

EXEGER

Dyemond Solar



LIFE Project Number  
LIFE09 ENV/SE/00035

After Life  
communication plan

# INTRODUCTION

## Pilot plant project in the city centre of stockholm

### Project Scope

In 2010, EXEGER set out to demonstrate the potential of producing Dye Sensitized Solar Cells (DSC) using screen printing as a production method.

The project was led by serial entrepreneur Giovanni Fili, CEO of EXEGER and DSC pioneer Dr. Henrik Lindström, CTO of EXEGER.

Together they recruited the necessary competence to design and build the new state of the art pilot plant in Stockholm, Sweden.

### DSC Technology

DSCs are ideally suited for a variety of real life conditions thanks to their inherent characteristics.

They are based on the principle of photosynthesis allowing for light to be captured in a variety of sub-optimal lighting conditions.

This means they are less sensitive to the angle of incident light and higher working temperatures than previous generation solar technologies.

They also excel at low light conditions which means that fog, smog, or cloudy weather have little effect on efficiency.

### Results

The pilot plant demonstrated successful results in November 2014 with a production of 50m<sup>2</sup> per day during a period of 5 subsequent days.

Throughout the project, visits to the pilot plant were conducted with positive reactions.

The public, academia, government officials, media, industry, all have been continuously impressed at the potential of this solar technology and the method chosen for production of the solar cells.

# PROJECT LOCATION

City centre of stockholm



The pilot production plant is located in the Stockholm city centre

# PILOT PRODUCTION LINE

## Demonstration

Screen printing is a well established, proven and cost efficient production method.

A [modular design](#) of the factory enables [scalability](#) for future plans of setting up large scale manufacturing in target markets.

In 2014 a yearly production capacity of 20,000m<sup>2</sup> was demonstrated. [Scalability was confirmed.](#)

With the knowledge attained from the Dyemond Solar project, EXEGER is currently expanding the yearly production capacity to 125,000m<sup>2</sup> by the end of 2015.



Inauguration of the new factory by the Swedish King HM Carl XVI Gustaf

# DISSEMINATION ACTIVITIES

## During the project

### Media and other communication and dissemination work

Type of media	No.
Project website: average number of visitors per month	1 700
Press releases made by the project	12
General public article in national press	16
General public article in local press	8
Specialised press article	5
Internet article	12
TV news/reportage	1
Film produced	1
Exhibitions attended	12
Project notice boards	8

### Publications

Type of publication	No. published	No. of copies	Languages
Layman's report	1	1 000	2
Manuals	1	100	2
Leaflets	1	2 000	2
Brochures	4	4 000	2
Posters	8	500	1

### Workshops, seminars and conferences

Target audience:	General public			Specialised audience (e.g. decision-makers)			Very specialised audience (e.g. experts, academics)		
Number of participants:	Regional	National	International	Regional	National	International	Regional	National	International
0-25 participants				X		X	X	X	X
25-75 participants	X			X	X			X	X
75-100 participants	X	X				X		X	
>100 participants	X	X	X			X			

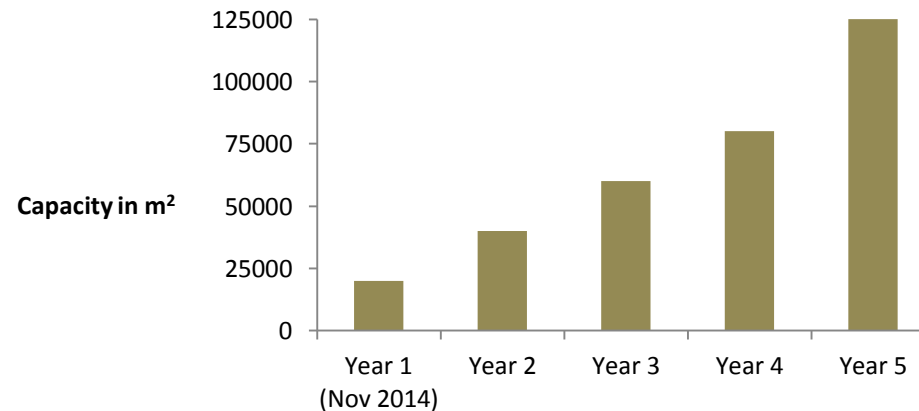
# DISSEMINATION ACTIVITIES

## Future communication strategy

After-Life communication is important for the success of the project. It is only after a successful demonstration, the project can really take off and this is recognized in the communication strategy. Workshops and guided tours at the pilot plant have been and will continue to be held in the future. Dissemination will take place through attendance and presentations at similar events as during the ongoing project throughout Europe. The Dyemond Solar project homepage will be continuously monitored with contact information to the project coordinator at EXEGER.

As the global yearly capacity of the Dyemond Solar technology increases we expect the dissemination to also increase in success. This will in turn have a beneficial synergy effect boosting the awareness as increased capacity will translate into increased awareness and interest.

Projected global yearly capacity for Dyemond Solar technology





The potentially usable radiation of the sun is about  $1.9 \times 10^8$  TWh per year which translates to approximately 170 times the total amount of energy of global coal reserves. This means the solar energy reaching the earth's surface during only 6 hours is enough to meet all global energy needs on an annual basis.<sup>1</sup>

The Dyemond Solar project has proved the production potential and scalability of screen printing as a production method for manufacturing dye sensitized solar cells. This solar technology in combination with the chosen production method is sustainable and environmentally friendly with no toxic emissions, allowing for a pilot plant to be situated in the city centre of Stockholm.

<sup>1</sup>Source: "Sustainable Energy Management" 2012  
Mirjana Radovanović (Golusin), Stevan Popov, Sinisa Dodic

# CONTACT INFORMATION

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