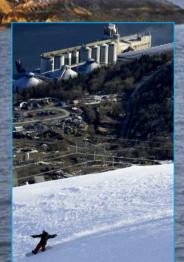


#### Meløy(Nordland)

- experience the world's most beautiful coastline

Growth and competitiveness through renewable energy resources
Workshop: 06B07

















Ide, tekst og layout: Lothar Maruhn Foto: Lothar Maruhn og Edmund Ulsnæs



Our Profile

Motivated IN novative Universal





## OUR Profile otivated IN novative Universal

#### **Our main Purpose**

• Contribute and support ideas and projects in creating profitable jobs and companies, develop industrial infrastructure

#### **Our Products and Service**

•Advising, financing and network, idée- and project development

#### **Our Partners**

•Start-up companies, entrepreneurs and existing companies

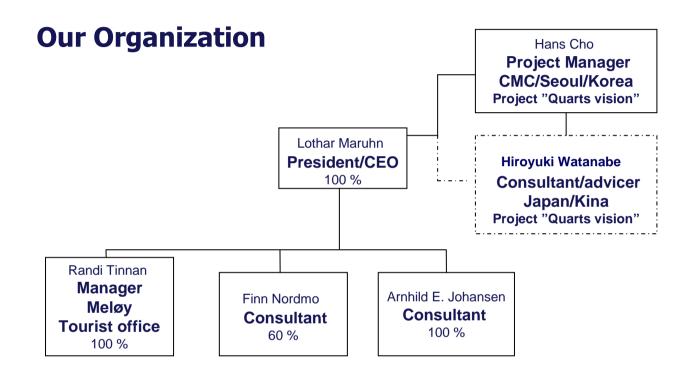
#### **Our Advantage**

• Broad competence and network, flexibility and unbureaucratic in our work



