



ASEA's TIDNING

ÄRGÅNG 50
1958

50 ÅR

JUBILEUMSNUMMER

1909 • 1958

From the ASEA archives

Looking back on more than a century in print

ANDREAS MOGLESTUE – The year 2014 saw a prominent focus on history in the pages of ABB Review. Several articles explored the history of different ABB technologies and issue 2/2014 featured a large section dedicated to the history of the journal itself, presenting many gems from the archives.

ABB Review revisited its history in 2014 because that year marked the anniversary of the first publication of one of its predecessor journals, BBC Review. The centenary edition was produced as a collectible issue → 1. The lead article of that issue pointed out that ABB Review has another – even older – predecessor journal. This article takes a closer look at that journal.

ABB Review's celebration of its history is not confined to the centenary. For many years now, the journal has been publishing articles with a history perspective in its "Perpetual Pioneering" series → 7. The editors intend to continue this series in the future by explor-

ASEA, one of ABB's predecessor companies, launched the magazine ASEAs Tidning in 1909.

In 1909 ASEA launched a magazine called ASEAs Egen Tidning¹ (later ASEAs Tidning), which had a mixture of technical papers and more general articles intended for external and internal readerships and was published in Swedish. In 1924 it was joined by a second publication aimed at an external readership. This was ASEA Journal, which was published in English from the beginning.

ing further aspects of the company's rich history.

Many thanks to Mikael Dahlgren for searching for this material in the ASEA archives.

Title picture

Cover of the 50th anniversary issue of ASEAs Tidning (1958)

Footnote

1 Translation: ASEA's Own Journal

When ASEA and BBC merged in 1988, the editorial activities of ASEA Journal and BBC Review were also combined and the journal was renamed ABB Review. The following pages present a selection of items from the pages of ASEA Tidning and ASEA Journal → 2–6.

