



Statkraft

**CONFIDENTIAL**

# Statkraft Ireland

Kevin O'Donovan

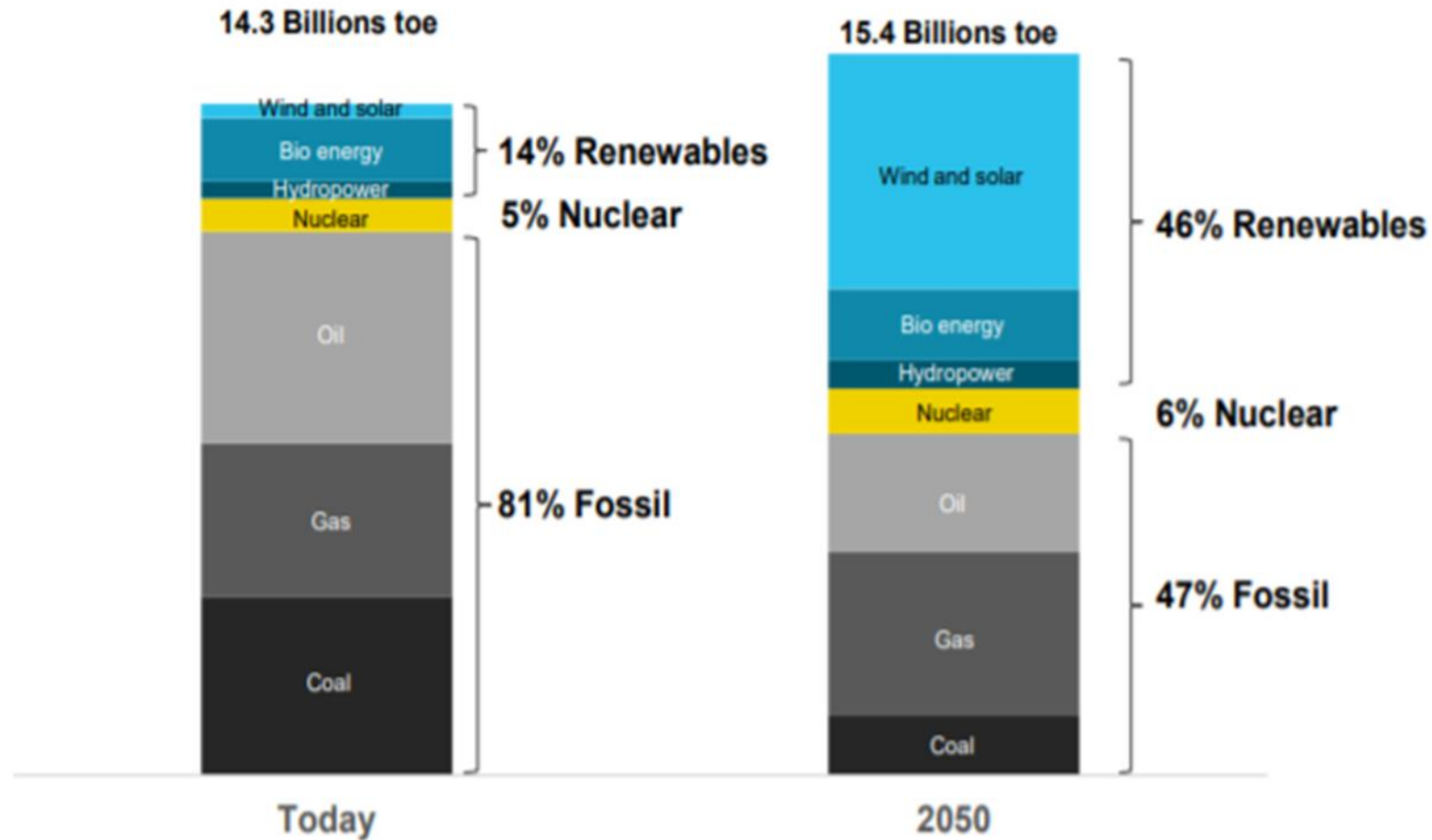
15<sup>th</sup> May 2020

---

# The end of business-as-usual



# The global energy balance will change fundamentally



# What does this mean for Ireland?



**Table 1 Key scenario assumptions All-Island**

	2020	Fossil Fuel 2030	Renewable Energy 2030
% RES-E	41%	37%	70%
% RES	13%	15% <sup>2</sup>	25% <sup>3</sup>
Total Electricity Demand (TWh)	40	46	49
Wind Power (MW)	5,400 <sup>4</sup>	5,400	10,190
Solar Power (MW)	320	320	2,900
Interconnection (MW) – All Island	580	580	2,030
SNSP Limit – All Island	75%	75%	90%
Min Gen (MW) – All Island	1,000	1,000	700
Electric Vehicles (nr)	0	0	629,398
Heat Pumps (nr)	0	0	396,302
Small Scale Battery Storage (MW)	0	0	500
Large Scale Battery Storage (MW)	0	0	1,200



