



# Best Practice FTI - HighLift

# HighLift er en unik teknologi for gjenvinning av energi fra industriprosesser

## Olvondo Technology har utviklet en ny type varmepumpe:

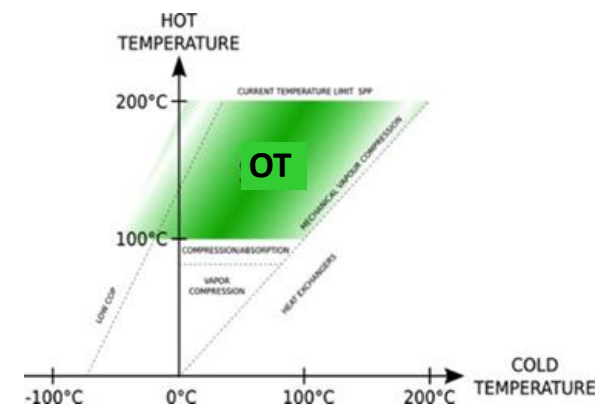
- Gjenvinner lavtemperatur spillvarme til høyverdig prosessvarme
- Åpner for nye energiformer som fjernvarme til industriprosesser
- Produserer damp og kjøling i en og same prosess
- Benytter helium som arbeidsmedium

## Anvendelsesområder:

- Benytter spillvarme fra 0 - 100°C
- Leverer prosessvarme fra 100 - 200°C

## Levert effekt:

- 500 kW varme
- 250 kW kjøling



## LOS Gruppen AS



Vi leverer totalentrepriser, mindre oppdrag og service innen høyspentanlegg onshore og offshore .



Prosjektledelse  
EPC



Kabelanlegg  
11 – 420 kV



Strøm Skinner  
230 V – 170 kV



Landstrøm  
230 – 22 kV



Monitoring  
Solution



RockRoller  
Solution

## Solid norsk forankring

- Etablert på Bømlo
- Kontor i Drammen
- Produksjon på Rubbestadneset
- 50/50 JV mellom LOS Gruppen og Westcon

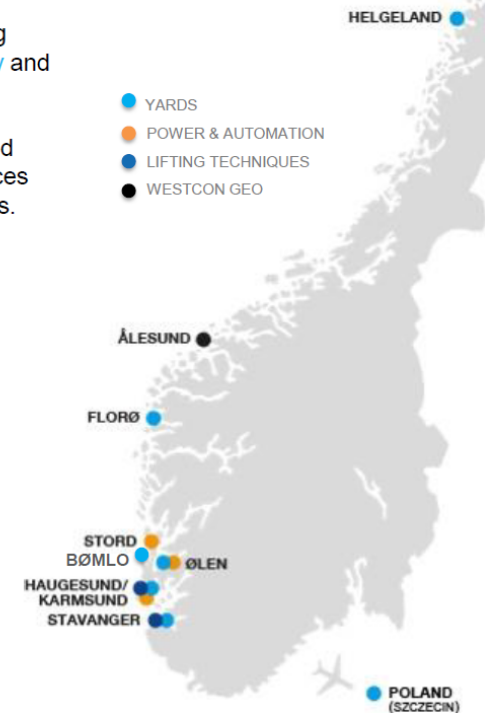
## WESTCON®

Westcon Group has over the last 30 years become a leading provider of services and products within the offshore, energy and maritime industry.

Strategically located along the Norwegian coast, to serve and support the activities in the North Sea. Westcon offers services with unique possibilities to serve our customer in many areas.

- Engineering
- Fabrication
- Service, maintenance and installation
- Power & automation
- Lifting techniques
- Seismic

Westcon has a total of over 850 motivated and highly skilled employees.





[European Commission](#) > [Funding, Tenders](#) > [Funding opportunities](#) > [Funding programmes](#) > [Horizon 2020](#) >

Horizon 2020 is the biggest EU Research and Innovation programme ever with nearly €80 billion of funding available over 7 years (2014 to 2020) – in addition to the private investment that this money will attract. It promises more breakthroughs, discoveries and world-firsts by taking great ideas from the lab to the market.

