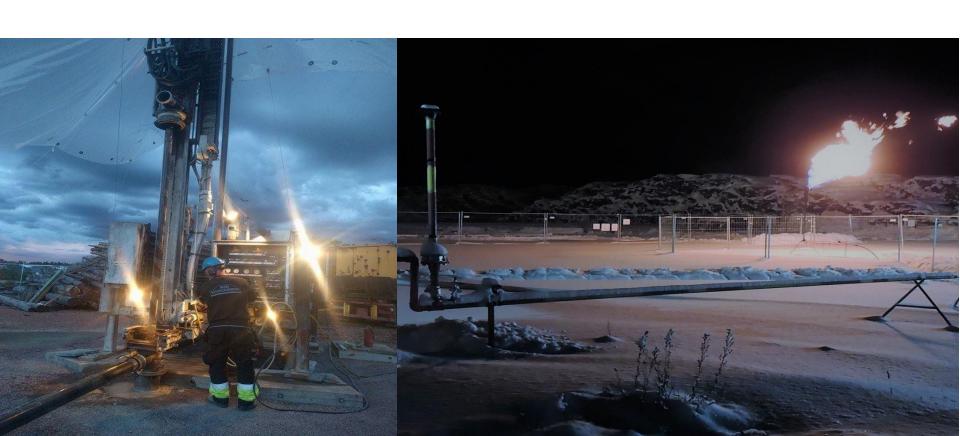


AB Igrene

Corporate presentation





The company - introduction

- AB Igrene is prospecting for gas and oil in the Siljan Meteoritc Impact Ring.
- The company is quoted on Swedish multilateral trading facility, Aktietorget, and been operating since year 2002
- Igrene has made oil & gas discoveries in several locations in the Siljan Ring and secure exploration concessions covering a large part of the area
- Origin and size is currently analyzed by the Igrene team of international scientists and experts
- In parallel to exploration Igrene production testing identified hydrocarbon wells and evaluating best methods in order to commercialize the proven resources



Background – the Siljan Ring

- The Siljan Ring is the largest known impact crater in Europe. It was caused by a major meteorite impact 377 millions years ago.
- The powerful impact and subsequent explosion caused major deep faults reaching depths of 15-20km within a diameter of 100km around the impact area.
- The returning pressure from within the earth led the magma to rise up into the centre of the impact crater.
- The local population has since long back observed gas wells and oil. Oil was produced in the Rättvik area for industrial use in the 19th century
- Intense research is spent in order to understand the theory and mechanisms behind the presence of hydrocarbons

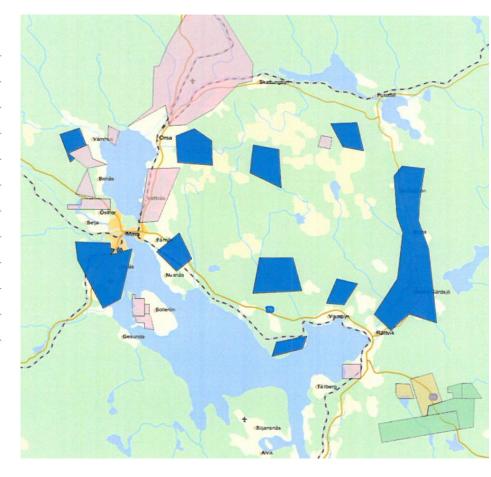


The impact crater of the Siljan Ring in Sweden



Exploration concessions of AB Igrene (publ) The total area of exploration concessions is 21 651 hektar.

Område och reg.nr	Areal hektar	t.o.m	Avser	Avser år
1 Ryssa, Mora, 107/2009	3 766	2018-06-15	Gas	7-9
2 N:a Gulleråsen, Rättvik, 119/2009	8 155	2018-06-15	Gas	7-9
3 Västbjörka, Rättvik och Mora, 121/2009	610	2018-06-15	Gas	7-9
4 Ryssa nr 3, Mora, 198/2011	42	2017-12-06	Gas och olja	4-6
5 Moldberget, Orsa o Rättvik, 46/2016	953	2019-05-27	Gas och olja	1-3
6 Tövåsen, Rättvik, 47/2016	776	2019-05-27	Gas och olja	1-3
7 Röjeråsen, Mora, 54/2016	2 291	2019-05-31	Gas och olja	1-3
8 Slättberg, Orsa, 55/2016	1713	2019-05-31	Gas och olja	1-3
g Grunuberg, Orsa, 56/2016	1 533	2019-05-31	Gas och olja	1-3
10 Färnäs, Mora, 57/2016	1119	2019-05-31	Gas och olja	1-3
11 V:a Våmhus, Mora, 58/2016	693	2019-05-31	Gas och olja	1-3





