DOCKETED	
Docket Number:	19-IEPR-07
Project Title:	Electricity Sector
TN #:	230030
Document Title:	Industrialized Offshore Wind Foundations, The Tetra Concept
Description:	Presentation with information relevant to offshore wind costs from a conference at which Commissioners spoke.
Filer:	John Hingtgen
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	10/8/2019 2:15:00 PM
Docketed Date:	10/8/2019

Industrialized Offshore Wind Foundations The Tetra Concept

Henrik Stiesdal, 02.10.19

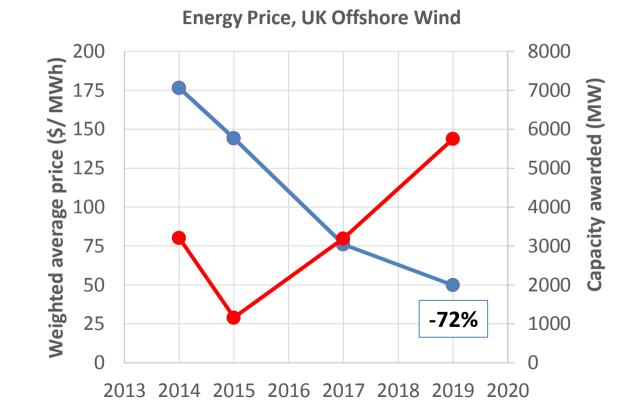
Offshore wind power is developing tremendously

Cost development

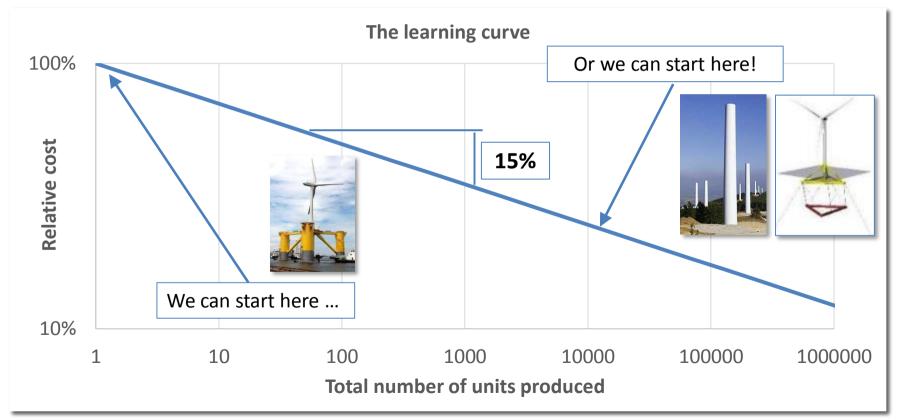
 Offshore wind power has developed from a costly alternative to a competitive source of electricity

The reasons:

- Competition
- Industrialization
- Low cost of capital
- Low steel prices



The fundamental choice regarding the supply chain

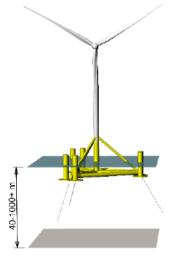


The Tetra product range



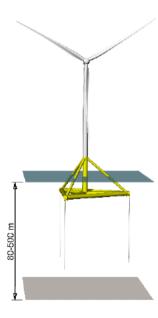
TetraBase® bottom-fixed foundation

Bottom-fixed foundation with crane-free offshore installation. Suited for 10-60 m depth.



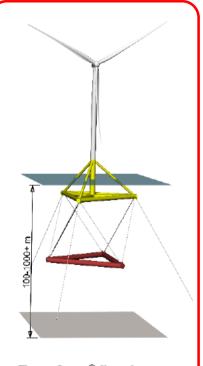
TetraSub® floating foundation

Floating foundation in semisubmersible configuration. Suited for 40-1000+ m depth.



TetraTLP® floating foundation

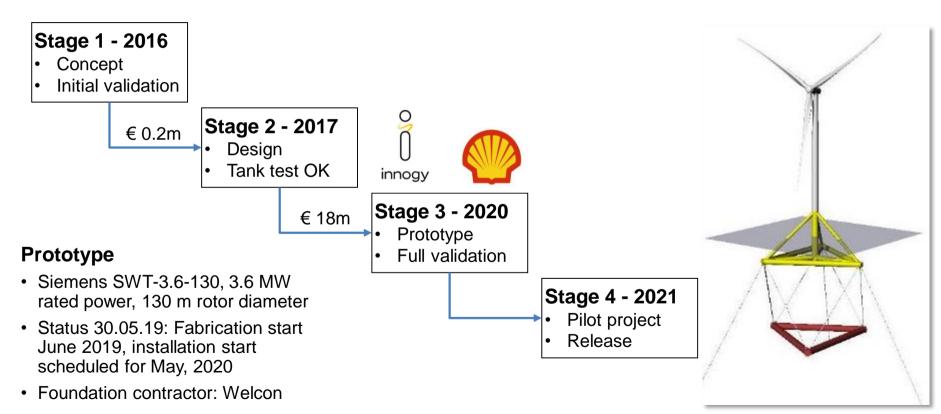
Floating foundation in tension-leg configuration. Suited for 80-500 m depth



TetraSpar® floating foundation

Floating foundation in spar-buoy configuration. Suited for 100-1000+ m depth.

The TetraSpar Demonstrator



© Stiesdal A/S 2019, All Rights Reserved

Assembly and installation



