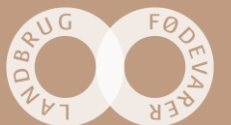


# Workshop

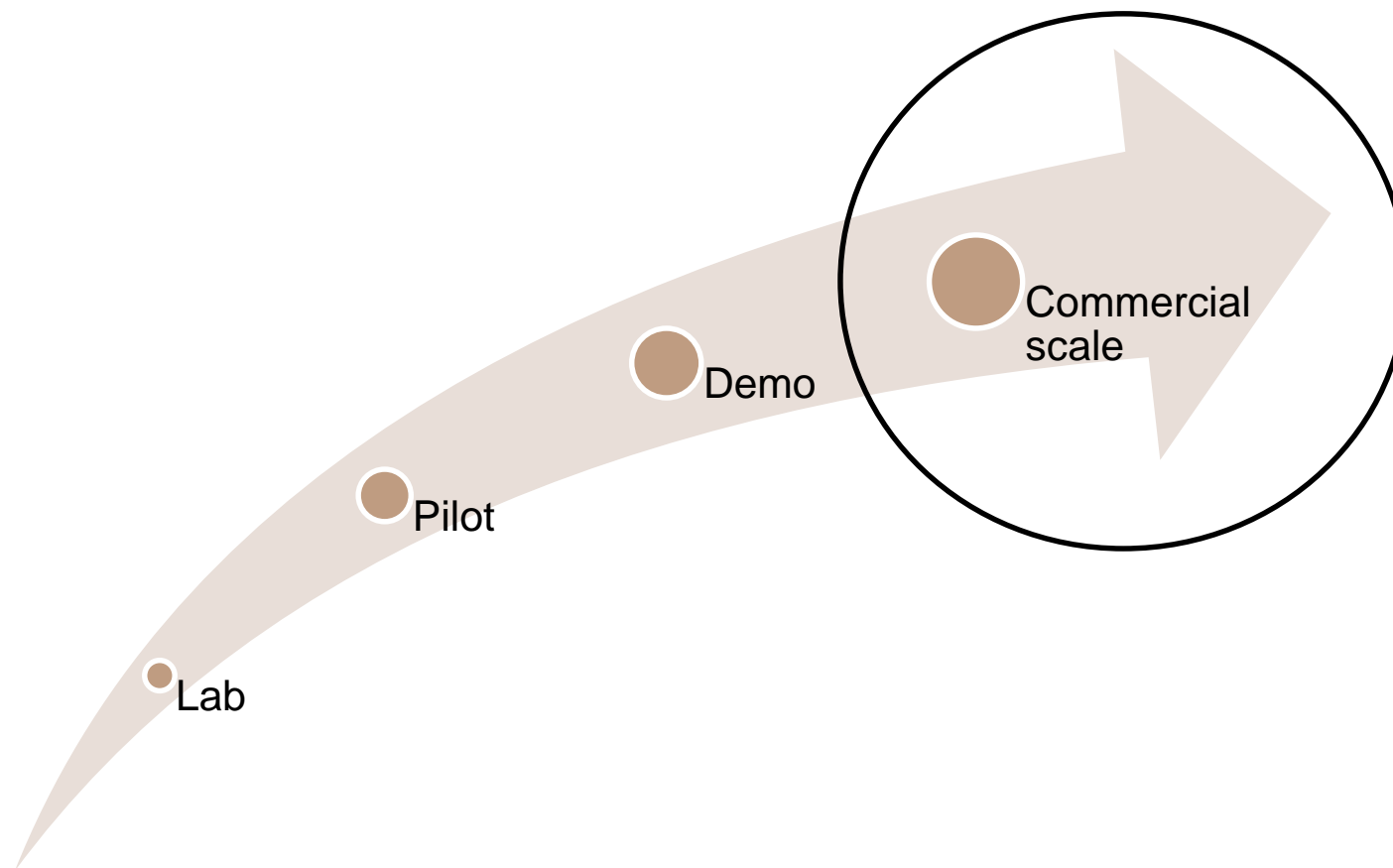
hvordan får vi etableret en betydelig kommerciel produktion af avancerede biobrændstoffer i Danmark?

