



**PRO-TIDE**





# EU SUBSIDIES FOR TIDAL ENERGY

Pro-Tide end conference  
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[www.reeleaf.eu](http://www.reeleaf.eu)  
30-9-2015

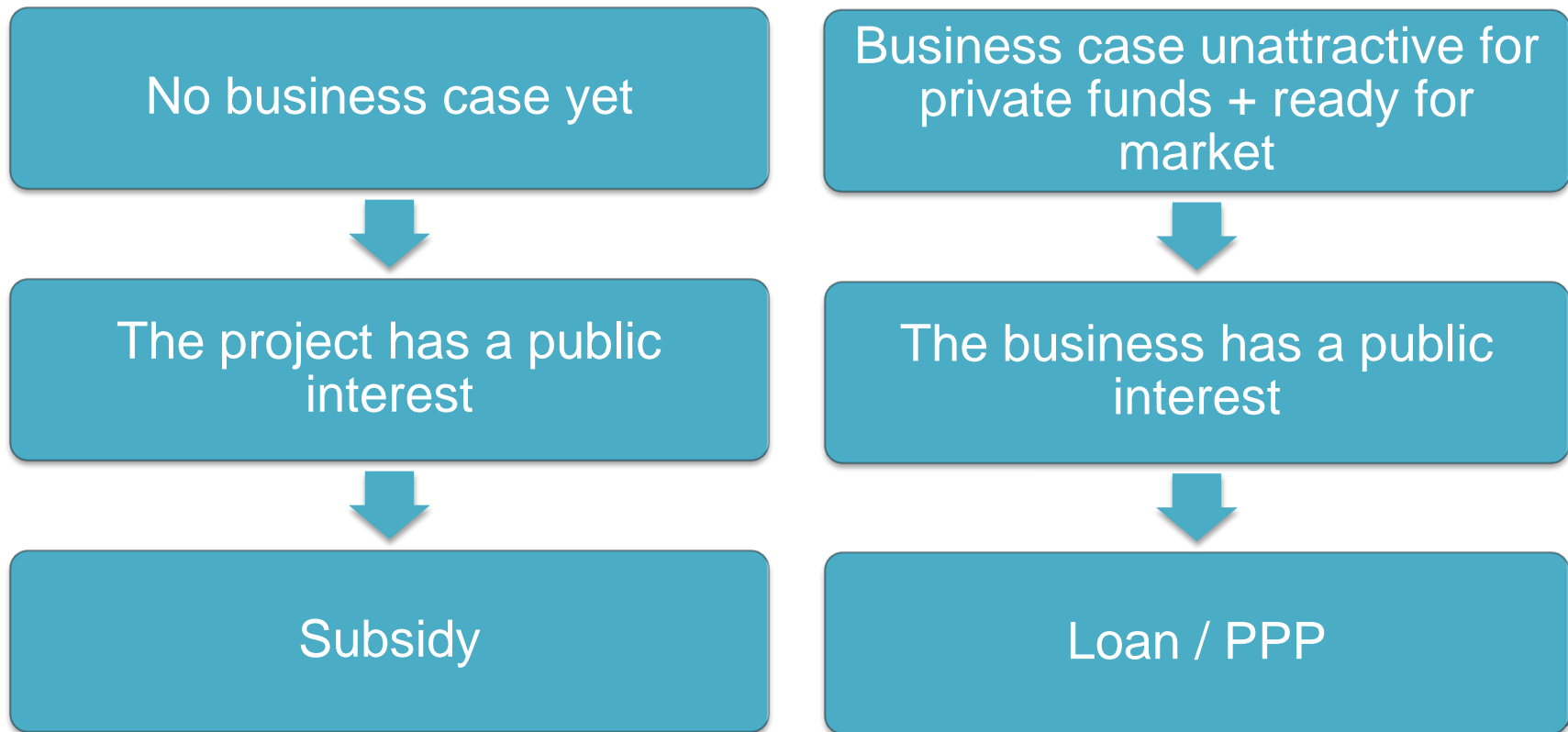


# Programme

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- 💡 Public funding for private sector projects
- 💡 EU programmes for tidal energy
- 💡 Horizon 2020
- 💡 Finding your subsidy

# Public funding for private sector projects



# EU-Subsidies (1)

Name	Focus	Type	Next calls expected
<b>Horizon 2020</b>	<b>Research and innovation</b> Technology	Research, development, networks / <b>SME Instrument</b>	27 October 2015 (LCE)
<b>COSME</b>	<b>Improving business conditions for SME</b> clusters (+ Access to finance)	Call specific - framework conditions	Summer 2016
<b>CEF – Energy</b>	<b>Energy infrastructure</b>	Grid connections, studies	Spring 2016  + multi-annual programme

