

WE DELIVER FOR
POWER
&
ENERGY

LEADERS

Volga  Dnepr

WE WORK WITH WORLD LEADERS

For over 28 years, Volga-Dnepr Group has been advancing the world of air logistics, enabling our global customers to achieve fast, secure and cost efficient transportation solutions, even for their most complex logistics challenges.

Our international reputation has been built on helping our customers to plan effectively, respond quickly and, most importantly of all, keep the promise they have made to their own customers. That's why so many of the world's leading companies choose Volga-Dnepr Group as their transportation and logistics partner.

The cargoes we move, for example, help the energy sector provide power to communities across the

globe. We deliver satellites that increase and improve international communications. We help manufacturers and growers ensure a sufficient supply of products and produce to consumers across the globe. We move heavy construction equipment used to support vital infrastructure projects in both the developed and developing worlds. We are also first to react when a man-made or natural disaster endangers lives.



>1,200

airports in 190 countries
served by the Group



>5,000,000

tonnes of cargo carried
globally since 1990

OUR GROUP OF COMPANIES

Volga-Dnepr Group consists of more than 20 companies in nine countries. At the heart of the Group are two core cargo services:

CHARTER OPERATIONS

Global air cargo charter services are provided to the Group's customers by Volga-Dnepr Airlines – the world's largest transporter of outsize and heavyweight air cargo, and the provider of end-to-end engineering and logistics solutions. The Group's air charter capability also includes services using the Ilyushin Il-76TD-90VD, Boeing 747 and B737 freighters in its fleet to offer international customers the most efficient aircraft solution for every charter requirement.

Supporting businesses: Certified Aircraft Maintenance, Repair & Overhaul Centres, Insurance Company, Trucking Services and Volga-Dnepr International Training Centre.

SCHEDULED OPERATIONS

International scheduled cargo services are delivered by AirBridgeCargo Airlines and Atran airlines onboard Boeing 747F and Boeing 737F between Russia, Asia, the Middle East, Europe and North America. Strict on-time performance facilitates seamless transportation, guaranteeing transport connections between continents, countries, and cities.

AirBridgeCargo's fleet consists of 18 Boeing 747 freighters, whereas Atran has three Boeing 737 freighters in operation.

The combined network of both carriers covers more than 40 destinations worldwide, with all flights operated into international cargo hubs, which feature modern equipment, allowing for efficient, seamless, and safe handling of any type of cargo.

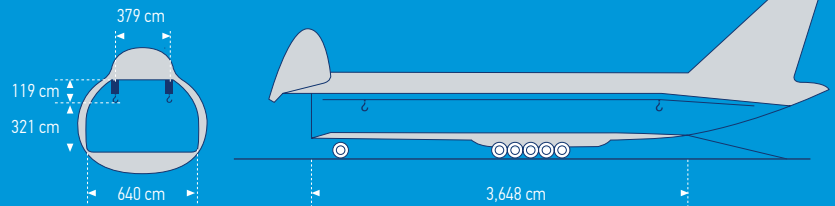
OUR FLEET

AN-124-100

✈ x 12

< **120t**
MAX PAYLOAD

- CARGO COMPARTMENT DIMENSIONS 36.5 X 6.4 X 4.4M
- THE AN-124-100 "RUSLAN" IS THE WORLD'S LARGEST SERIES-PRODUCED RAMP AIRCRAFT
- VOLGA-DNEPR IS THE BIGGEST INTERNATIONAL AN-124-100 OPERATOR IN THE WORLD