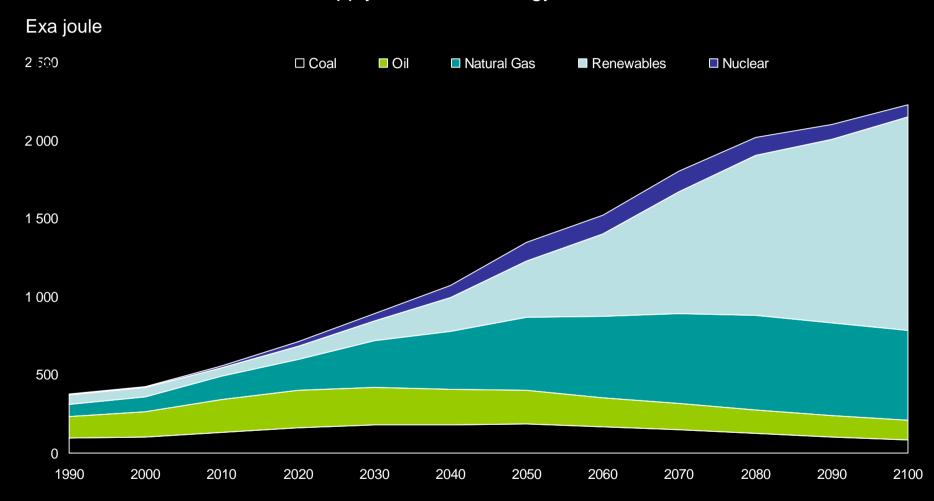
## Our Profile

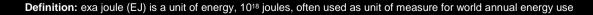
otivated IN novative Univer



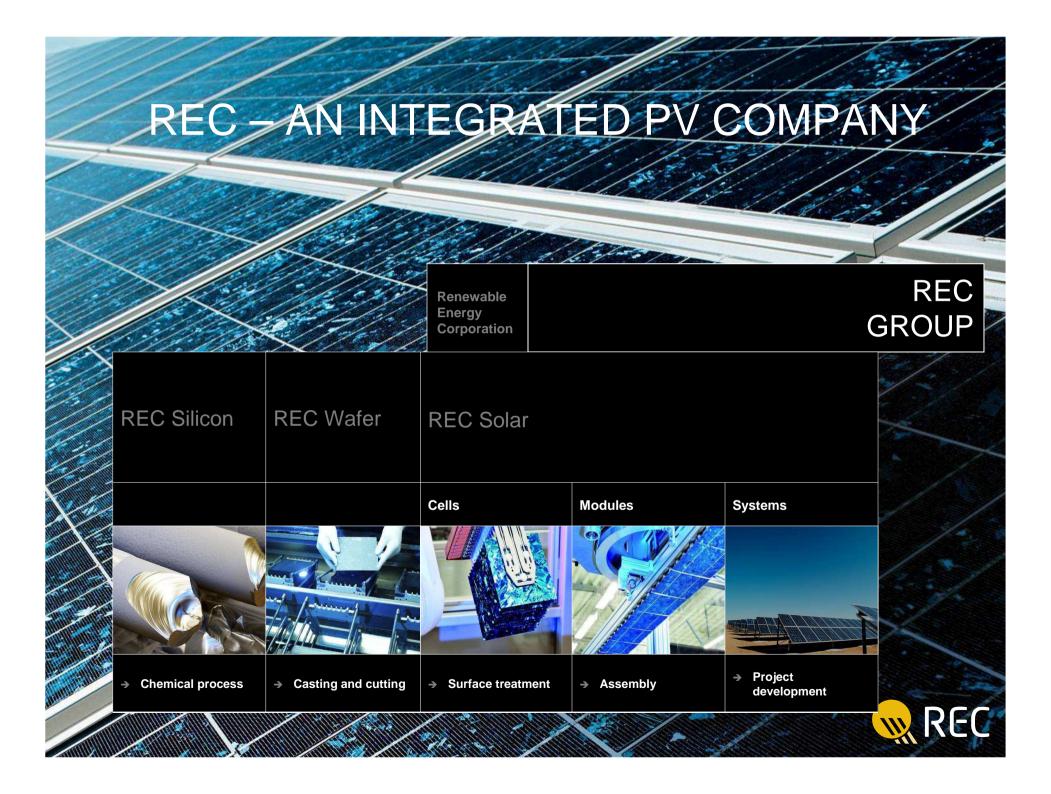
#### The increasing demand for energy

Supply of different energy sources

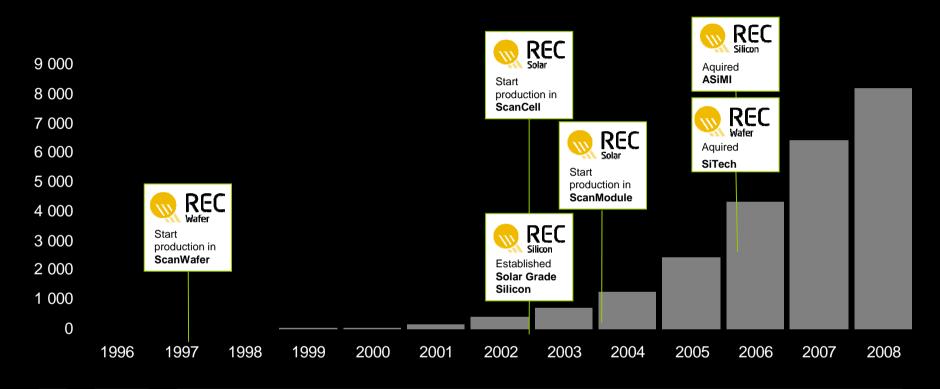








#### REC has outpaced the industry's explosive growth



**Capacity expansions** 

#### Close to 3,5 billion € in expansions

REC Silicon 10,500 MW - REC Wafer 1,875 MW - REC Solar 550 + 590 MW



#### The Singapore project











## Spin-off companies in Glomfjord Industry Park



#### SiPro recycles silicon and various metallic guides to the PV industry

#### **PV APPLICATIONS**

# Silicon recovery Metallic guide recovery Ingol v. le cuta Ingol tops Drima to water saw wire Metallic Canades for book saw any