**SEGES**

STØTTET AF  
**Promille**afgiftsfonden for landbrug



# Hvordan får vi etableret en betydelig kommerciel produktion af avancerede biobrændstoffer i Danmark



# For få år siden så det lovende ud for 2. generations bioethanol-industrien

Tranquility Base Here. The Crescentino project has landed.

September 18, 2012 | Jim Lane

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Once described as a “moon shot”, Beta Renewables’ commercial-scale cellulosic ethanol project hovers just over the lunar surface, weeks from completion.

It’s transformative cost structure may well reignite the cellulosic rockets.

The first thing you notice about the Beta Renewables cellulosic ethanol plant in Crescentino is the size and scope. Tucked away in the sprawling, agriculture-rich plain that lies just south of the Italian Alps in the vicinity of Torino, the towering columns dominate the surrounding landscape like the gantryways of Kennedy Space Center’s launch pads, lording it over the Florida flatlands at Cape Canaveral.

After the long “five years away” era of cellulosic biofuels, where systems fit on benches, or in small shacks that held pilots, the Digest had recently profiled large-scale demonstrations started coming along at locations like Boardman, Oregon (ZeaChem), and Rome, New York (Mascoma), Kalundborg, Denmark (Inbicon) and Sherbrooke, Quebec (Enerkem). They were a startling expansion in size.

This year, the 8 million gallon INEOS Bio facility in Vero Beach, Florida has been completed and is going through its commissioning process now. It is awesome in its own right.



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GranBio starts cellulosic ethanol production at 21 million gallon plant in Alagoas, Brazil

September 24, 2014 | Jim Lane

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World’s largest-known cellulosic ethanol project to date comes online in Brazil in record time.



In Brazil, GranBio has initiated production at the first commercial-scale plant for second-generation ethanol in the Southern Hemisphere. The Bioflex 1, unit built in São Miguel dos Campos, Alagoas, has an initial production capacity of 82 million liters of ethanol per year (21.6 million US gallons)

GranBio invested US\$190 million to build the plant and US\$75 million on the steam and electricity co-generation system, the latter investment along with the Carlos Lyra Group’s Caeté facility. Construction was completed in 20 months, quick as compared to any other undertaking of its size, and was managed by GranEnergia, a company also controlled by GranInvestimentos S.A.



