

TECHNOLOGY TO SHAPE THE FUTURE OF ENERGY

Statoil's technology strategy

PhDs

800 in Statoil

287 in R&T

INNOVATION

CROSS-DISCIPLINE SOLUTIONS

DIGITALISATION

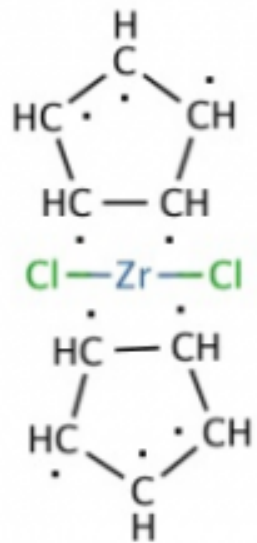
OPTIMISE PRODUCTION
FROM EXISTING AND
NEAR FIELD RESOURCES

LOW CARBON
SOLUTIONS FOR
OIL & GAS

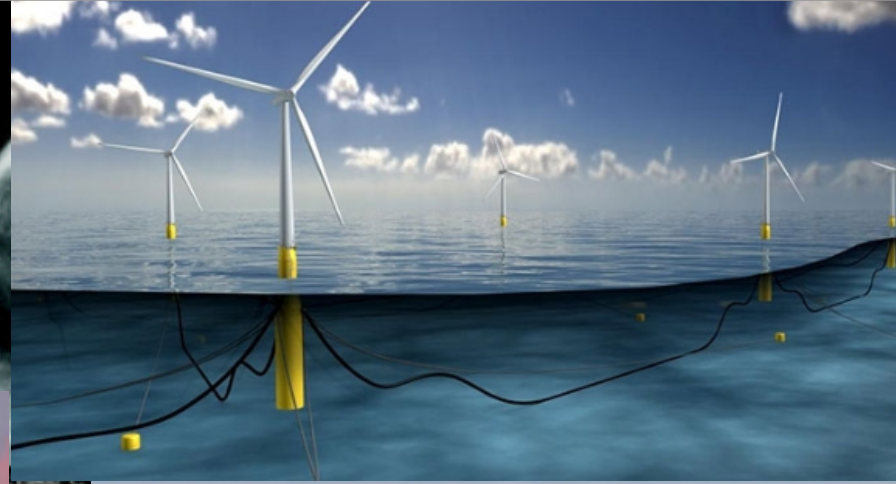
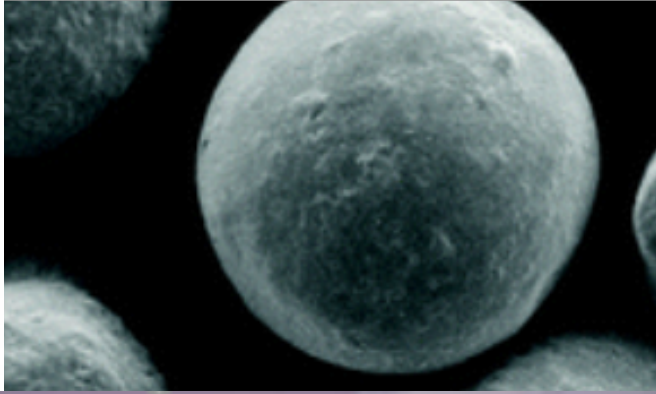
DISCOVER AND
DEVELOP FRONTIER AND
DEEP WATER AREAS

UNLOCK LOW
RECOVERY
RESERVOIRS

DEVELOP
RENEWABLE ENERGY
OPPORTUNITIES



A JOURNEY FROM NANO TO MEGASCALE- FROM MOLECULES TO ELECTRONES



THE VALUE OF A PhD BEYOND THE THESIS



LEAD YOURSELF &
ASK FOR HELP

A chalkboard filled with mathematical derivations for the derivative of x^n using the limit definition. The derivations include:
$$\frac{y_1 - y_0}{x_1 - x_0} = \frac{g(x+h) - g(x)}{(x+h) - x} = \frac{g(x+h) - g(x)}{h}$$
$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$
$$f(x) = \lim_{h \rightarrow 0} \frac{(x+h)^2 - x^2}{h}$$
$$= \lim_{h \rightarrow 0} \frac{x^2 + 2xh + h^2 - x^2}{h}$$
$$= \lim_{h \rightarrow 0} \frac{2xh + h^2}{h}$$
$$= \lim_{h \rightarrow 0} (2x + h)$$
$$= 2x$$
$$f'(x) = \lim_{\Delta x \rightarrow 0} \frac{f(x + \Delta x) - f(x)}{\Delta x}$$
$$f(a) = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$$
$$f(a) = \lim_{h \rightarrow 0} \frac{f(a) - f(a)}{h}$$

SOLVE COMPLEX
PROBLEMS



OVERCOME HURDLES

Statoil. The Power of Possible

The value of a PhD beyond the thesis

Hanne Wigum
Manager R&D Renewable Technology

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