

# Weighted Average Cost of Capital – a Game Changer (?)

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# Agenda

Introduction

Research results from RE Frame project

**Conclusion** 



#### Introduction

#### Methodology



- Estimations of costs of capital of wind onshore-investments from DIA Core Project
- Comprehensive interview series with financial experts
- Evaluation of development of parameters

### **Analysis**

- Comparison with interest rates for loans from other sectors in EURO zone
- Description of trends

#### Results

- Aggregation and visualization of meta data
- Presentation of results and feedback from national experts
- Preparation of deliverables: project presentation & database

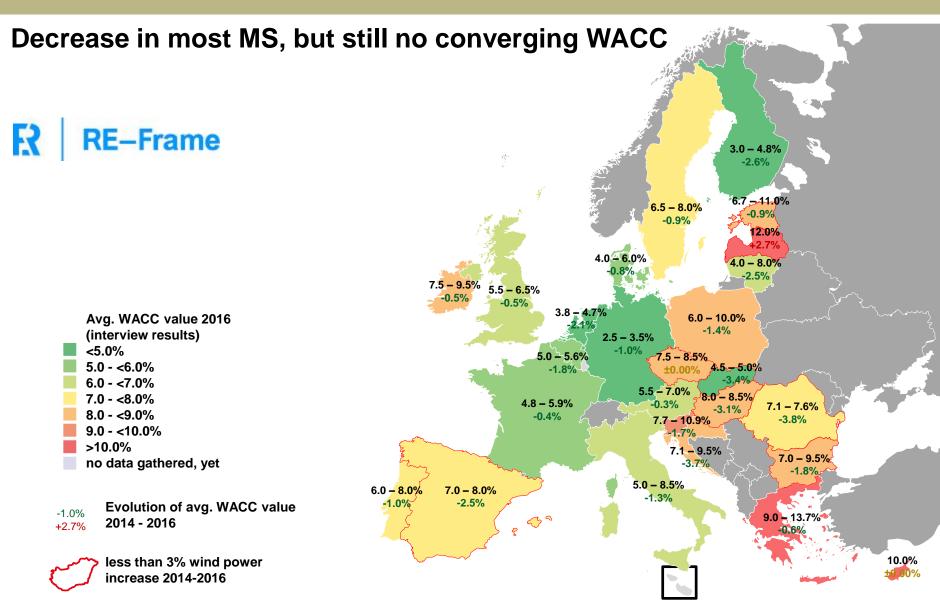
### Introduction

#### Before we start: some caveats

- There are several methods for wind project financing: corporate financing or project financing
- Ongoing changing interest rates
- Constant changes of RES market conditions
- Lack of current, significant projects in some EU markets, made sometimes model estimations necessary
- Different level of transparency of market actors



# **WACC** Development

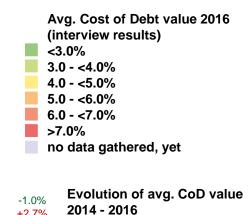




# **Cost of Debt Development**

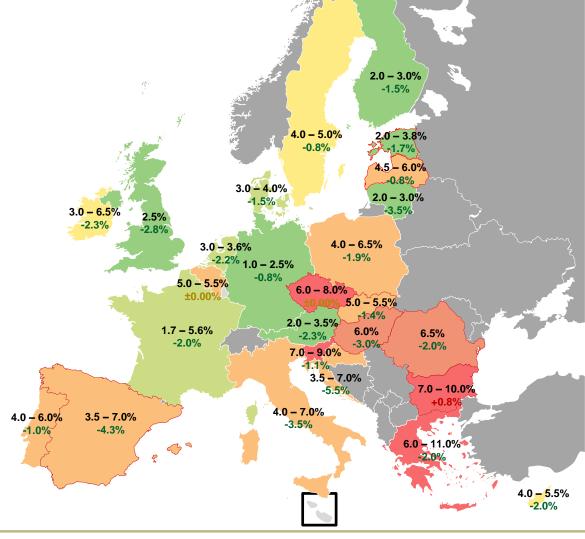
Plunging interest rates – but unclear consequences for market actors