Andreas Moglestue

ABB Review

Zurich, Switzerland

andreas.moglestue@ch.abb.com

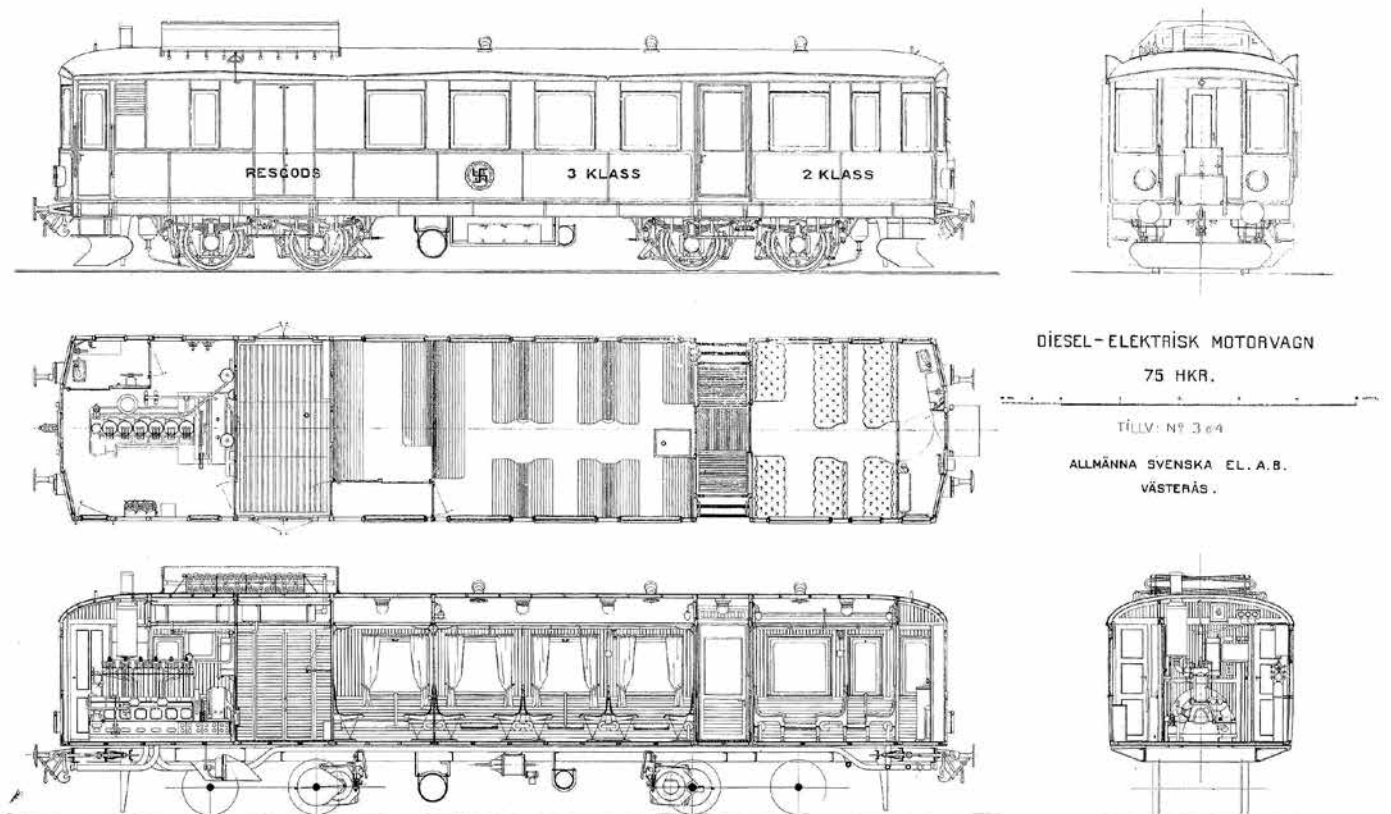
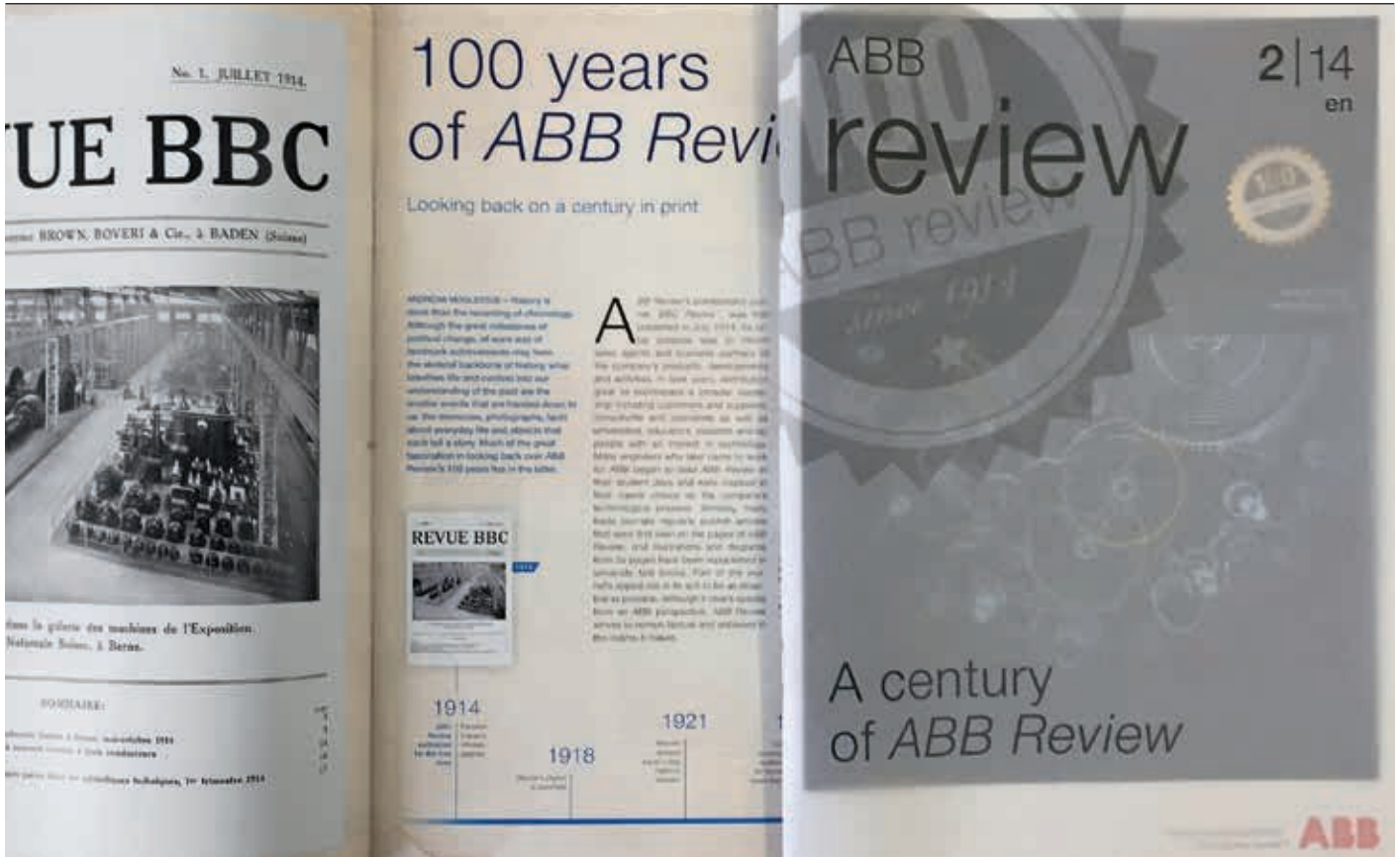
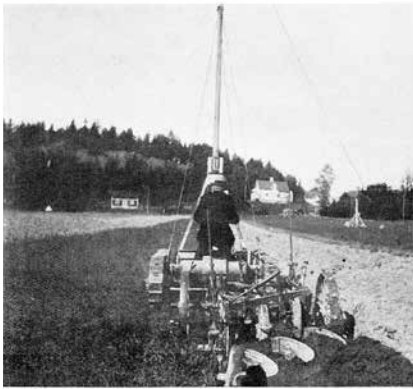