- Norge bidrar med penger for å være en del EUs forskningsprogram
- Finansieringen utbetales som støtte i henhold til godkjent prosjektplan
- Støttebeløpet fra EU regnes ikke med i EØS reglene for konkurransevridende offentlig støtte
- Forskningsrådet bistår med midler til å gjennomføre en søknadsprosess



# Olvondo Technology har fått støtte fra EUs Horizon 2020 FTI Program



- Søkte i mai på Horizon 2020 Fast Track to Innovation programmet

- Partnere:

- AstraZeneca, Sverige
- Åbo Akademi University, Finland

- Søknaden godkjent i august 2,5 M€

- Prosjektstart 1. desember i år

- Objective

*The project will address and implement the technical and commercial roadmaps that we have developed with AZ and other industrial test users to enable a rapid and successful commercialization of HighLift.*

- Success criteria

- Strengthen our IP protection and secure Freedom-to-Operate
- Optimize our value chain, expand collaborations with up- and down-stream partners to meet market demand;
- Cumulative revenue and gross profit of €109.3m and €42.6m in five years post-project

## Evaluation Summary Report

### Evaluation Result

Total score: 13.59 (Threshold: 13)

### Form information

#### SCORING

Scores must be in the range 0-5.

#### Interpretation of the score:

- 0- The **proposal fails to address the criterion** or cannot be assessed due to missing or incomplete information.
- 1- **Poor.** The criterion is inadequately addressed, or there are serious inherent weaknesses.
- 2- **Fair.** The proposal broadly addresses the criterion, but there are significant weaknesses.
- 3- **Good.** The proposal addresses the criterion well, but a number of shortcomings are present.
- 4- **Very good.** The proposal addresses the criterion very well, but a small number of shortcomings are present.
- 5- **Excellent.** The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.

### Evaluation criteria:

- Impact
- Excellence
- Quality and efficiency of implementation

# EUs støtteprogrammer – Hva trengs for å søke

1. God idé



2. God plan

**EU Horizon 2020 FTI - R&D initiatives within plan**

Activity	Impact	Estimated cost (M€)		
<b>Intelligence SAT</b>	• Valid and verified test configuration used	• Increased IOT at Aalborg and others of 2.5 M€	• 4.2	
<b>Open test facility</b>	• Available online open	• Increased volume of energy	• Increased volume of energy	
<b>Novel generation flight</b>	• Improved quality and reliability of energy	• Improved quality and reliability of energy		
<b>Research support to continue</b>	• Improved quality and reliability of energy	• Improved quality and reliability of energy		
<b>Deployment operations</b>	• Improved quality and reliability of energy	• Improved quality and reliability of energy		

**EU Horizon 2020 FTI - Scale for Growth initiatives within plan**

Activity	Impact	Estimated cost (M€)	
<b>Deployment and setup</b>	• Substantial ready-to-go with production and support	• Accelerated growth through higher level of industrialisation	• 3.8
<b>Improved logistics</b>	• Increased logistics and control of work in stock warehouse of some central facility	• Reduced delivery time of materials to 3 months	• 2.9
<b>Industrial production</b>	• Surface hybrid solar reactor with various processes	• Business model and pricing structure established	• 3.5

**Spreadsheet:** A large data table with multiple columns and rows, likely representing project details, costs, and timelines.

3. God hjelp

**NORDIC INNOVATORS**

SERVICES | FUNDING PROGRAMMES | CASE OVERVIEW | ABOUT US

**WE HELP YOU REALISE YOUR INNOVATIVE IDEAS**

**WE WRITE SUCCESSFUL FUNDING PROPOSALS**



## Technical Annex Part B1-3

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- Hjelp til å finne rett program og skrive søknaden er absolutt nødvendig
- Konsulentene er gode støttespillere også under Grant Agreement forhandlingene med EU
- Få med aktive partnere. Avklar deltakelse så tidlig som mulig
- Fordel ansvar og oppgaver så jevnt som mulig på alle partnere
- Viktig å dokumentere markedsinteresse
  - Tenk internasjonalt
  - Letter of Support fra ulike kundesegmenter
  - Tine videoen
- Ingen grunn til å være beskjeden
- Ikke underestimer arbeidsbyrden. Konsulentene skriver, men vi har ansvaret for innhold og korrekthet.

