



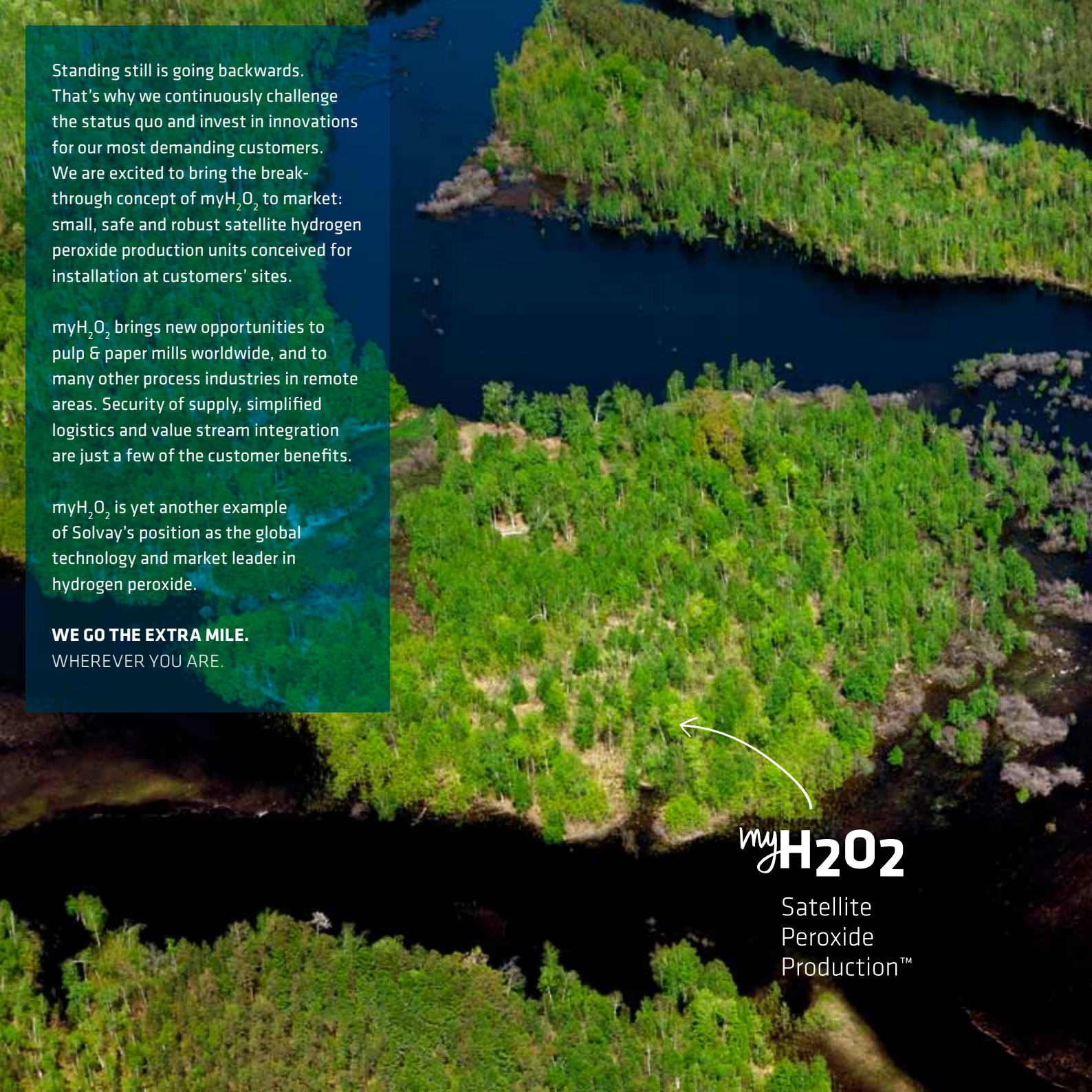
**SOLVAY**

asking more from chemistry®

*my* **H<sub>2</sub>O<sub>2</sub>**

Satellite  
Peroxide  
Production™

**WE GO THE  
EXTRA MILE.  
WHEREVER  
YOU ARE.**

An aerial photograph of a lush green forested island in a dark river. The island is surrounded by water and has a dense canopy of trees. The lighting is bright, suggesting a sunny day.