Fig 4.

ELEKTRISK PLÖJNING MED ASEA-MOTOR.



Från plöjningsarbetet å Hamra gård.

Utnyttjandet av den elektriska kraften för utförande av lantbrukets fältarbeten är ett problem, som i samband med lantbrukets elektrifiering länge varit och ännu är föremål för många försök och experiment.

I det system för elektrisk kraftöverföring till rörlig traktor, som Electro-Agricultur A. B. i Stockholm under de senaste åren utarbetat, äro tre huvudelement erforderliga: a) transformatorn, som medelst en vanlig stolpkontakt står i förbindelse med högspänningsledningen, b) kabelvagnen, som medelst isolerad kabel mottager strömmen från transformatorn, samt genom reglerbar blank luftledning överför den vidare till c) traktorn eller "Electro-tanken", som bogserar jordbearbetningsmaskinen (plog, harv, gödsel-spridare etc.).

Vår bild är tagen vid plöjningsarbete å Hamra gård utanför Stockholm med en dylik traktor av tanktyp, försedd med motoro. apparatutrustning av Aseas tillverkning.

Utkommer varannan månad.

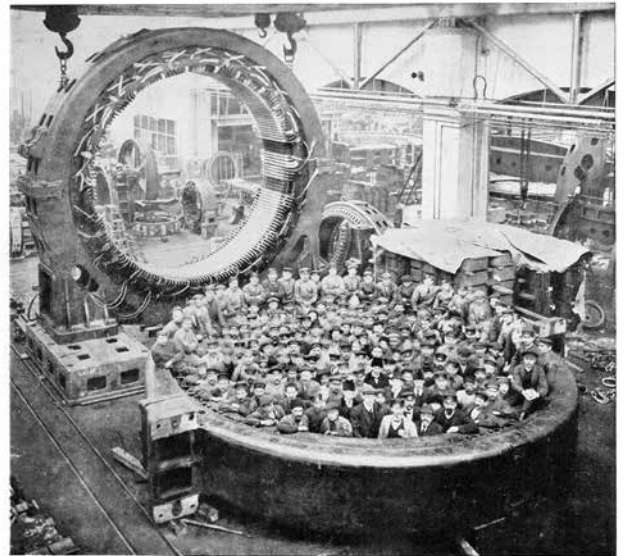
Prenumeration hos redaktionen.

