activity classification not in line with CRS



Thanks for your attention

Incontro esplorativo bilaterale MATTM – ENEL



Verso la CBD-COP12 di Pyeong Chang 2014

Motivo, obiettivo, scopo, modo

o motivi

- i <u>flussi privati</u> sostegno della biodiversità <u>non sono</u> sostanzialmente contabilizzati nell'obiettivo di
 - innalzare significativamente entro il 2020 le risorse finanziarie per la biodiversità [Aichi Target 20]
 - raddoppiare entro il 2015 i flussi internazionali [first interim quantification Aichi Target 20] in favore dei Paesi in Via di Sviluppo
 - mantenere almeno tale livello fino al 2020 [baseline = media flussi annuali 2006- 2010]

o obiettivo

 l'Italia, anche in relazione alla presidenza del semestre Europeo, si sta ponendo a capofila di un'iniziativa per <u>valorizzare</u> il ruolo dei flussi privati nella contabilizzazione

o scopo

 verificare se e in quale misura gli approcci utilizzati per la rendicontazione dei flussi pubblici sono trasferibili a quelli privati

o modo

- fornire degli spunti di analisi in un primo incontro informale
- elaborazione delle informazioni dal sistema di conoscenza aziendale
- follow up: analisi dei feedback e definizione di un primo possibile approccio condivisibile

Schema di contabilizzazione nazionale

Biodiversità



o Approccio

- SERIEE
 - Système Européen pour le Rassemblement des Informations Economiques sur l'Environnement
 - · CEPA (Classification of Environment Protection Activities)
 - CRUMA (Classification of Resource Use and Management Activities and expenditure)
 - Guida all'utilizzo di CEPA e CRUMA

http://www.rgs.mef.gov.it/ Documenti/VERSIONE-I/Attivit-

j/Rendiconto/Ecorendiconto/LeclassificazionidelleattivitaedellespeseambientaliCEPAeCRUMA.pd

Quali attività

CEPA 6. Protezione della biodiversità e del paesaggio

6.1 Protezione e riabilitazione delle specie e degli habitat, 6.2 Protezione del paesaggio naturale e seminaturale, 6.3 Monitoraggio, controllo e simili, 8.6 R&S per la protezione delle specie e degli habitat, 8.8 Altre ricerche sull'ambiente, 6.4 Altre attività, 9.2 Istruzione, formazione ed informazione, 6.4 Altre attività, 9.1 Amministrazione e gestione generale dell'ambiente

In estrema sintesi

- attività e azioni per proteggere e riabilitare le specie animali o vegetali, gli ecosistemi o gli habitat, compresa la lotta contro gli incendi boschivi)
- Sviluppo e gestione aree protette, parchi e giardini urbani per tutelarne la biodiversità
- protezione e ripristino del paesaggio naturale e semi-naturale
- monitoraggi, controlli, analisi

o utilizzata per la stima della spesa diretta per la biodiversità

Quali attività

CRUMA 12. Flora e fauna selvatiche

12.1 Riduzione del prelievo, 12.2 Ripopolamento, 12.3 Gestione diretta della flora e della fauna selvatiche, 12.4 Monitoraggio, controllo e simili, 15.3 RSS per l'uso e la gestione di flora e fauna selvatiche, 12.5 Altre attività, 18.2 Istruzione, formazione e informazione, 15.6 Altre attività di R&S per l'uso e la gestione delle risorse naturali, 12.5 Altre attività, 16.1 Amministrazione generale delle risorse naturali.

In estrema sintesi

- Attività e le azioni volte per ridurre il prelievo di risorse appartenenti alla flora e alla fauna selvatiche e per aumentare lo stock di tali risorse
- Gestione, monitoraggio, controllo della flora e fauna selvatiche
- utilizzata per la stima della spesa in-diretta per la biodiversità

Schema di contabilizzazione internazionale

Biodiversità





- Creditor Reporting System (CRS) del Development Assistance Committee (DAC)
 - · Individuazione categorie di spesa / aiuto
- Rio Markers
 - Stima del targeting della spesa / aiuto rispetto alle Convenzioni di Rio (clima, biodiversità, desertificazione)
 - Direttiva OECD sulla compilazione CRS (annexe 7: uso dei Rio markers)

https://www.cbd.int/financial/doc/oecd-crs-reportingdirectives-en.pdf

 Guida italiana all'uso del CRS (compilazione formulario DAC dal quale sono estratte le statistiche)

http://www.cooperazioneallosviluppo.esteri.il/pdgcs/Documentazione/AltriDocumenti/GUIDA%20ALLA%20NOTIFICA%2

02014%20CON%20ALLEGATLp

Questo approccio è utilizzato per la distinzione e la sima delle spese dirette e non dirette





Le spese classificate *Rio Marker* 2 sono state considerate SPESA diretta e contabilizzate al 100%

Le spese classificate *Rio Marker* 1 sono state considerate Spesa in-diretta e contabilizzate al 40%