Standing still is going backwards.  
That's why we continuously challenge  
the status quo and invest in innovations  
for our most demanding customers.  
We are excited to bring the break-  
through concept of myH<sub>2</sub>O<sub>2</sub> to market:  
small, safe and robust satellite hydrogen  
peroxide production units conceived for  
installation at customers' sites.

myH<sub>2</sub>O<sub>2</sub> brings new opportunities to  
pulp & paper mills worldwide, and to  
many other process industries in remote  
areas. Security of supply, simplified  
logistics and value stream integration  
are just a few of the customer benefits.

myH<sub>2</sub>O<sub>2</sub> is yet another example  
of Solvay's position as the global  
technology and market leader in  
hydrogen peroxide.

**WE GO THE EXTRA MILE.**  
WHEREVER YOU ARE.

A white curved arrow pointing from the 'myH2O2' logo towards a specific area in the forest on the island.

**myH<sub>2</sub>O<sub>2</sub>**

Satellite  
Peroxide  
Production™



myH<sub>2</sub>O<sub>2</sub>

# ALTERNATIVE SUPPLY CHAIN

With myH<sub>2</sub>O<sub>2</sub> Satellite Peroxide Production™ units, Solvay offers an innovative solution to optimize the hydrogen peroxide supply chain for large customers.

In a standard supply chain situation, hydrogen peroxide - produced at a Solvay site - is concentrated, transported and re-diluted before use at customers' facilities.

In order to better support our customers' businesses, Solvay has thoroughly investigated many alternatives to improve upon the standard hydrogen peroxide supply chain, especially for large customers in remote locations: alternatives for transport and logistics, alternatives for concentration and dilution, and alternative sources of hydrogen.

We offer the solutions to do better.

# HOW IT WORKS

For quite a few years, Solvay has been working on a breakthrough new concept of small hydrogen peroxide production units to be installed at its customers' sites. myH<sub>2</sub>O<sub>2</sub> is a unique, robust, reliable and safe solution that is tailored to the customers' needs.

## 1.

### Unique Solvay process technology & compact design

The myH<sub>2</sub>O<sub>2</sub> unit combines new proprietary and innovative technology developments from Solvay to run small H<sub>2</sub>O<sub>2</sub> production units in safe, reliable, competitive conditions.

**Capacity** 3-15 kt/yr H<sub>2</sub>O<sub>2</sub>

**Design** modular, compact, pre-assembled, skid-mounted

**Operation** local day-crew + remote monitoring & control

**Product** non-concentrated H<sub>2</sub>O<sub>2</sub>

## 2.

### Installed at the customer's premises for on-site H<sub>2</sub>O<sub>2</sub> consumption

myH<sub>2</sub>O<sub>2</sub> Satellite Peroxide Production™ units are installed at the customer's location, and are tailored to its premises. They therefore allow new ways of simplifying and optimizing a variety of operations.

Production at the customer plant guarantees the security of supply and overcomes supply chain challenges.

## 3.

### Associated with Solvay's hydrogen peroxide mother plant for catalyst & solvent supply and regeneration

The myH<sub>2</sub>O<sub>2</sub> Satellite Peroxide Production™ unit is not a stand-alone concept; it has a simplified process flow and remains associated with a hydrogen peroxide mother plant for remote control and centralized supply & regeneration of catalyst and solvents at defined calendar intervals.

