

# Enel Group Carbon Strategy

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*Giuseppe Deodati* D.ty Head of Carbon Strategy Unit Enel Trade S.p.A.

# Agenda

• Enel Group overview

- Enel commitment in the carbon market
- Open issues on carbon regulation



## **Enel** Group Overview



Enel operates in 23 countries as a global integrated energy player





Enel Group has a well balanced mix of electricity generation

## **Development of renewable energies**

## Leadership of Enel Green Power



# Enel's strategy to tackle climate change based on 5 pillars

## Innovation

**Research and innovation** investments on new low carbon technologies

## Research

**Energy efficiency with** smart grids

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Leadership in the global carbon markets of Kyoto Protocol flexible mechanisms



Best available technologies for thermal power generation

> **Renewable** Energy

Zero-emission sources, such as renewables and nuclear

## **Environment**



## **Agen**da

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# Enel ranking first among private CDM portfolios



• Enel's Group has a global presence in offset generating countries.



Enel's portfolio rank in the 1<sup>st</sup> position in the CERs market globally



# Enel has a leading position in the carbon market



0,43

Pipeline Registered Issued

13%

13%

Pipeline Registered Issued

1,85

)

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# The new Enel Carbon Strategy Unit Key priorities: compliance cost minimization and growth opportunities



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## Enel Carbon Strategy Unit well positioned on main business models of carbon industry

Business model	Description	Enel Group positioning
Compliance buyer	<ul> <li>Cover the compliance needs with a combination of EUAs and CERs, also developing CDM projects, minimizing the cost of compliance</li> </ul>	will include the major pillars of carbon business
Offset developer (mid-upstream)	<ul> <li>Develop CDM projects and sell/hedge ERPAs or CERs either to final buyers or to other market operators</li> </ul>	Street
Service provider	<ul> <li>Provide consulting/paperwork services to offset developers</li> </ul>	endesa
Financial player	<ul> <li>Provide structuring and risk intermediation services to other market players with liquidity or hedging needs</li> </ul>	

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## Key potentialities for market success from Enel Group's internal business

#### Description

One carbon strategy

 Convergence towards a consistent and unified Group compliance strategy for all compliance portfolios

Active portfolio management

 Improving the risk / return profile of compliance portfolio by continuous monitoring and undertaking of optimization actions with a view on market and regulatory outlook

Superior market view

 Leverage of market insight and regulatory presidium to develop a proprietary view of market trends

#### **Potentialities**

- A centralized model ensures major hedging possibilities and strategic opportunities
- Huge compliance portfolio with asset-back optimization potentialities
- Superior market view to strengthen value creation potential



## **Age**nda

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Open issues on carbon regulation



# Open issues on future carbon markets regulation that create high uncertainty

### Key elements of uncertainty

Kyoto protocol – other new schemes

- Expiring of Kyoto Protocol in 2012: uncertainty on the signing of global agreement post-2012 and/or emergence of bilateral agreements between countries
- Implementation of emission trading schemes or some other type of reduction targets in other geographies

#### Phase III in EU-ETS

- Raise of cap to 30% reduction target
- Oualitative/geographical limitations on eligible offsets types
   and technologies

## Offset markets

- Reform of CDM markets with streamlined approval process and additional technologies allowed
- Emergence of alternative schemes potentially reducing the role of private companies on CDMs

# Enel Group key recommendations on climate change

A global agreement with reasonable and achievable emission reduction pathways

Reasonable and achievable long-term targets including clear interim milestones

Progressive establishment of a global carbon market with stable regulatory framework

**Technology push** 

Continued direct involvement of the private sector

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## JI status and regulation

- Registration process: 15 projects approved as a result of the 1<sup>st</sup> tender. 2<sup>nd</sup> on going. A good signal for the market.
- Price floor @ 10 €/ERU. May prevent project owner from early securitization of selling price
- Track 1 vs Track 2: One of the approved projects submitted to the JI Supervisory Committee, transferring it from Track 1 to Track 2. A signal towards EU changing appetite?
- GIS: still uncertain. May create sustainable back up to AAU utilization.

#### ERUs Potential Volume up to 2012 (Mt)





# Russia and post-Kyoto: linking GHG targets with the country's energy strategy

Russia's energy challenges

> 40% increase in energy efficiency

- Modernization of thermal generation fleet
- > Reduction in associated petroleum gas
- > Increased penetration of renewable

HUGE CO2 ABATEMENT POTENTIAL

#### **UNFCCC** negotiations

- Full banking of surplus AAUs from Kyoto 1<sup>st</sup> CP? But AAU credibility is a problem to sort out
- 2nd commitment period only with involvement of advanced developing countries
- JI might disappear post-2012! But several solutions are under discussion

#### What could be done

- AAU surplus as back-up for JI/other offsets
- Cooperation with counterparts to ensure continuation of JI or its enhancement via new mechanisms
- Engage with EU on offset bilateral deals and qualitative restriction issues (Track issue)

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Post-Kyoto deal is an opportunity to attract investments for the country's energy strategy

## **Con**clusions

- Russia has a huge carbon reduction potential and it is setting very **ambitious long-term targets** to increase energy efficiency and promote renewable energies, but funding for these programmes is a critical issue
- **Carbon finance** can play a significant role in attracting foreign investments in these sectors
- Need for investors to have a safer regulatory context and certainty also in the registration process



## Giuseppe Deodati

D.ty Head of Carbon Strategy Unit Enel Trade S.p.A. giuseppe.deodati@enel.com

