

Our experience...

CEG-IST | 20th anniversary

8<sup>th</sup> October. 2015

### REN: electricity and natural gas transmission system operator

Redes Energéticas Nacionais, SGPS, S.A.		
Electricity	Gas (Concession until 2046)	Other
REN Eléctrica (Concession until 2057)	REN Gasodutos	REN Telecom
<ul> <li>Owning and operating the sole Electricity Transmission Grid in mainland Portugal ("RNT"):</li> <li>Global Technical management of the National Electricity System ("SEN")</li> </ul>	<ul> <li>Owning and operating the sole Gas Transmission Grid in Portugal ("RNTGN"):</li> <li>Global Technical management of the National Natural Gas system ("SNGN")</li> </ul>	<ul> <li>Marketing surplus telecom capacity of REN's electricity and natural gas network</li> </ul>
Enondas (Concession until 2055)	REN Armazenagem	
<ul> <li>Operation of a pilot zone (generation of electric energy from ocean waves)</li> </ul>	Underground storage of natural gas	
	REN Atlântico	
	<ul> <li>Reception, storage and re-gasification of LNG in Sines (sole LNG Terminal in Portugal)</li> </ul>	
CORE BUSINESS AREAS		COMPLEMENTARY BUSINESS AREAS

Source: REN



#### Strategic Environmental Assessment...a new challenge

✓ Learning by doing approach

✓ Mutual understanding of the technical, environmental and management expectations, concepts and methodologies

✓ Building bridges between all these different perspectives

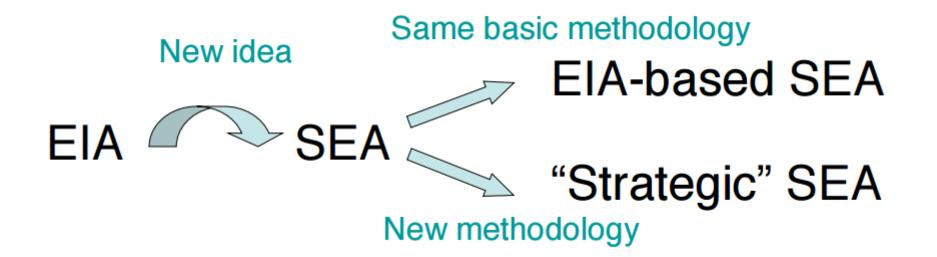


## Looking to things by a different point of view...



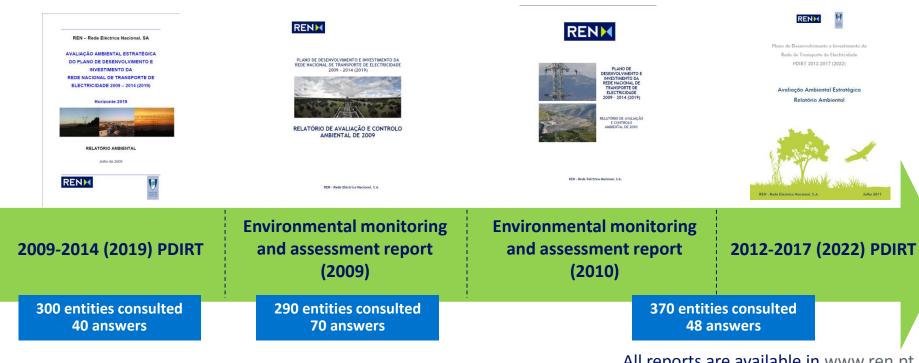


#### Back to the basics...





#### Electricity Investment Plan (PDIRT's) SEA



All reports are available in www.ren.pt

REN produces and publishes, every three years, the grid development plan (PDIRT in Portuguese).

The SEA of PDIRT 2009-2014 (2019) carried out for the first time and integrated with the grid planning process



#### 2nd Level...





#### Natural Gas Investment Plan (PDIRT's) SEA

REN - Gasodutos, SA

Plano de Desenvolvimento e Investimento da RNTIAT (2014 - 2023)



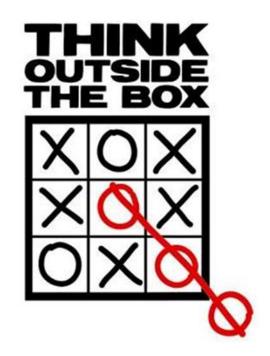






#### Infrastructure development with the least impact

- SEA based on critical factors (energy, fauna and land use planning).
- Different strategies for expansion of the national transmission grid had been identified.
- The final strategy selected results, integrating environmental and sustainability, and is the outcome of the assessment of risks and opportunities in each CDF.
- Guidelines designed for the specific assessment scale to enable conditions for EIA and spatial planning.





#### Major achievements...

- 1 SEA influenced the principles and the concept of grid planning helping to:
  - Increase transparency and commitment in decision making
  - Facilitator of the dialogue between:
    - REN SEA and planning teams;
    - Private and public authorities;
    - REN and the land use planning and/or environmental authorities;
    - REN, **NGO's** and **public**.









#### Major achievements...

- 2 Management concepts integration on sustainability tool
  - Strategic thinking
  - Governance Framework
  - Key monitoring indicators
  - Feedback for new processes
- A more balanced and sustainable set of decisions on the development of the transmission grid was achieved, taking into account not only possible goals but also the macro impacts from the expansion of our assets.











# Thank you.

Francisco Parada

francisco.parada@ren.pt