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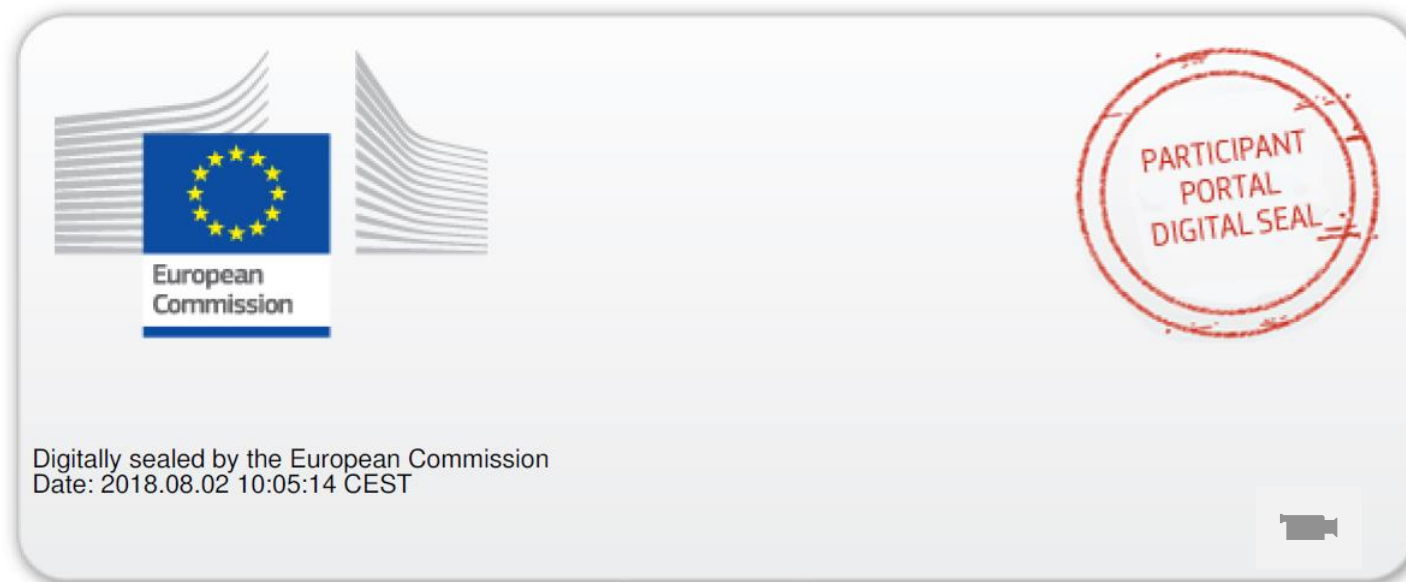
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- 5– Excellent. The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.*

### Evaluation criteria:

- Impact – Score 4,62
- Excellence – Score 4,62
- Quality and efficiency of implementation – Score 4,25





Takk for oppmerksomheten!



Make Your Energy **Green**

[www.olvondotech.no](http://www.olvondotech.no)

## Typiske bruksområder:

- Produksjon av hettvann og damp fra spillvarme eller kjøleanlegg

## Typiske industrier:

- Næringsmiddelindustri
- Prosessindustri
- Farmasøytisk industri
- Akvakultur
- Fjernvarme

## Erfaringer:

- 30.000 driftstimer fra to pilotanlegg hos Tine
- 10.000 operative driftstimer fra anlegg hos Tine og AstraZeneca

## Olvondo Technology AS

- Varmepumpeprisen fra NOVAP 2011
- OREEC innovasjonspris 2013
- Nominert til årets Innovasjonspris i CEWEP 2018.
  
- EU finansiering fra Horizon 2020 Fast Track To Innovation

