

Business models and challenges for continued operation in France

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Income statement model for wind farms after year 15





Revenues : market products after the end of feed-in tariff

> 1 year	Corporate PPA	Fixed price = a * P + b
		 Fixed price = Power revenue after fixing in EUR/MWh a = Energy source-specific profile factor P = Power price at EEX power exchange at the time of fixing (annual baseload price for the respective delivery year) in EUR/MWh b = Park-specific adjustment value and revenues for : (i) Guarantees of Origin
1 year	Calendar EEX Futures	
3 months	Quarter EEX Futures	
1 month	Month EEX Futures	
1 day	• Epex Spot	 (ii) Capacity Guarantees, (iii) premium in case of PPA in EUR/MWh



Prices exchanged on the EEX Calendar 2021 in 2020



EEX Baseload – 5€/MWh < Fixed price < EEX Baseload + 2€/MWh



OPEX distribution for onshore wind energy



Source : Energy costs and profitability of renewable energies in metropolitan France, CRE, 2014

Source : French wind sector analysis Situation, Prospective, Strategy, ADEME, 2017



OPEX evaluation for years 15 to 20



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OPEX Vs. market prices





Maintenance cost distribution after year 15

After year 15, more than 50% of OPEX costs are dedicated to maintenance operations in full scope scenario





Decision parameters for continued operation



9





Thank you for your attention