- MULTI: Roughly 25% of the multi ingot needs to be recycled
- MONO: Roughly 36% of the mono ingot needs to be recycled

• Similar to Mono PV: Roughly 36% of the mono ingot needs to be recycled

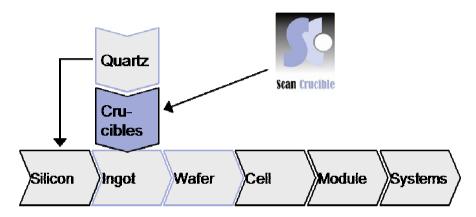
SEMICON. APPLICATIONS

### Si Pro





#### ScanCrucible positioning in the PV industry



- High quality crucibles are critical for the ingot manufacturer to achieve high production yields and competitive ingot quality
- Crucibles represent a key cost driver for ingot manufacturing
- PV ingot manufacturers typically also manufactures wafers. Ingot and wafer manufacturers operate with long term sales contracts and very attractive operating margins
- There are basically two large, global hubs for ingot and wafer manufacturing; Northern Europe and China
- Mono PV cells represented 42% of global PV installations in 2007<sup>1)</sup>









#### Glomfjord Industry Park

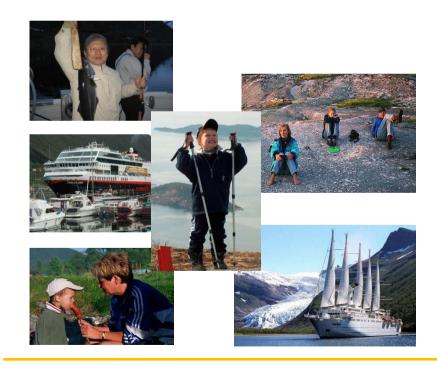














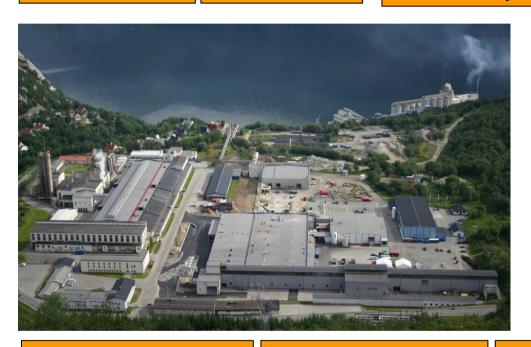


#### **Glomfjord Industry Park**

BIS Production Partner Glomfjord

Yara Norge as Glomfjord

Marine Harvest Norway AS



SiPro as

REC Norway Wafer Glomfjord Mono

REC Norway Wafer Glomfjord Multi

Scan Crucible AS

MoMek AS

**Miras Group AS** 

Libitum AS

Terje HalsanAS

Meløy Næringsutvikling AS

- 1) MNU Meløy Eiendom AS 2) MNU Meløy Innova AS
  - 3) Scan Quarts AS
- 4) MNU Meløy Turistkontor

