

ROYAUME DU MAROC



Ministère délégué
auprès du Ministère de l'Énergie,
des Mines, de l'Eau et de l'Environnement,
chargé de l'Environnement

Morocco's INDC – The role of economic analyses



Agenda

1. Morocco's vision for its INDC
2. Costing mitigation actions
3. Formulating the INDC
4. Concluding remarks



1. Morocco's vision for its INDC

- Morocco very engaged internationally
 - Member of the PMR, CCAC, and GGGI
 - Host of COP-22

- Morocco is already very active on mitigation
 - Energy efficiency target to reduce consumption by 35% by 2030
 - 42% of renewable energy in the energy mix by 2020



1. Morocco's vision for its INDC

Need (B USD)

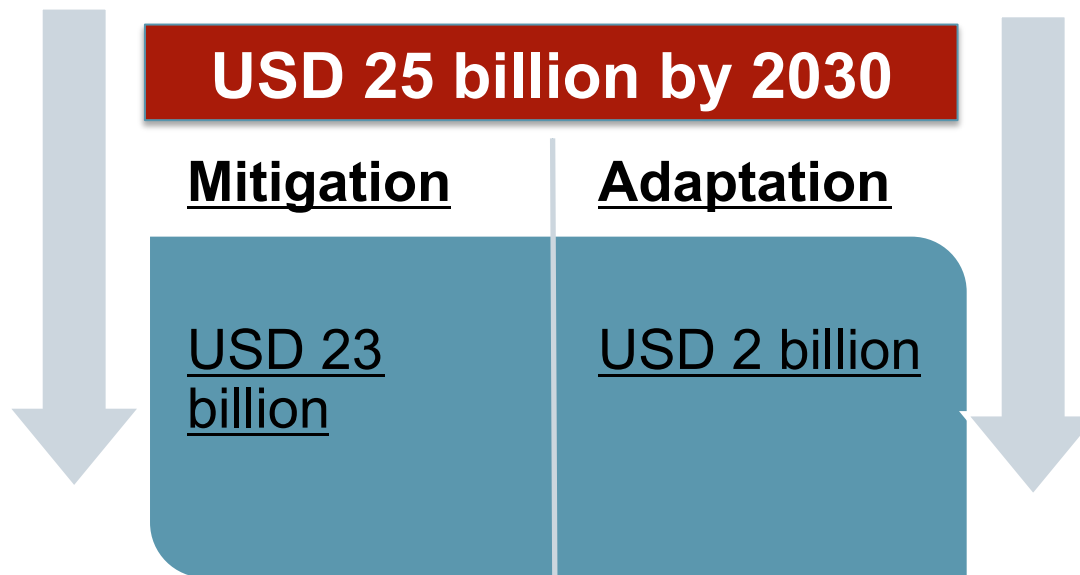
<i>SOLAR POWER (2000 MW)</i>	9
<i>WIND POWER (2000 MW)</i>	3,5
<i>HYDRO POWER (500 MW)</i>	1,2
<i>TOTAL</i>	13,7





1. Morocco's vision for its INDC

- Green Investment Plan published in 2014





1. Morocco's vision for its INDC

Water stress and desertification



54 % of the population

80% of industry

50% of tourism

Agriculture:

- *19 % of GDP*



- *Employs 43 % of the population*

- *81 % rainfed*



1. Morocco's vision for its INDC

- INDC anchored in National Sustainable Development Strategy and National Climate Policy
- Morocco envisages 3 components for its INDC:
 1. Mitigation contribution
 2. Adaptation undertakings
 3. Contribution to fight climate change (e.g. south-south cooperation)
- INDC to include an economy-wide GHG target



1. Morocco's vision for its INDC

- Strong basis for the INDC
 - Green Investment Plan
 - 3rd National Communication
 - Technology Needs Assessment (2012)
 - LEDS in development
 - Several NAMAs at design stage



2. Costing mitigation actions

- Costing exercise done in 3rd National Communication (TCN)
- For the TNC (to be published in 2015):
 - Definition of baseline scenario 2010-2040
 - Mitigation scenario with 50 mitigation actions largely from sectoral strategies
 - GHG and cost/benefit assessment of actions
 - Several consultations to validate input and assumptions were undertaken over 2014