# Statkraft at a glance

Own capacity

**19 700 MW**

61 TWh → 93% renewable

Third party capacity

**28 000 MW**

100 % renewable

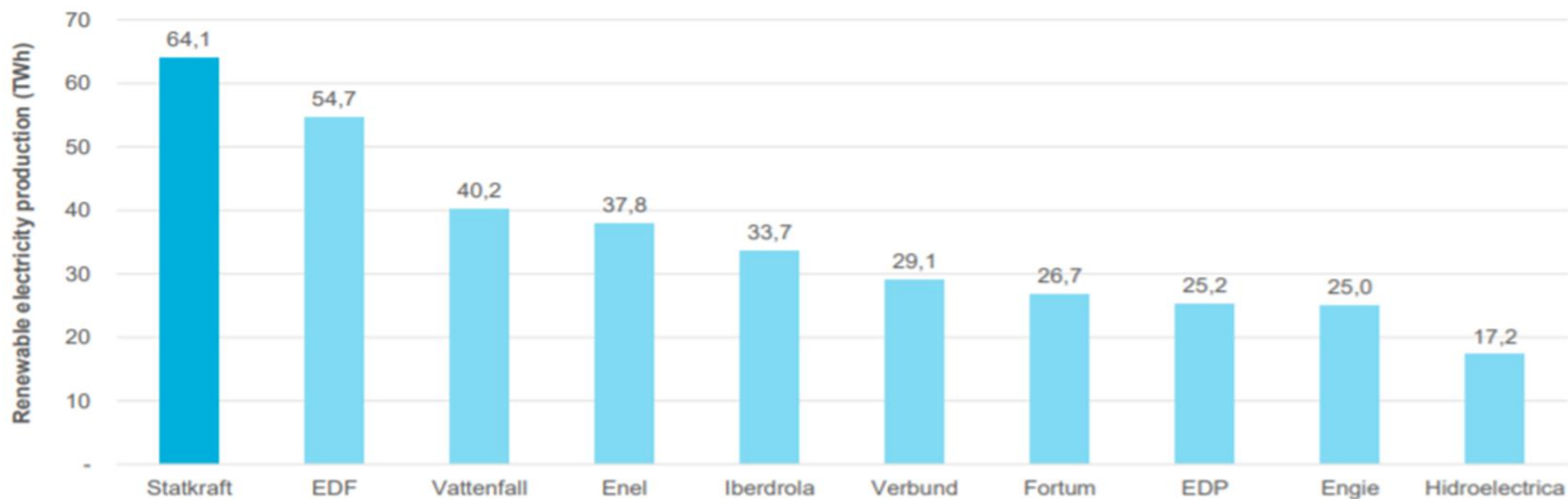
Employees

**4 000**



# Europe's largest producer of renewable energy

Top 10 renewable power producers in Europe 2018



5

Source: PWC



# Statkraft's Strategy

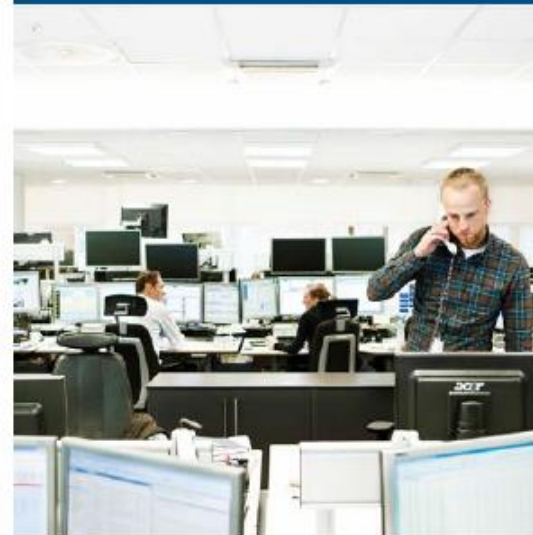
**OPTIMISE AND EXPAND  
HYDROPOWER PORTFOLIO**