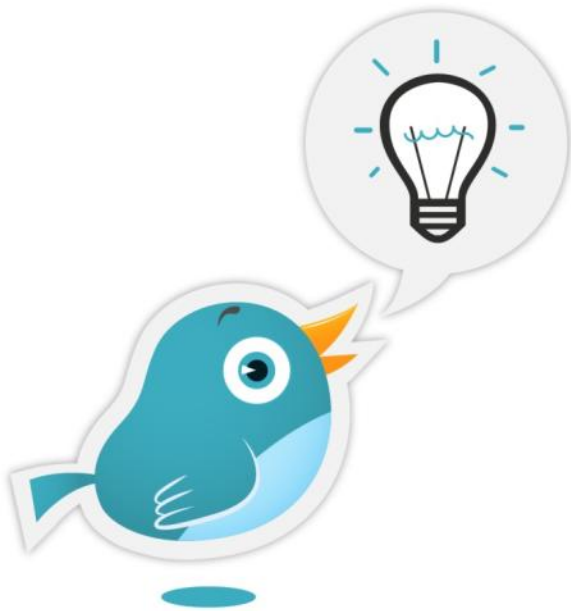
## EU-Subsidies (2)

Name	Focus	Type	Next calls expected
<b>ERDF</b>	<b>Regional economical development</b> – often with SME focus	Region specific	Region specific
<b>Interreg (NWE, 2 Seas, NSR....)</b>	<b>Cross-border cooperation</b>	Pilots, knowledge sharing, networks	Differs per region, in general Q4 2015 - Q1 2016
<b>Life+</b>	<b>Environment, resource efficiency</b> Nature conservation and climate action	Demonstrations	June 2016

# Horizon 2020 - draft work programmes

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- 💡 Drafts published  
September 2015 –  
changes will be made!
- 💡 Adoption expected  
October 2015





# Technology Readiness Levels

- TRL 0: Idea.** Unproven concept, no testing has been performed.
- TRL 1: Basic research.** Principles postulated and observed but no experimental proof available.
- TRL 2: Technology formulation.** Concept and application have been formulated.
- TRL 3: Applied research.** First laboratory tests completed; proof of concept.
- TRL 4: Small scale prototype** built in a laboratory environment ("ugly" prototype).
- TRL 5: Large scale prototype** tested in intended environment.
- TRL 6: Prototype system** tested in intended environment close to expected performance.
- TRL 7: Demonstration system** operating in operational environment at pre-commercial scale.
- TRL 8: First of a kind commercial system.** Manufacturing issues solved.
- TRL 9: Full commercial application,** technology available for consumers.



# Horizon 2020 - Calls to watch

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- 💡 **LCE-15-2016: Scaling up in the ocean energy sector to arrays**
- 💡 Show a reduction of the cost of energy while mastering the risks at project level
- 💡 TRL 7 – Demonstration system operating in operational environment at pre-commercial scale
- 💡 € 10-15 mln contribution

# Horizon 2020 - Calls to watch

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- 💡 **LCE-16-2017: 2<sup>nd</sup> Generation of design tools for ocean energy devices and arrays development and deployment**
- 💡 Develop and demonstrate new advanced tools based on the first experiences of ocean energy arrays
- 💡 TRL 6 – prototype system tested in intended environment close to expected performance
- 💡 € 5 – 7 mln contribution

# Horizon 2020 - Calls to watch

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- 💡 **LCE-07-2016-2017: Developing the next generation technologies of renewable electricity and heating/cooling**
- 💡 Improved understanding of component failure in current ocean-energy devices  
Development of ocean energy devices of improved performance, contributing to reduce the cost of ocean-energy
- 💡 TRL 4-5 Small scale prototype in laboratory or large scale prototype in intended environment
- 💡 € 2 – 5 mln contribution

# Horizon 2020 - Calls to watch

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- 💡 **NMBP-06-2017: Improved material durability in buildings and infrastructures**
- 💡 Typical applications are buildings, marine applications and infrastructures including off shore.
- 💡 TRL 5-6 Large scale prototype tested in environment / prototype system tested in environment close to expected performance
- 💡 € 3-6 mln contribution

# Horizon 2020 - Calls to watch

- 💡 LCE-02-2016 Demonstration of smart grid, with increasing share of renewables: distribution system TRL 5-8
- 💡 LCE-07-2016-2017 RES integration in the energy system TRL 4-5
- 💡 LCE-06-2017 New renewable energy technologies TRL 4
- 💡 NMBP-18-2016: Advanced materials enabling the integration of storage technologies in the electricity grid TRL 5-6
- 💡 FET-OPEN Novel ideas for radically new technologies TRL 1-2

# Finding your subsidy

**Innovation and goal**

**Partnership - public – private  
– cross-border**

**Research – develop – test  
demonstrate – produce – network –  
share  
TRL**

**Duration, timing, budget, funding need**