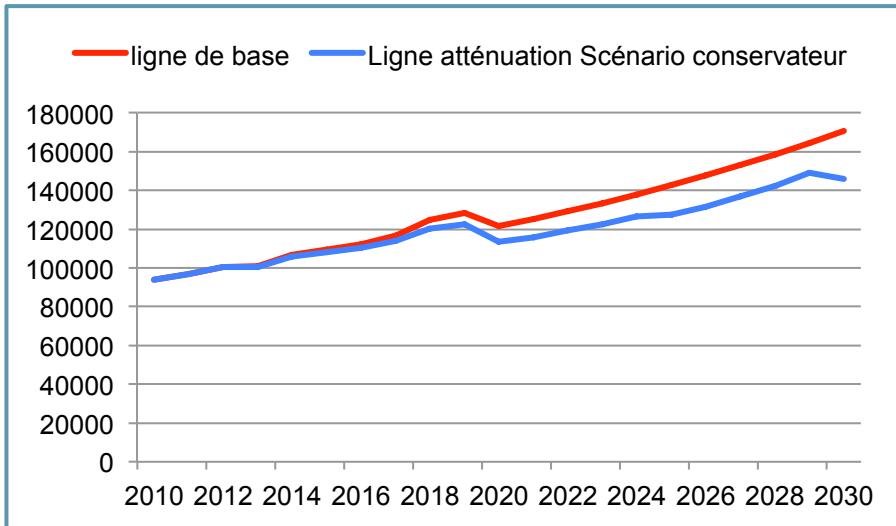
3. Formulating an INDC – From TNC to INDC

TNC	INDC
Tool to communicate emission trends, policies and actions	Tool to communicate <u>intentions</u>
Technical review and compilation process (limited political ownership) with expert validation	Political validation and commitment

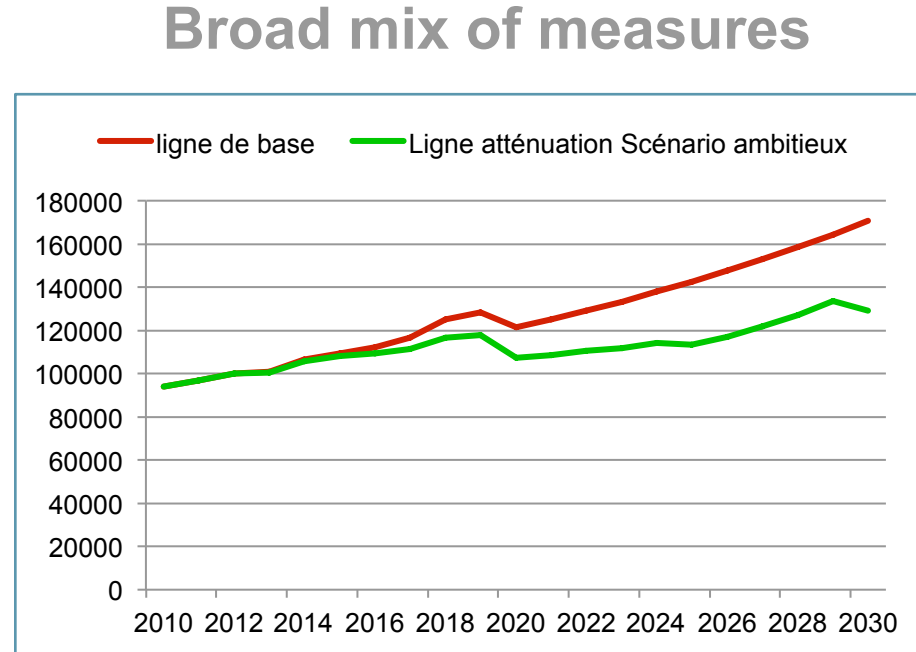


3. From TCN to the INDC

1. Develop scenarios by selecting actions from 50 mitigation actions



Priority actions in Energy and Waste





3. From TNC to INDC

2. Refine economic analyses and projections

- Testing different assumptions used in LEAP
- Conducting a optimization exercise would be complementary
- Conducting macro-economic modelling to better understand intersectoral interactions, notably of some fiscal policies



3. What contribution from the national budget?

- CPEIR – Review of public CC expenditures
 - 2005-2010: Yearly average expenditure of 185 M\$ on mitigation (0,6% of GDP)
- Int'al climate finance flows
 - 2007-2014: Yearly average ~ 350 M\$ (95% loans) for mitigation
- Investment needs for mitigation scenarios
 - ~1.2 to 2.6 MM\$ yearly



3. Lessons-learned

- Mobilise government experts and build capacity
 - Explain to government experts the data needs and why they are needed
 - Validation and ownership of results
- Use expert validation to build confidence and ownership from decision-makers
- Plan ahead and give yourself time – more than 1 year



5. Concluding remarks

- Economic analyses are useful to inform level of ambition
 - Transparency is key - Validation and ownership of mitigation scenarios and cost/benefit assessment completed with technical expert
- At the same time ambition is ultimately a political decision
 - On-going consultations with decision-makers and ministers to set level of ambition
 - National conference presided by Head of Government on June 2nd

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Thank you for your attention



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Mandaté par :



Ministère fédéral
de l'Environnement, de la Protection de la Nature,
de la Construction et de la Sécurité nucléaire

de la République fédérale d'Allemagne