

# **SÅ ARBETAR POWER CIRCLE FÖR EN VINDKRAFTSINDUSTRI I SVERIGE**



## **WIND POWER & INDUSTRY, KALMAR**

**CHRISTER ASPLUND, POWER CIRCLE / IVA**

# power circle

ELECTRICITY FOR SUSTAINABLE ENERGY

**ABB**

**BOMBARDIER**

**Fortum**

**Gila**  
CONTROL SYSTEM AB



**ALSTOM**

**ELSÄKERHETSVERKET**

**STRI**

**ELFORSK**

**GÄVLE ENERGI**

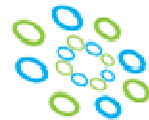


SVENSKA ELFÖRETAGENS FORSKNINGS- OCH UTVECKLINGS - ELFORSK - AB

**Hexaformer**



**SVENSK energi**



**EMC**  
ENVIRONMENTAL  
MOBILITY CENTER

**VATTENFALL**



**SEABASED**

**REGION FÖRBUNDET**  
I KALMAR LÄN

**Sandviken ENERGI**

**Mälaren Energi**



**VEAB**

VÄXJÖ ENERGI AB

**Svensk Vindenergi**

**REJLERS**



**UPPSALA  
UNIVERSITET**



**Statkraft**



**High  
Voltage  
Valley**

CONFIDENTIAL  
DOCUMENT DRAFT!

Business proposal for



Concerning localisation of blade  
manufacturing in Västervik



# “Kalmar Wind Engineering Competence Center Project”



## Main project work group

### Invest in Sweden

- Mr. Lennart Witzell, *Manager Cleantech*

### The Regional Council in Kalmar County

- Mr. Håkan Brynielsson, *CEO the Regional Council in Kalmar County*
- Mr. Göran S Eriksson, *Coordinator Wind power*

### Västervik municipality

- Mr. Harald Hjalmarsson, *Mayor Västervik Local Authority*
- Mr. Conny Jansson, *Director Västervik Local Authority*

### Power Circle

- Mr. Christer Asplund, *Project Manager Power Circle*

### Västervik Framåt

- Mr. Carl-Magnus Mårheden, *President / CEO*

### Marström Composite AB

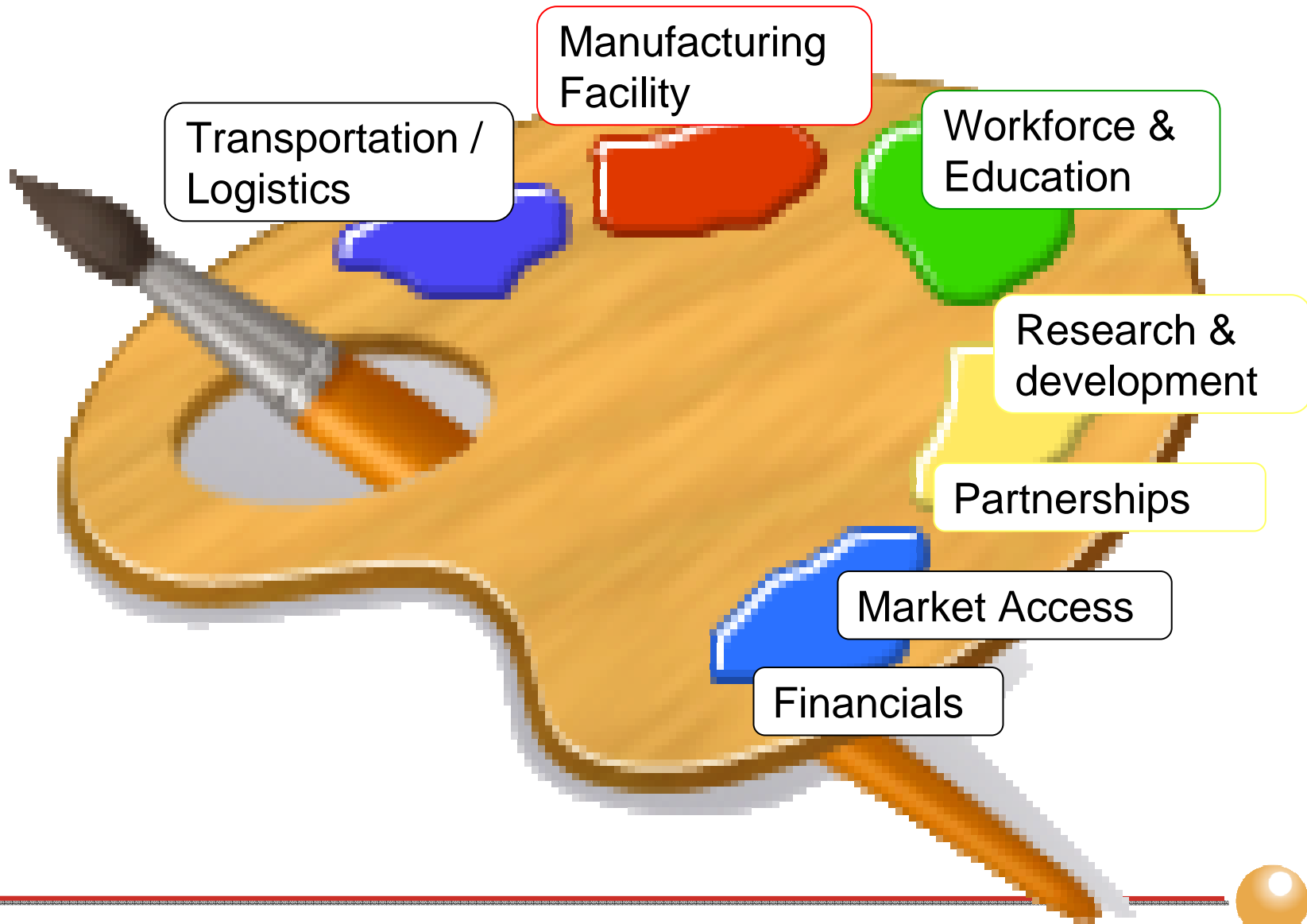
- Mr. Per Wörn, *President / CEO*
- Mr. Göran Marström, *Founder / Technical Director*