History – key milestones

- **2002** Mats Budh, Sören Hedberg and Paul Storm starts active prospecting for and research on the potential for geothermal energy in the Siljan ring. .
- 2005 Sweden geological survey SGU presents its interpretation of electromagnetic air mappings and proposes location for test drillings
- 2008 Igrene drills two test holes and finds methane gas and warm water (20°)
- 2009 Significant amount of methane gas was found in two holes.
- Igrene obtains concessions for 18 areas covering an area of 53.000 hectare in the Silian Ring.
- 2010 A core drilling to the depth of 500m southwest of Mora is made.
- Igrene obtains an exploration concession for an additional area of ca 40.000 hectares.
- 2011 Two further core drillings are carried out down to the depth of 500m
- 2012 Igrene initiates a cooperation with the French Institute IFPFN
- 2013 A core drilling was carried out at Vattumyren Mora.
 Significant amounts of gas were found at the interval 170-510 meters. The drillings had to be stopped due to high gas flow and pressure.

- **2014** The company goes public, AB Igrene (publ), and becomes quoted at Aktietorget. . The company now has 500 shareholders.
- 2015 Gas volumes in Mora field was estimated to 0.5-1Bm³.
 The company makes a share issue and uses the capital to finance its first production hole in the Mora area.
- Seismic surveys together with Uppsala University
- ICONOIL Group acquire 5 % ownership in AB Igrene with an option to acquire additional 5%. The option was not exercised.
- The Mining inspectorate in Sweden grants the extension of 3 concessions but denies extension of 7 areas
- 2016 Production test was at "Vattumyren" was interrupted due to safety reason 35-40 Nm³ gas per hour. Methane content 97%
- **2017** Acceleration of production tests at Vattumyren. Well produced 1 000 Nm³ gas per hour at shallow level. Promising to observe migration of free dry gas.
- Core drilling in "Canada field" confirm promising conditions for Hydrocarbons
- 2018 The year of breakthrough? Permit process to be started



After 31 years of exploration we start to see sign of a breakthrough



- 2 promising production wells
- Promising production test, 1 000 Nm³/hr of free gas
- High quality natural gas, 96-97 % methane
- Contact and discussions with potential local customers and politicians
- Permit process under preparation



Estimation of gas volumes in the Mora field

- GRSU estimates that there is 0.5-1bn cubic meter of natural gas in placein the 2 x 2 km field in Mora assuming reservoir rocks down to 690m (the depth of wells until now), gas to liquid ratio (GLR) of 3, and average porosity of 2-3%. Note that so far observed GLR is in the range 18:1 (18 kbm gas per kbm water)
- Should there be reservoir rocks further down due to the force of the meteorite impact, the gas volumes will be larger.
- Also, the current production tests at VM5 points to a higher GLR and contact with free gas
- Furthermore, both GRSU and IFPEN have concluded that the reservoirs are dynamic witch means that gas migration is still taking place



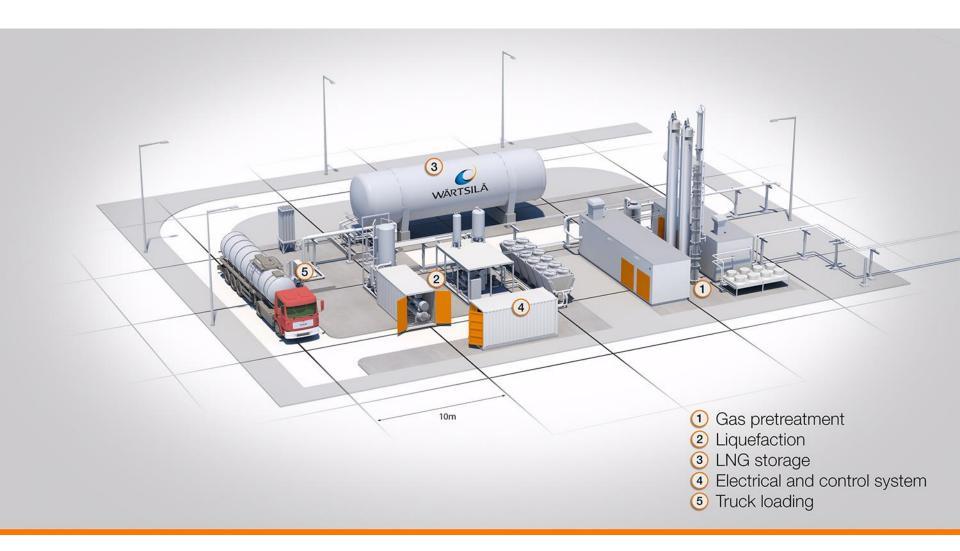


Gas Market in Dala Region

- Major consumer of natural gas is SSAB in Borlänge
 - Currently all gas are imported by ship to Swedish west coast and taken by truck 500 km to Borlänge
- Local energy market
 - Car fuel
 - Heating and electricity
- Base for future energy solutions fuel cells
 - Reforming methane to hydrogen