**RAMP UP AS WIND AND  
SOLAR DEVELOPER**



**GROW THE CUSTOMER  
BUSINESS**

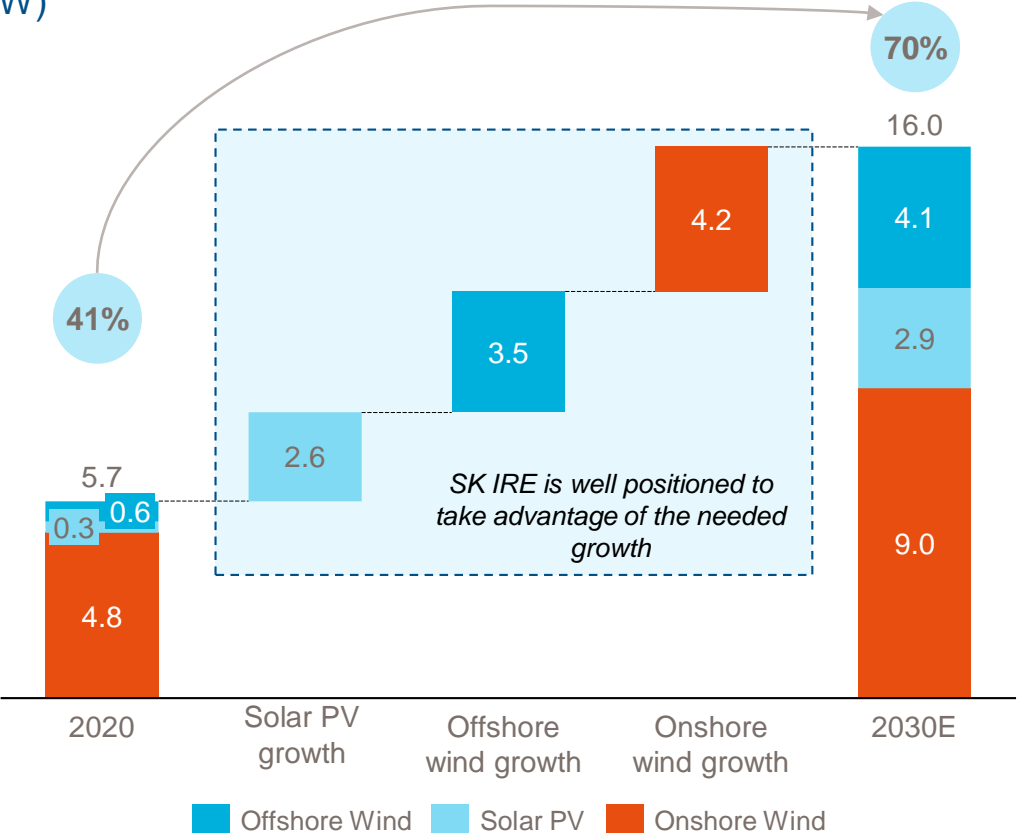


**DEVELOP NEW BUSINESS  
INITIATIVES**



# Ireland is one of the most attractive RE markets in Europe

Growth in Onshore/Offshore wind and Solar PV to reach the 70% RE target in 2030 (GW)



To be able to hit the growth targets the Irish Government has introduced favourable government backed CfDs

## What is Renewable Energy Support Scheme

- RESS has been designed in order to achieve Ireland’s energy goals in a cost effective manner
- Competitive auction based support scheme held at frequent intervals, with RESS-1 in Q2 2020 and RESS-2 in 2021
- Floating Feed in Premium, effectively guaranteeing each generator the auction price
- In principle technology neutral auctions, with limited capacity ring-fenced for some categories (e.g. Solar PV volumes 10% and community projects)



# Statkraft Ireland is a leading player in Ireland across several technologies

## Highlights



Statkraft Ireland develops, owns and operates renewable power plants, and is also involved in power trading

#1

Statkraft has the potential to play a leading role in Ireland's transition to a low-carbon future