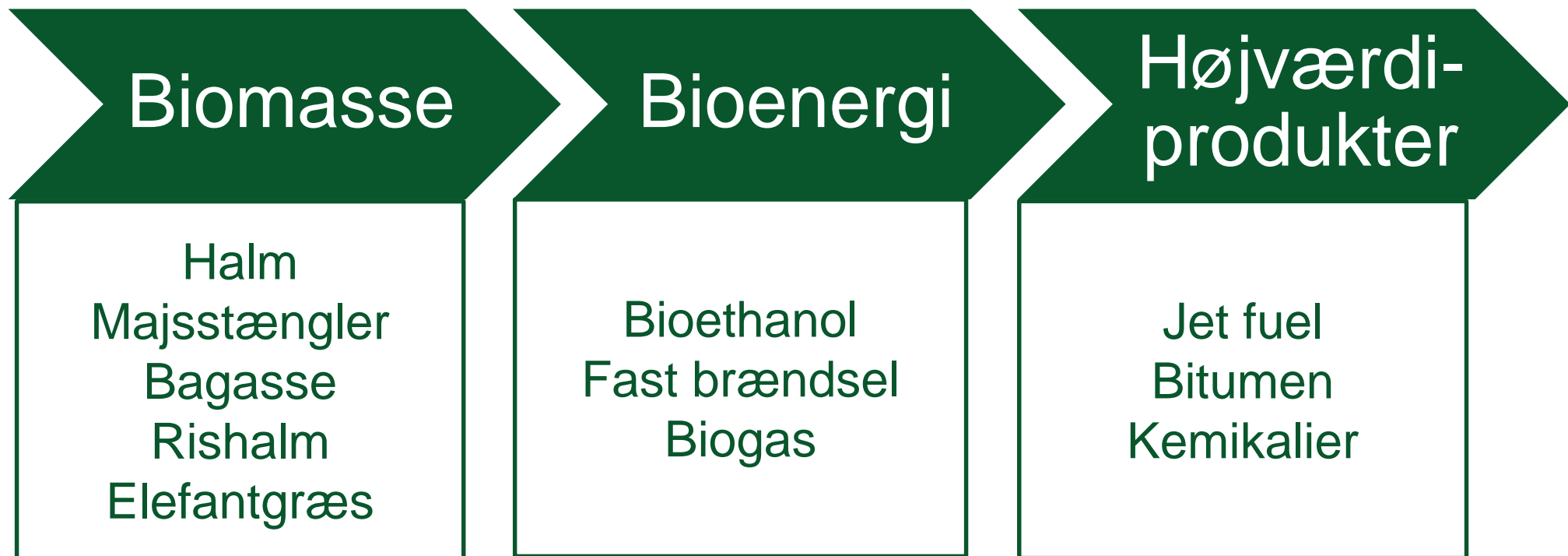
VIRKSOMHEDER

## Dong-selskab vil forvandle halm og sprit til ny eksportsucces

En håbefuld ny dansk teknologi til fremstilling af sprit af halm og stængler fra sukkerrør til benzin kan udvikle sig til en eksportsucces for DONG i Kina og Brasilien.



## Som lignede et afsæt frem mod produktion af højværdiprodukter



# Men forhåbningerne blev erstattet af massive problemer

## Bioethanol-anlæg i Holstebro droppet

Maabjerg Energy Concept har droppet planerne om et nyt bioethanolanlæg i Holstebro.



Foto: www.maabjergenergycenter.dk

### Novozymes' prestigefabrik til 650 mio halter



Novozymes' Thomas Schrader (tv) og Dario Giordano, Novozymes' partner, på fabrikkens, der har drillet. Foto: Stephan Alaman

AVISEN Af Stephan Wedel Alzman, Crescentino, Italien

24. MAJ 2016



## DuPont to sell cellulosic ethanol plant in blow to biofuel

Michael Hirtzer, Jarrett Renshaw

3 MIN READ



CHICAGO/NEW YORK (Reuters) - DuPont Industrial Biosciences, a unit of DowDuPont Inc, on Thursday said it halted operations at a two-year-old ethanol plant and will sell it, dealing another blow to efforts to create biofuels without using food crops.

The decision to shut the Iowa plant comes as political winds are undercutting efforts to produce ethanol from plant waste and wood shavings. The U.S. Environmental Protection Agency (EPA) this year has pushed to lower the amount of cellulosic biofuels that need to be blended into the nation's fuels under a 2007 mandate, arguing the industry has not produced enough.

DuPont spent about \$225 million to build the facility, which used corn stalks and straw

3 November 2017

## M&G files for bankruptcy, selling assets

Frank Esposito, Plastics News



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Materials



Photo by BL Harbert International

Early construction at the M&G plant in Corpus Christi

Financial turmoil is leading materials firm M&G USA Corp. to seek a buyer for its unfinished PET resin and feedstock plant in Corpus Christi, Texas.

Officials with Houston-based M&G revealed the sale attempt in a 30 Oct filing with US Bankruptcy Court in Delaware. Its M&G Polymers unit filed for bankruptcy protection on 24 Oct.

The filing was made "to access \$100m

## The Next Big Thing In Ethanol Yet To Reap Profits, Solve Technical Problems

by Amy Mayer, Harvest Public Media



Project Liberty general manager Jason Martin has overseen troubleshooting at the cellulosic plant operated by POET-DSM in Emmetsburg, Iowa. (Photo by Amy Mayer, Harvest Public Media) January 1, 2018 - 6:45am

Advanced biofuels have been touted as the next step beyond the corn-based ethanol that's the bulk of the country's renewable fuel for cars and trucks. But cellulosic ethanol is harder to make and companies have faced other challenges.

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