Meløy BedriftsService as

- 1) Hertz Bilutleie Bodø
  - 2) Løvold avd. Meløy

Nordlandsforskning/HiBo

MoLab as

**ISS Norge as** 



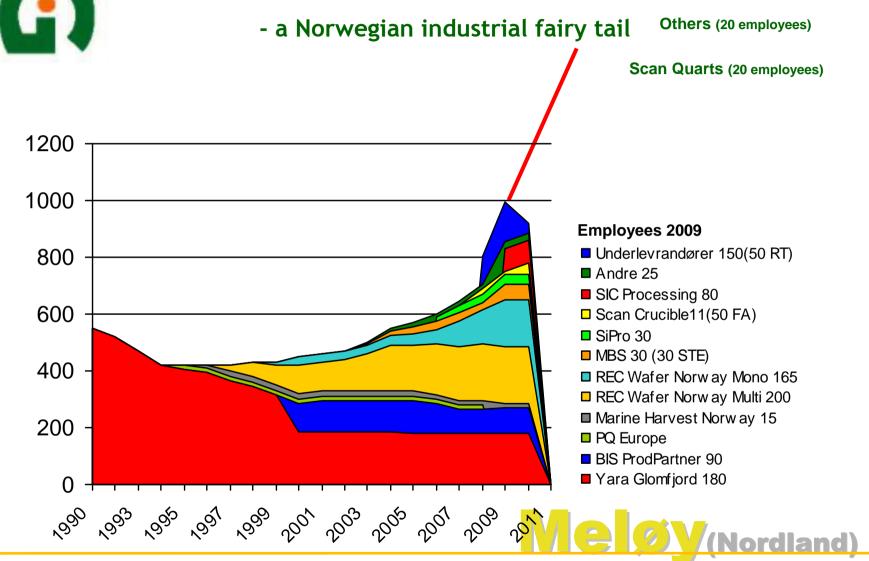
- added value and employees

Company	Employees			Turn over		NOK in 1.000
	2002	2007	2008	2002	2007	2008
Yara Norge Glomfjord	240	180	190	820,0	1.100,0	1.899,0
BIS Production Partner	113	85	96	72,0	75,0	110,0
REC Wafer Norway Multi Glomfjord	167	190	200	415,0	1.400,0	1600,0
SiNor AS	55			34,0		
REC Wafer Norway Mono Glomfjord		90	165		220,0	240,0
PQ Norge Silicates AS	16	13	13	48,0	90,0	70,0
Glomfjord Smolt AS	1			18,5		
Marine Harvest Norway AS	17	15	15	40,0	60,0	52,0
Meløy BedriftsService as	7	29	45	1,7	20,0	29,9
Meløy Næringsutvikling AS	1	5	4	1,5	5,0	4,5
SiPro AS		26	33		20,0	31,6
Scan Crucible AS		4	11			0,4
Andre		10	25		10,0	15,0
SUMMARY	617	647	797	1.450,7	3.000,0	4.038,9
				€ 171,0	€ 353,0	€ 475,0
2000	493			1.050	(NOK)	€ 124,0





#### **Glomfjord Industry Park**

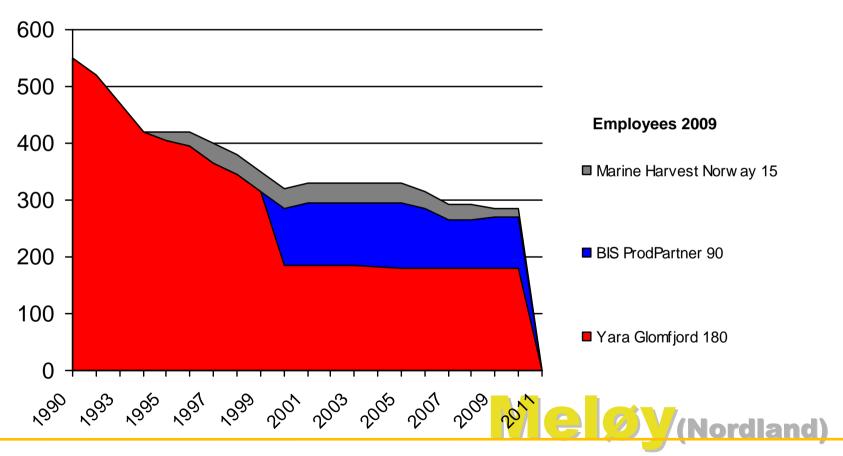


- Glomfjord Industry Park





a Norwegian industrial failure(what could have happened)



- Glomfjord Industry Park