less than 3% wind power

increase 2014-2016

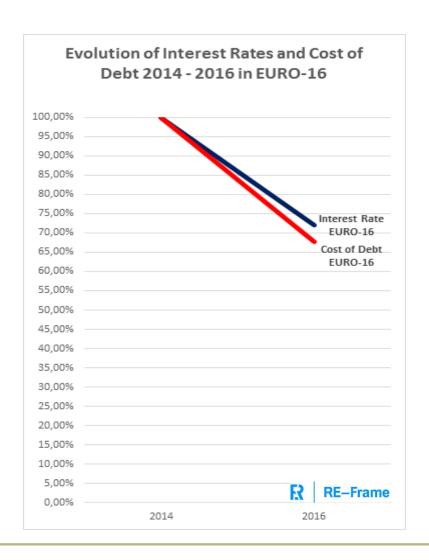




+2.7%

# Comparison of Cost of Debt & interest rate development

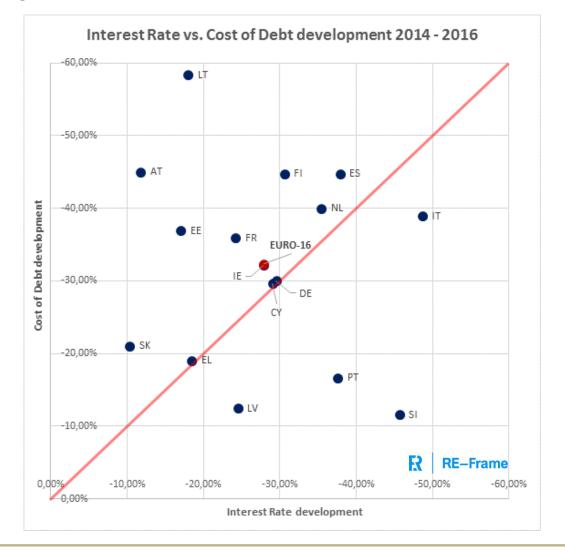
#### Trend indicates correlation between cost of debt & interest rates...





# Comparison of Cost of Debt & interest rate development

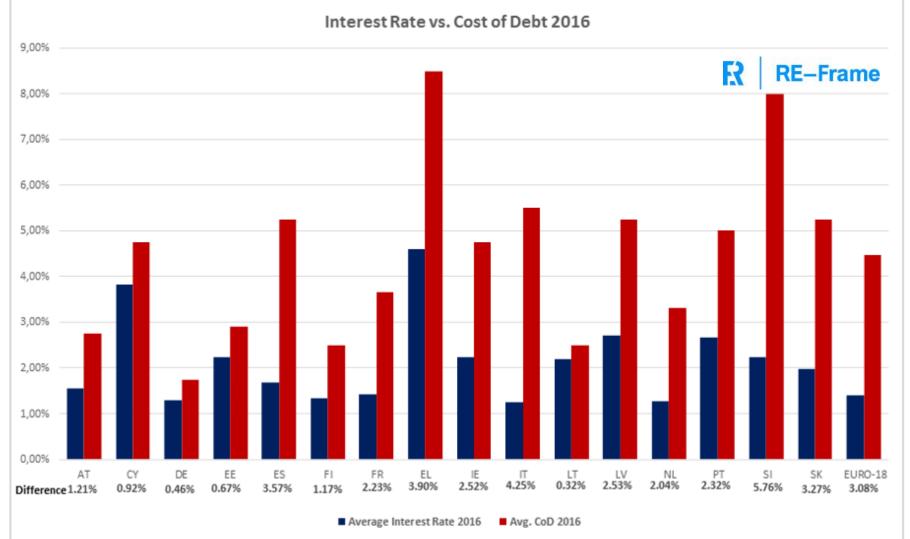
### ...but the development at EU Member State level is extremely diverse