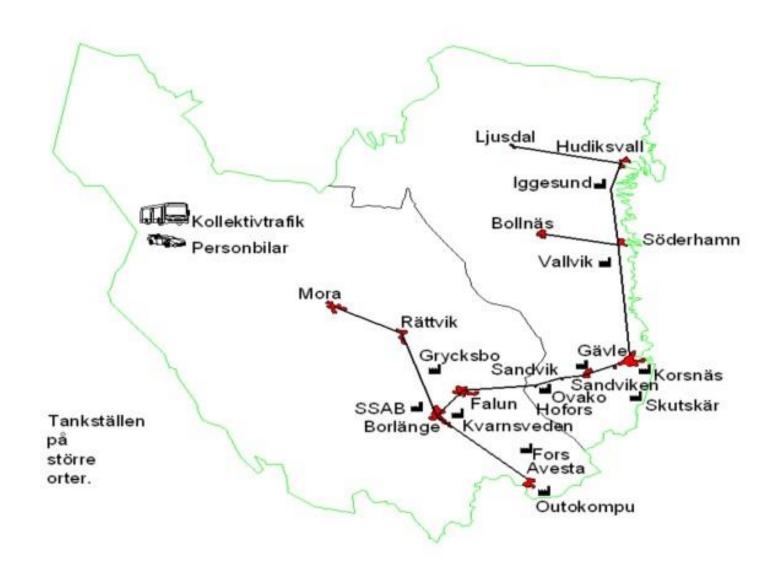


LNG Unit





Possible future grid of natural gas





Our environmental deed

- Offload and take advantage of the uncontrolled diffusion of green house gases from The Siljan ring
 - There is a continuous emission of methane gas from the area. The gas is 30-80 times stronger than carbon dioxide
- Offer local produced natural gas to customers in region
- Offer a more enviro-friendly alternative to carbon, diesel and petrol
 - reduce CO₂ emission with 25 % or more
 - Problems with NOx and small particles get negligible
- Establish the base for the hydrogen society the energy solution of the future



Organization and key people

- The company has a small organization with a CEO, CTO and two field employees
- The Company contracts services and hires labor for various purposes. Additional project employment is contracted for field work.
- The company has engaged an Advisory board consisting of geologist, hydrologists, geochemists, petroleum engineers and professionals with hands-on experience from drilling and field work who are supporting Igrene as needed

Igrene Advisory Board

- Erik Steenken
 Dutch petroleum engineer with extensive experience of gas and oil production.
- Vladimir Kutcherov
 Researcher and professor in the department of Energy Engineering at KTH Royal Institute of Technology in Stockholm and Professor of Gubkin Russian State University for Oil & Gas.
- Christopher Juhlin Professor at Uppsala University Geological Institution.
- Virgile Rouchon, Eric Deville, Valerie Beaumont Geochemists at the Institut Français du Petrole IFPEN.



Igrene supervisory Board

Anders Rydberg	Mats Budh	Karl-Ake Johansson	Anette Berkhahn	Yvonne Vertes von Sikorszky
Chairman	Board member	Board member	Board member	Board member
Background/CV				
Former CEO at Cowi AB, consulting engineering company with extensive business concerning processplants for oil & gas and energi.	Founder and former CEO at Igrene, Skistar and Vasaloppet with extensive network connections inside corporate Sweden.	Mining and metallurgical engineer MSC. 40 years experience from different positions including CEO. Presently active as consultant and director.	25+ years of experience as Management Consultant specialized in strategy, business development and sustainability within oil, gas and power (McKinsey, Arhur D Little)	9 years of experience as Management Consultant at Booz, Allen & Hamilton (France, Germany) and 16 years as investment banker at a Swiss bank



CEO – AB Igrene

Lars Svensson

CEO



Background/CV

Former MD at Borealis AB a leading petrochemical company.
Senior positions at Statoil gas plants in Norway COO at Swedish steel companies
MSC in Process engineering.



Shareholder structure

Shareholder	Number of shares	% Share
Paul Storm	915 457	10.55 %
Mats Budh w. family	598 525	6.90 %
Sören Hedberg with family	352 070	4.06 %
Avanza Pension	322 582	3.72 %
Ragnar Krefting and Krefting Finans AB	317 000	3.65 %
Nordnet Pensionsförsäkring	190 359	2.19 %
Claes Gustafsson	120 680	1.39 %
Erik Sverker Arnestrand	112 560	1.30 %
Total large shareholders	2 929 233	33.76%
Other	5 748437	66.24%
Total	8 677 670	100%

Source: Euroclear 2017 09 29



Financials of AB Igrene (publ)

(Thousand SEK)	2016/2017	2015/2016	2014/2015	2013/2014	2012/2013	2011/2012
Turnover		-	-	-	-	-
Profit after financial items	- 5 942	- 5 983	- 5 363	- 4 501	- 3 977	- 5 476
Total balance sheet	23 682	10 951	13 031	9 619	7 482	11 504
Solidity, %	96	90	84	90	94	96



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