### PUCK – Plastic and Polymer Center in East Sweden

- Mr. Christer Hedberg, *President CEO*

Mr. Richard Granberg, *Coordinating Project Manager (External business development consultant)*

# A palette of business opportunities in Västervik



Program for the visit by Mr. Kalyani and delegation in Stockholm  
Feb. 22 – 23, 2009

**Feb. 22, 8 p.m. Informal Dinner at the Hotel.**

**Feb. 23, 08.50 Pick up at SAS Radisson Royal Wiking, (reception desk)**

**09.00 – 10.45 Meeting at ISA (Invest in Sweden), Presentation of Swedish development within windpower and summary of the proposed blade manufacturing project** Thomas Kåberger, General Director Swedish Energy Authority, Nils Andersson, Senior advisor, Vattenfall, Matthias Rapp, Director Swedish Wind Energy Association, Lennart Witzell, ISA and [Christer Asplund](#), Power Circle/IVA.

**10.45 – 11.00 Transfer to the Swedish Ministry of Enterprise, Energy and Communication.**

**11.00 – 11.45 Meeting with Ola Alterå, Secretary of State, Ministry of Enterprise, Energy and Communication.**

**11.45 Departure to the airport**

**Welcome**

Lennart Witzell

Christer Asplund



Naturvetenskapliga institutionen  
Högskolan i Kalmar  
38192 Kalmar

Rapporten får ej spridas till obehöriga  
Innehåller konfidentiell information

2009-04-15

Bo Carlsson, [bo.carlsson@hik.se](mailto:bo.carlsson@hik.se)

*Kort lägesrapport för STEM-projekt (31634-1):*

**Lämplighet av kolfiber jämfört med glasfiber som kompositmaterial för vindturbinblad - En  
totalkostnadsanalys**



- A project initiated and hosted by Power Circle
- Supported by the Swedish Energy Agency and the Swedish power industry
- The project "Driven by the wind" hosts several of Europe's *first demsites for electric vehicles*



## How to make good use of a wind farm?

*A large sea based wind farm, like this 400 MW Eon project designed for the North Sea, can supply 1 600 000 000 kWh a year, which is enough to give 700 000 electric cars a possibility to drive 15 000 km/year.*



# Framtidsscenario Gotland

För 32 000 bilar behövs 6 vindkraftverk



# Framtidsscenario Gotland

*Detta innebär att Gotland som första region i Europa, bland 150 000 kommuner, lyckas med en total energiomställning inom transportsektorn.*



CO<sub>2</sub>-utsläppen skulle minska med ~ 77 000 ton/år



# Tack för att ni lyssnade!