ÅRGÅNG 9.
1917.

Ansvarig utgivare: J. S. EDSTRÖM.
Redaktör: A. W. HENNING.

APRIL
N:o 2.

ETT PAR AV ASEA:s MASKINJÄTTAR I EMAUSVERKSTADEN.



Den liggande statorn, som rymmer 130 personer, är för en av generatorerna till Untravärken. Den stående statorn för Trollhättans kraftverk.

Omskar Ni en färdig radiomottagare, erhåller Ni den komplett uppsatt med antenn och tillbehör fortast och bäst genom oss.

Bygger Ni själv Eder mottagare, följ då våra kopplings-schemor och anvisningar.

Vill Ni utbygga Eder lamp- eller kristallmottagare, använd Eder då av våra speciella förstärkare.

Ämnar Ni anordna radiomottagning i en samlingslokal eller utomhus, vänd Eder då till vår radioavdelning för att få lämpligaste apparat och högtalare.

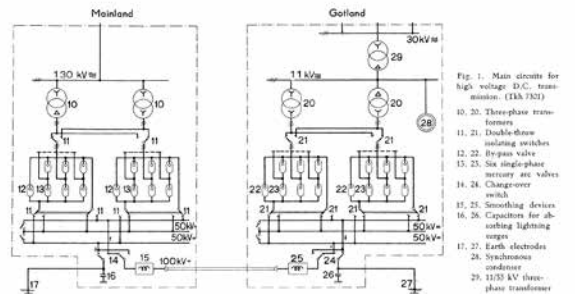
Kataloger och upplysningar erhåller Ni antingen direkt från oss eller från våra filialer.

ASEA
AVDELNING FÖR INSTALLATIONSMATERIEL
KLARABERGSGATAN 21, STOCKHOLM

Västervik 1924. Västmanlands Allhändas A.-B. i Tryck

ASEA JOURNAL

1954



The Converter Transformers

As in the case of the other plant components which are connected to the high voltage direct current, the valve windings of the converter transformers are insulated according to an A.C. standard for 80 kV nominal voltage. The clearance between the A.C. phases belonging to the same valve group is however designed according to an A.C. standard for 40 kV.

The converter transformers in Västervik station are three-winding transformers (1 and 3 in

fig. 3). The windings for connecting to the 130 kV network are star-connected with isolated star-point. The valve winding on transformer 1 is star-connected. As a consequence of this phase shifting of the valve windings by 30 degrees, the two series-connected six-pulse converters thus affect the A.C. and D.C. networks in a similar manner to that of a twelve-pulse converter. The third transformer winding is supplied with an on-load tap-changer and feeds a series transformer (2 and 4 in fig. 3).

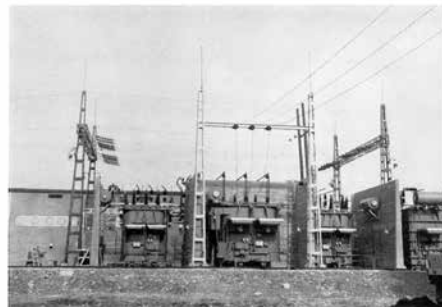
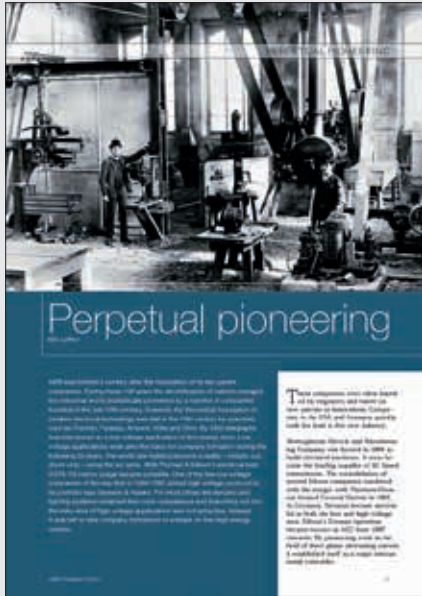