# Comparison of Cost of Debt & interest rate development

#### Differences in comparison to absolute interest rates - and their potential

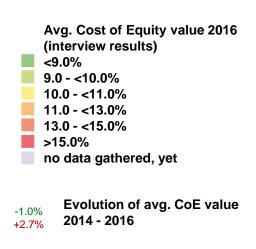




# Cost of Equity Development

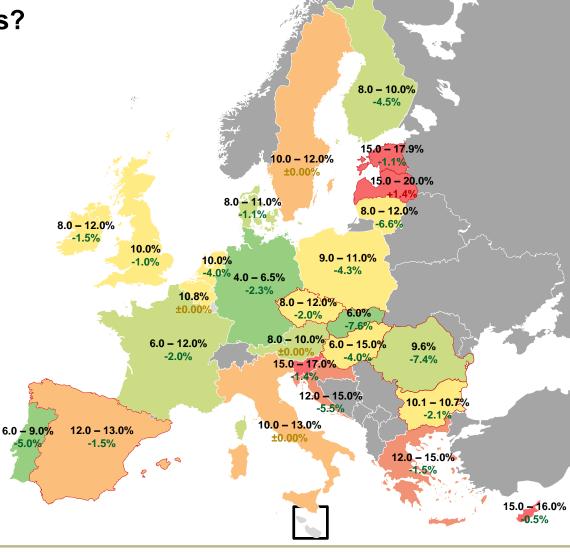
Decrease in almost all Member States – change of business models?





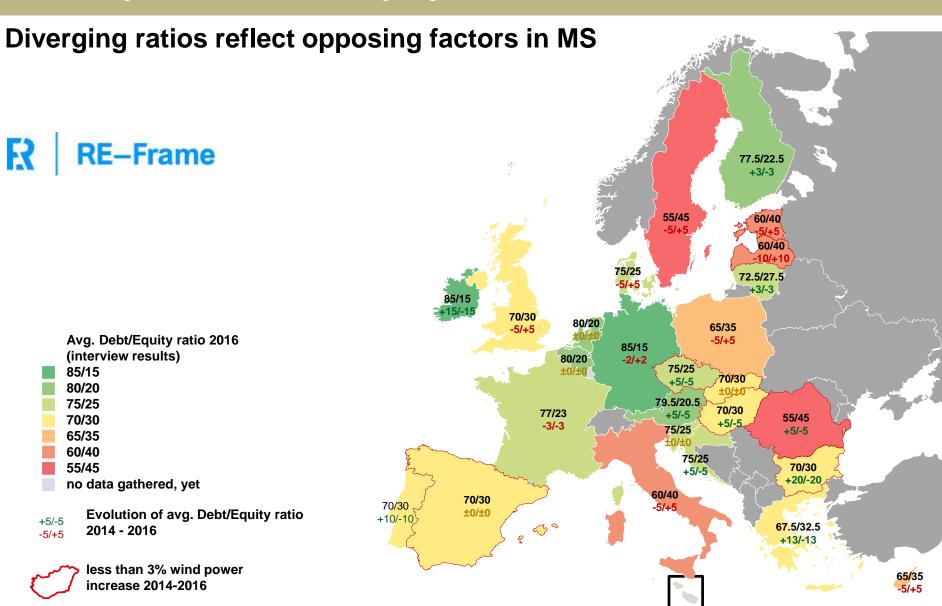
less than 3% wind power

increase 2014-2016





### Development of debt/ equity ratio





### Conclusions

- The Good: Decreasing trend for WACC for wind onshore in Europe
  - Trend more positive than in other sectors
- The Bad: Still no converging markets
  - Discrepancy in all WACC components
  - No wind-onshore deployment in some markets despite decreased WACC
  - Increasing risks for at least some market actors
- The Ugly: Relationship between macroeconomic development, policies & WACC development still not entirely clear
  - Predictions of future developments are pretty limited
- The Pretty: Huge numbers of approaches to analyze and mitigate this challenge
  - The window of opportunity is open now.





ideas into energy.

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