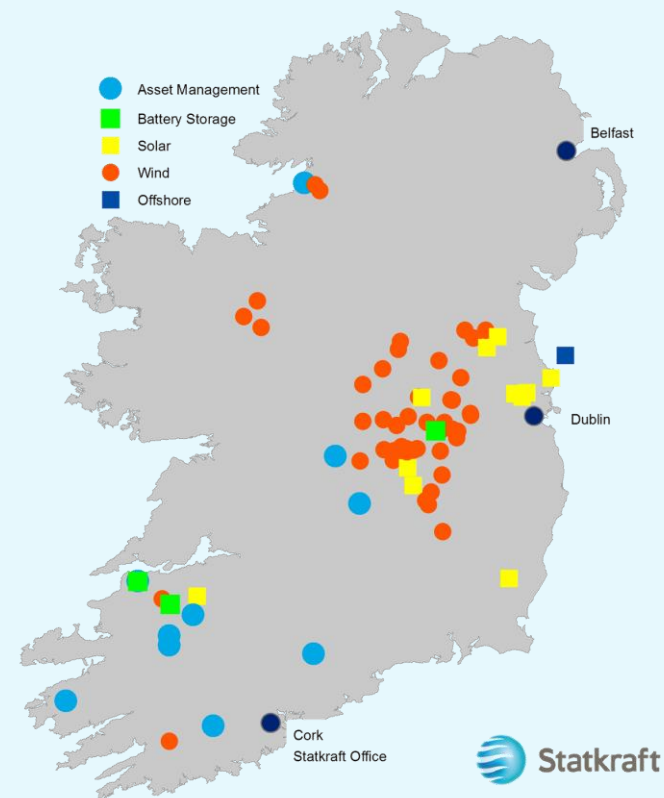


Ireland is one of the growth markets for Statkraft's wind & solar power development >2,000MW development portfolio, and high importance with upcoming attractive government backed CfD auctions



Ireland can be a market that Statkraft can develop cutting edge expertise in the deployment of high levels of intermittent renewables which can then make it a market leader in other markets

## Map of Statkraft Ireland assets



# What's happened so far:

Completed construction of first hybrid wind farm and battery project in Ireland (34MW)



Commenced construction on a second 26MW battery project



Established a 350MW solar portfolio



Expanded the onshore wind portfolio to 1,250MW (150MW fully permitted)



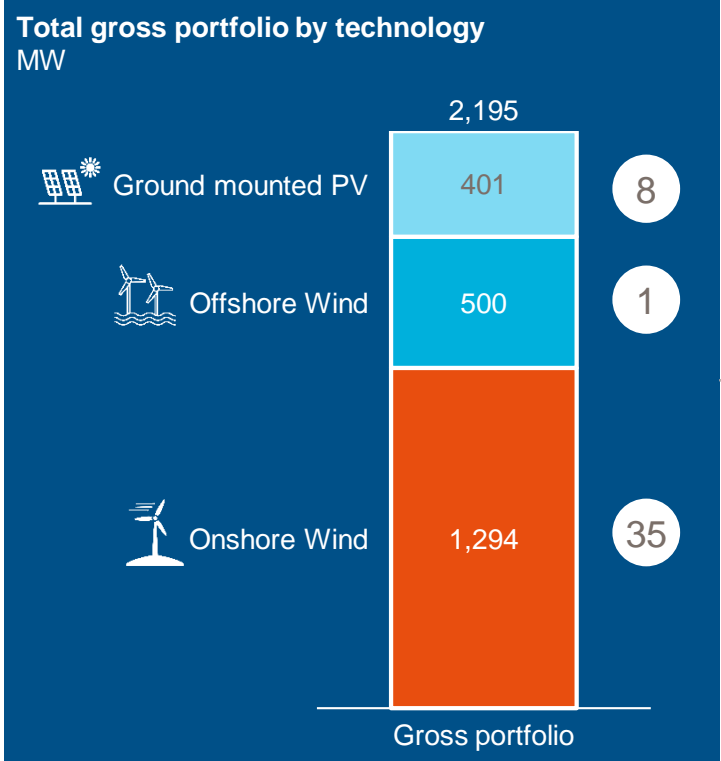
Secured grid capacity & legacy status for 500MW North Irish Sea Array (NISA) offshore wind farm



CONFIDENTIAL

# WHATS NEXT?

# Statkraft Ireland has a gross renewable portfolio of ~2.3GW





# Battery Storage, Grid Services & Asset Management

Ireland will need significant development of battery storage and other grid stability projects to be able to operate a stable electricity system

- Current DS3 programme of €250m was designed to support the development of 40% renewables on the electricity system by 2020
- Updated programme likely to be in the order of €750m per annum for increased amount of grid services to reach the 70% of renewables by 2030 target



Statkraft will develop battery and other grid support services to allow for higher level of renewables on Irish grid

Statkraft already manages the operation of 500MW of operational wind farms and battery projects in Ireland

# Providing electric car charging to a growing market



**Decarbonising transport with renewable energy**

In 2040, four out of five new cars will be **fully electric\***

**Statkraft's ambition:**  
One of two largest fast-charging providers in Norway and a leading position in selected international markets

# Extensive market insight creates value for customers



Managing third parties' renewable production:  
**28 000 MW**

Energy markets are getting more complex, and customers are taking stronger interest in renewable energy

Serving needs across the **whole value chain**; from market access and hedging to green power supply

With deep **market expertise** and **renewable assets**, Statkraft can **handle risk** and offer **tailor-made solutions** for power producers and consumers





CONFIDENTIAL