## 4.

### Integrated value stream with the customer for hydrogen and other feedstocks and utility sources

The myH<sub>2</sub>O<sub>2</sub> satellite unit is very suitable for large customers, such as pulp & paper mills worldwide, and to many other process industries in remote areas, as it offers unprecedented levels of value stream integration:

- Integrated supply of hydrogen feedstock (electrolysis, gasification or reforming)
- Oxygen and utilities
- Land and typical site services

# DESIGN & LAYOUT

Inside Battery Limits components and process areas for a safe, robust and reliably operating myH<sub>2</sub>O<sub>2</sub> Satellite Peroxide Production™ unit.

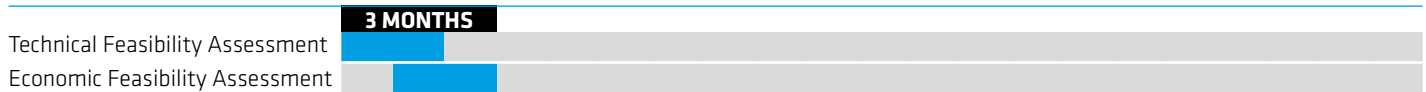
1. Synthesis unit
2. Storage tanks
3. Cooling tower
4. Tech room / DCS / MCC / substation / office
5. Effluent pit
6. Air compressor



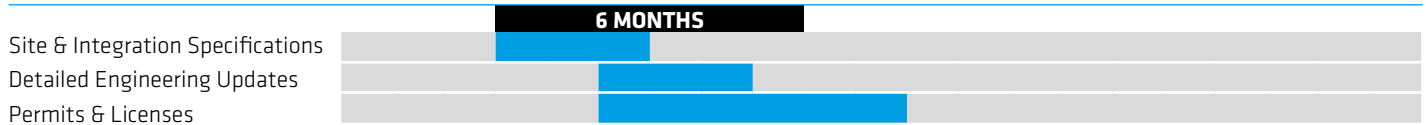
# NEXT STEPS & TIMELINE

for installing a myH<sub>2</sub>O<sub>2</sub> Satellite Peroxide Production™ unit at your site.

## 1 ASSESSMENT CONFIDENTIALITY AGREEMENT

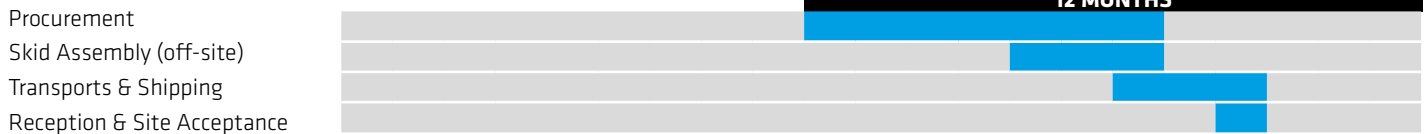


## 2 LOCALIZATION ENGINEERING AGREEMENT



## 3 ENGINEERING PROCUREMENT CONSTRUCTION LONG TERM SUPPLY AGREEMENT

### Stream 1 Equipment



### Stream 2 Site



### Stream 3 Supply



## 4 LAUNCH START-UP & PRODUCTION



## About Solvay

Solvay is reshaping the global chemical industry. Asking more from chemistry, Solvay is capable of attracting and developing talented people who conceive, design and produce solutions to meet the major challenges facing society today.

Solvay is the leading global supplier of hydrogen peroxide, offering 14 production sites worldwide, and 5 R&D centres. Solvay is also the global technology leader in hydrogen peroxide mega plants, supported by partnerships and joint ventures with DOW Chemical, Aramco and BASF.

Solvay is the only partner capable to deliver specific designs at both the extremes of the capacity spectrum, to be operated safely, reliably and economically.

€ **9,940**  
mln net sales

 **29,400**  
employees

 **117**  
sites

 **56**  
countries

 **15**  
major R&I centres



**Solvay S.A.**

Rue de Ransbeek

1120 Brussels

T +32 2 264 2111

F +32 2 264 3061

[www.solvay-myh2o2.com](http://www.solvay-myh2o2.com)

[info.myh2o2@solvay.com](mailto:info.myh2o2@solvay.com)

[www.solvay.com](http://www.solvay.com)

