

AARSLEFF GROUP 2022

# INFRASTRUCTURE AND BUILDINGS FOR MODERN SOCIETIES



AARSLEFF





# THE YEAR IN BRIEF FINANCIAL HIGHLIGHTS

The aarsleff Group was founded by Per Aarsleff in 1947.

Aarsleff is listed on Nasdaq Copenhagen A/S. All A shares are owned by the foundation Per og Lise Aarsleffs Fond.

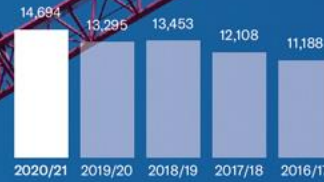
EBIT  
DKKm **648**



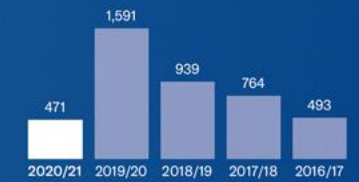
Order backlog  
DKKm **19,981**



Revenue  
DKKm **14,694**



Cash flow from operating activities  
DKKm **471**



Revenue growth  
**10.5%**  
of this 9.7% organic growth

ROIC (after tax)  
**16.3%**

Number of employees  
**7,658**

## Markets

- Denmark
- The UK
- Finland
- Greenland
- The Netherlands
- Iceland
- Latvia
- Lithuania
- Norway
- Poland
- Slovakia
- Sweden
- Czech Republic
- Germany



# Present in Ukraine for more than 25 years

## List of projects performed:

No.	Programme & Project Description	Financed	Place	Period
1	«Technical Assistance Programme for Maintenance and Service of Public Utility within Transmission System for Water Supply and Sewage Pipeline System»	DEPA	Yalta, Sevastopol	April, 1997 – August, 1999
2	«Supply of construction machinery and equipment to Vodokanals of Zakarpatsky region»	DEPA	Zakarpatsky region: Uzhgorod, Mukachevo, Beregovo, Hust etc.)	October, 1998 – June, 2000
3	«Rehabilitation of Kiev Central District Heating Network»	DEPA	Kyiv	December, 1998 – February, 2000
4	«No-dig rehabilitation of the main sewage pipeline of Kiev City»	DEPA & Kiyv City	Kyiv	June, 1998 – May, 2001
5	«Kyiv Vodokanal Water Metering programme»	DEPA	Kyiv	December, 2000 – February, 2002
6	«Procurement of Goods and Associated Services for Water Mains Rehabilitation in the City of Zaporizhzhia»	EBRD	Zaporizhzhia	May, 2001 – October, 2003
7	«Procurement of Goods and Associated Services for the Pumps and Electric Motors Replacement, Installation of Automatic Monitoring and Control Systems at Operating Pumping Stations of Zaporizhzhia»	EBRD	Zaporizhzhia	July, 2001 – July, 2004
8	«Demo Project for Rehabilitation by Polyethylene Pipes in Kyiv, Ukraine. Procurement of Equipment and Materials for No-Dig Rehabilitation»	DEPA	Kyiv	January, 2002 – December, 2002

9	“Energy Saving in Sewage Pumping Stations and Establishment of Revolving Fund. Procurement of Equipment and Materials.”	DEPA	Donetsk region: Druzhkovka, Dokuchaievsk, Sloviansk	June, 2003 – October, 2004
10	“Lviv Water and Wastewater Project. Establishment of Pressure Zones, Network Piping and Rehabilitation of Pumping Stations”.	WB	Lviv	April, 2004 – December, 2007
11	“Upgrade of three (3) water supply pumping stations”	WB	Cherkassy	May, 2011 – June, 2013
12	“Replacement of motors and installation of frequency converters at two pumpsets of 2nd rise pump station”	WB	Kremenchug	June, 2011 – April, 2012
13	“Completion and rehabilitation of deep tunnel collector section from MH No.1 to MH No.2”	WB	Odessa	October, 2012 – May, 2014
14	<b>Project Name: Development of the Water Supply and Wastewater System in the City of Mykolayiv</b> <b>Contract: Rehabilitation and Efficiency Improvement of the Second Stage Pumping Stations Mykolayivvodokanal.</b>	EIB	Mykolayivv	April, 2021 – up to now

DEPA – Danish Environment Protection Agency

EBRD – European Bank on Reconstruction and Development

WB -World Bank

EIB – European Investment Bank

# Focus & recommendations for after war activities (critical infrastructure)

## Focus and priority to the critical infrastructure like:

- 1) Water and sewage supply and treatment
- 2) Electricity & heating
- 3) Railways
- 4) Bridges
- 5) Roads and buildings

From our experience, we recommend the Multilateral financing institutes and other financing sources to make priority of the critical infrastructure and also divide the possible financing in 3 groups:

