# Effective Green Financing: What have we learned so far?

"Scaling Up Financing to Expand the Renewables Portfolio" Workshop hosted by the IEA Renewable Energy Working Party

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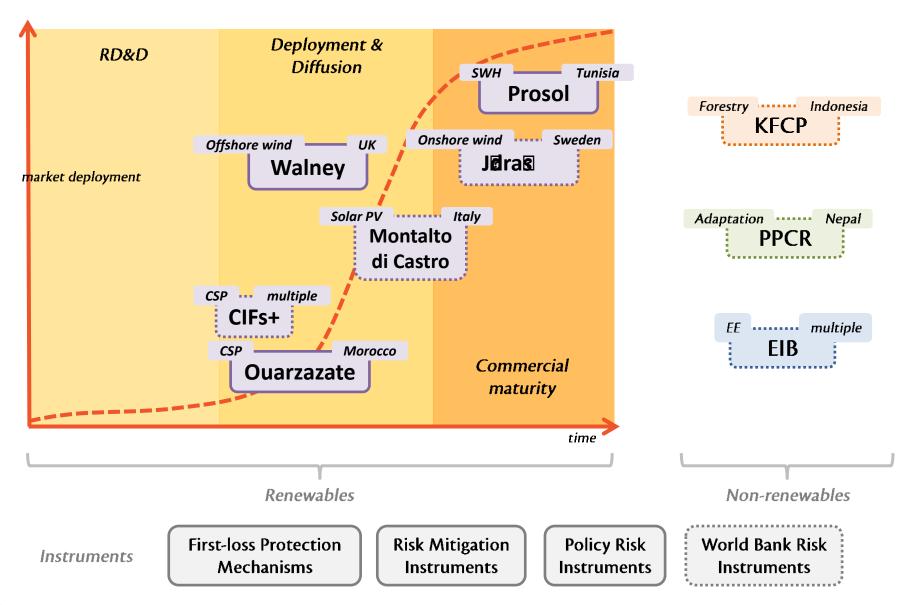


# San Giorgio Group

The San Giorgio Group assembles financial intermediaries and institutions actively engaged in green, low-emissions finance

- Core framing inquires
  - What is the role and reasons for public finance?
  - What are the best delivery mechanisms for public monies?
  - How can international and national public investment flows be aligned with each other and with private investments?
  - How do we ensure learning?
- Systematic analysis of case studies and tracking of existing green investments to understand effective investment to scale up

## SGG case studies overview



Offshore-wind and CSP case studies

#### Ouarzazate I Morocco

#### Goal

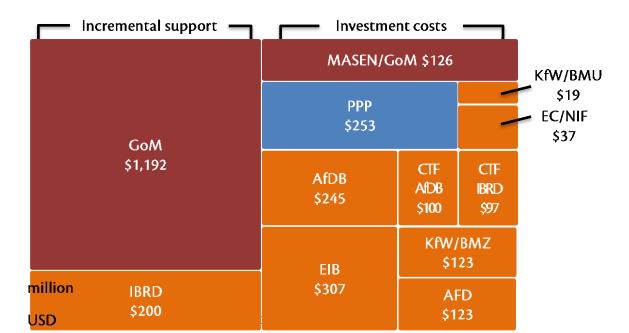
 To develop a large scale Concentrated Solar Power plant that can pave the way for a portfolio of CSP in Morocco and the region

## Challenges

- Early development stage tech
- High capital cost
- Multiple partners

- → viability gap
- → lack of commercial finance
- → cooperation & coordination

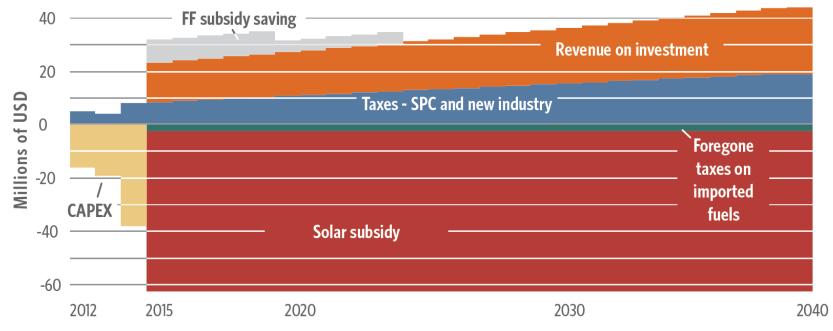
#### Instruments



## Ouarzazate I results

- Strong coordination and private sector involvement
  - Generation costs reduced by 25%
    - Lower than expected bids