Fig. 3. The converter station on Gotland. From left to right: Converter transformer for valve group 2, network transformer, converter transformer for valve group 1, D.C. reactor (40/2)



Most articles in ABB Review look at present, emerging or future products, technologies and trends. But the journal has not forgotten the company's past. It is often through the exploration of history that present developments are explained and achievements placed in context. For many years, ABB Review has published its ongoing history series, "Perpetual pioneering," which is dedicated to the histories and background stories of ABB technologies or fields of activity. An overview of articles published so far is provided below.

PDFs of these articles are also available for download from www.abb.com/abbreview

Perpetual pioneering

(lead article of series)

Nils Leffler, ABB Review 1/2007, pages 73–74

Thirty years in robotics

Brian Rooks, ABB Review Special Report

Robotics, 2005, pages 6–9

The circuit breaker

A showcase of industrial product development

Fritz Pinnekamp, ABB Review 1/2007,

pages 75–78

ABB turbochargers – history and milestones

Malcolm Summers, ABB Review 2/2007,

pages 85–90

Transforming history

The ABB power transformer story

Thomas Fogelberg, Åke Carlsson,

ABB Review 3/2007, pages 80–86

100 years

ABB celebrates a century of presence in China

Franklin-Qi Wang, ABB Review 4/2007,

pages 74–77

125 years running

From the very beginning, ABB has been a pioneer in electrical motors and machines

Sture Eriksson, ABB Review 1/2008,

pages 81–86

Success story

Looking back at ABB's contribution to industrial robotics

David Marshall, Christina Bredin,

ABB Review 2/2008, pages 56–62

The winning chips

History of power semiconductors at ABB

Hansruedi Zeller, ABB Review 3/2008,

pages 72–78

HVDC

ABB – from pioneer to world leader

Gunnar Asplund, Lennart Carlsson,

ABB Review 4/2008, pages 59–64

Compact and reliable

Decades of benefits: Gas-insulated switchgear from 52 to 1,100 kV

Lothar Heinemann, Franz Besold,

ABB Review 1/2009, pages 92–98

High-voltage bushings

100 years of technical advancement

Lars Jonsson, Rutger Johansson,

ABB Review 3/2009, pages 66–70

Electrifying history

A long tradition in electric railway engineering

Norbert Lang, ABB Review 2/2010,

pages 88–94

From mercury arc to hybrid breaker

100 years in power electronics

Andreas Moglestue, ABB Review 2/2013,

pages 70–78

The world of high-voltage power

A concise history

Fredi Stucki, ABB Review Special Report

High-voltage products, 2013, pages 6–10

In harmony

Looking back on a fruitful history of co-development of high power rectifiers and semiconductors

ABB Review 1/2014, pages 65–70

100 years of ABB Review

Looking back on a century in print

Andreas Moglestue, ABB Review 2/2014,

pages 7–23

Rise of the robot

Celebrating 40 years of industrial robotics at ABB

David Marshall, Nick Chambers,

ABB Review 2/2014, pages 24–31

60 years of HVDC

ABB's road from pioneer to market leader

Andreas Moglestue, ABB Review 2/2014,

pages 32–41

Semiconductor generations

ABB looks back on 60 years of progress in semiconductors

Christoph Holtmann, Sven Klaka,

Munaf Rahimo, Andreas Moglestue,

ABB Review 3/2014, pages 84–90

Entering a new epoch

A brief history of the electric power supply

Jochen Kreusel, ABB Review 4/2014,

pages 46–53

Distribution evolution

Medium-voltage distribution technology is a key part of the power network

Gerhard Salge, ABB Review Special Report

Medium-voltage products, 2014, pages 7–10

High impact

60 years of HVDC has changed the power landscape

Bo Pääjärvi, Mie-Lotte Bohl, ABB Review

Special Report 60 years of HVDC, 2014,

pages 12–17

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Looking back on more than a century in print

Andreas Moglestue, ABB Review 1/2015,

pages 63–66