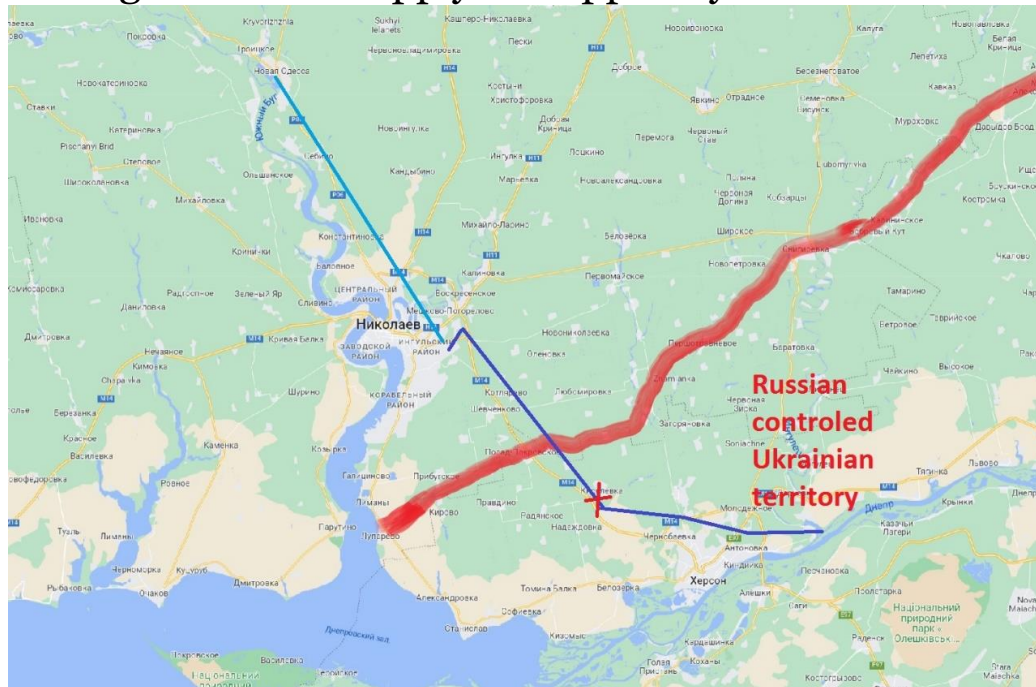
- 1) Emergency packages (mainly equipment supply, installation and running in). Fast tender and implementation.
- 2) More complicated infrastructure projects to be performed after Yellow FIDIC (Design & built). Fast tendering procedure.
- 3) Large and complicated infrastructure projects with involvement of consultants, including feasibility studies and tender documents.

Some of the projects can be a combination and also run parallel. Lets give an example:



# Drinking Water Supply Situation in Mykolayiv

Existing raw water supply is stopped by hostile actions.



Alternative raw water supply sources are being investigated and suggested by MVK both as emergency and permanent solution.

# Example of combined emergency project for water treatment in Mykolaiv

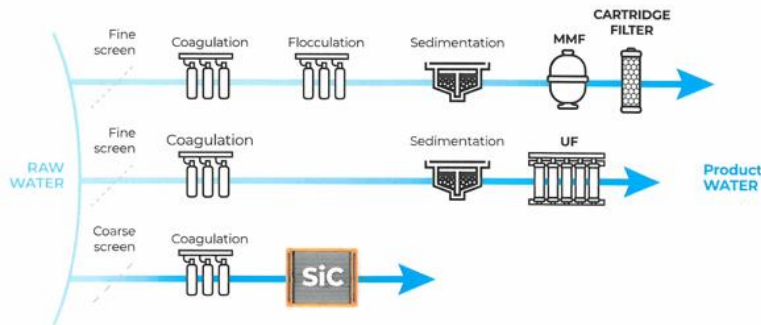
## Selection of raw water source(s):

Existing supply (Occupied territory)

Zoria-Mashproekt raw water pumping station situated in Southern Bug River

Existing wells (maybe with additional new wells)

## Necessary treatment depending of raw water source



## Emergency objective (capacity) of drinking water and technical water and permanent solution

- First delivery of container based SiC and reverse osmosis modules.  
Shall allow for production of emergency capacity of drinking water and can used in the permanent treatment solution.
- Parallel feasibility study and tender documents for a permanent location and buildings.  
Emergency equipment delivered and installed to be in co-operated in the future project and treatment plant.

Result is quick action and later permanent solution.

Emergency solution (1500 m<sup>3</sup>/day) for Southern Bug raw water supply could be (Container based modules):

Screen – Ozonation – Coagulation and lamella separation – SiC UF membrane – Activated carbon – reverse osmosis - remineralization

The water would be drinking water quality in accordance with DSanPiN 2.2.4-171-10.