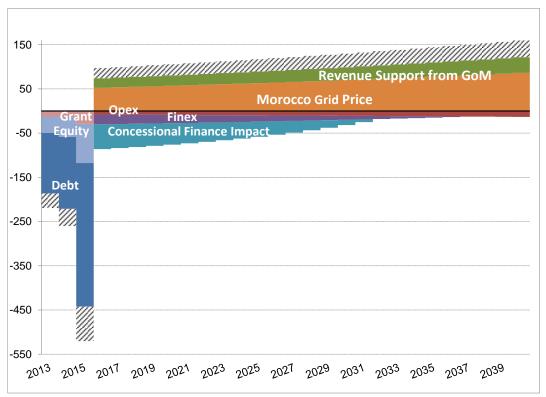
#### Government of Morocco Ouarzazate I cash flows



## Ouarzazate I results - revised

- Sept 2012: winning bidder ACWA Power International 21% lower than the second best offer, 25% lower than initial forescasts
  - Implications: lower capital costs, lower concessional financing, lower incremental support from the GoM

#### Government of Morocco Ouarzazate I cash flows



# Walney Offshore Windfarms

#### Goal

 To attract financial investors to take minority stakes in the World's largest offshore windfarms (GBP 1.3 bn)

## Challenges

- Cost of offshore wind
- Risk of offshore wind
- Difficulties in financing

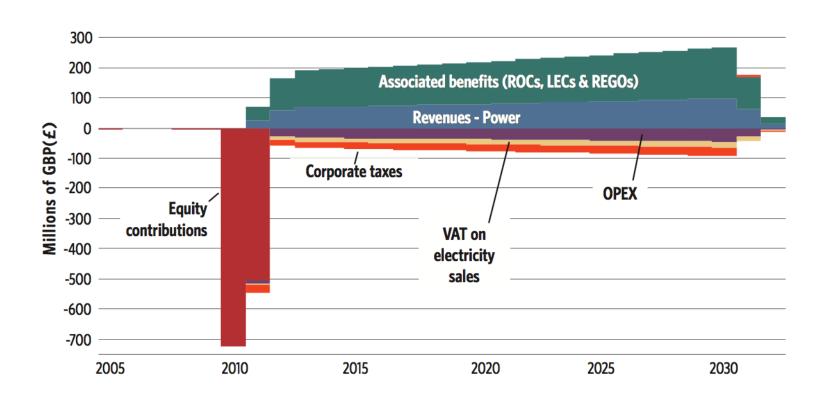
- → Technology and project-specific
- → Construction & operations
- → Utilities / project finance

#### Instruments



# Walney's results

- 8-10% expected IRR + additional sources of return
  - GBP 1.3-1.5 bn. worth of incentives
    - Tax collection + 8.3 MtCO2 avoided



# Early lessons

# Early lessons for effective green finance

- Well articulated public policies are necessary to transition toward low carbon systems of production and can be delivered through multiple instruments.
- Well designed resource injections can alter investment risks and change private behaviors at acceptable cost.
- The need for public resources to leverage private sector funds is one factor, but effectiveness needs to be considered across all dimensions
- Green investment should focus on emerging economies, where energy demand is growing and opportunities exist to install green infrastructure

# The risk gap

Risk, whether real or perceived, is the single most important factor impeding investment in renewable energy projects

- Gaps in risk coverage in developing and developed markets, particularly for policy risk and financing risks
- New risk mitigation instruments are needed. They need to:
  - address investor specific needs
  - improve underlying creditworthiness
  - improve certainty around timing, costs and enforceability
  - have sufficient scope to have transformative impact
- Development financing institutions and the public sector have significant opportunities to fill these gaps



# ...helping nations spend their money wisely



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# Further Reading

- Information about the San Giorgio Group may be found at: <a href="http://climatepolicyinitiative.org/venice/san-giorgio-group/">http://climatepolicyinitiative.org/venice/san-giorgio-group/</a>
- SGG case studies may be found at:
   <a href="http://climatepolicyinitiative.org/publication/san-giorgio-group-case-studies/">http://climatepolicyinitiative.org/publication/san-giorgio-group-case-studies/</a>
- The *Risk Gaps* publications may be found at <a href="http://climatepolicyinitiative.org/publication/risk-gaps/">http://climatepolicyinitiative.org/publication/risk-gaps/</a>
- The Effective Green Financing: What have we learned so far?
   publication may be found at
   <a href="http://climatepolicyinitiative.org/sgg/files/2012/12/Effective-Green-Financing-What-have-we-learned-so-far.pdf">http://climatepolicyinitiative.org/sgg/files/2012/12/Effective-Green-Financing-What-have-we-learned-so-far.pdf</a>