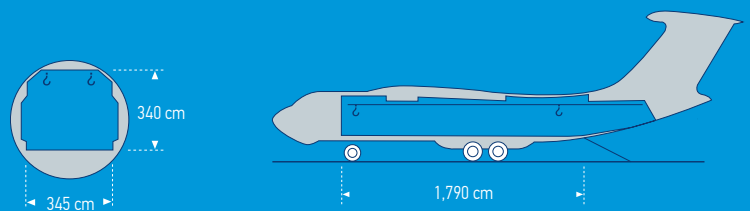


IL-76TD-90VD

✈ x 5

< **50t**
MAX PAYLOAD

- CARGO COMPARTMENT DIMENSIONS 20 X 3.45 X 3.4M
- THE AIRCRAFT IS FULLY COMPLIANT WITH ICAO'S STANDARDS AND IS APPROVED FOR GLOBAL OPERATIONS

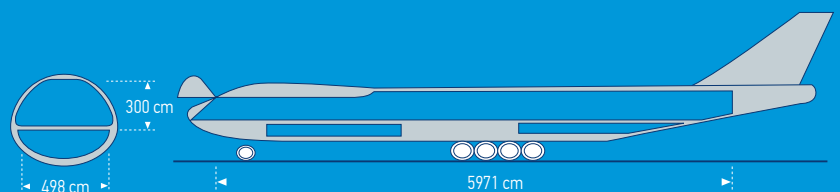


BOEING 747

✈ x 18

46 < **139t**
PALLET CAPACITY MAX PAYLOAD

- IN ADDITION TO SEVEN B747-400 FREIGHTERS, THE GROUP HAS INVESTED IN EIGHT NEXT GENERATION B747-8F, THE MOST ADVANCED CARGO AIRCRAFT OF ITS TYPE EVER BUILT BY BOEING
- THE 747 IS ESPECIALLY WELL-SUITED FOR SHIPMENTS REQUIRING STRICT TEMPERATURE SUSTAINABILITY

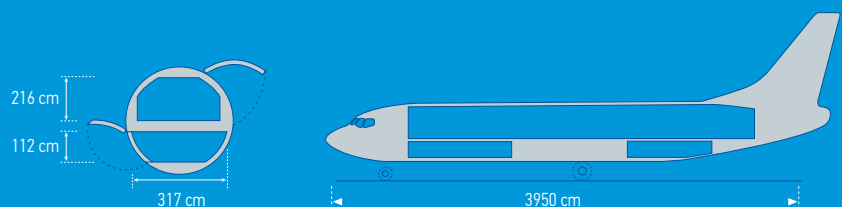


BOEING 737

✈ x 3

10 < **20t**
PALLET CAPACITY MAX PAYLOAD

- THE GROUP'S THREE BOEING 737 FREIGHTERS PROVIDE REGIONAL CARGO LIFT AND ARE USED AS PART OF VOLGA-DNEPR'S "CARGO SUPERMARKET" SERVICE OFFERING ALONGSIDE THE REST OF THE FLEET



WE WORK WITH LEADERS IN ENERGY & POWER

SINCE 1990, THE ENERGY AND POWER INDUSTRY
HAS REPRESENTED ONE OF VOLGA-DNEPR GROUP'S
BIGGEST CUSTOMER SECTORS



> **4,000**

flights for energy and
power customers to date



> **238,000**

tonnes of cargo
delivered

THE PROCESS OF MOVING YOUR CARGO

Once we receive your request, the delivery of your cargo is managed
through 8 key stages:

- 1** Development of logistics solutions
- 2** Load planning
- 3** Commercial & navigation checks
- 4** Cost calculation
- 5** Optimal option agreement & contract
- 6** Preparation of your cargo
- 7** Transportation
- 8** Post flight liaison

OUR EXPERTS ARE READY TO ASSIST YOU 24/7

POWER GENERATION

- Generator rotors
- Heavy-duty gas turbine (HDGT) rotors
- Industrial gas turbines (IGT)
- Aero-derivative gas turbines (AGT)
- Diesel generator sets
- Mobile gas turbine packages
- Hydroturbine runners
- Wind turbine components
- Equipment and supplies for nuclear power plants



POWER TRANSMISSION AND DISTRIBUTION (T&D)

- Transformers
- Power cables
- Electric components
- Mobile substations



OTHER POWER PLANT COMPONENTS

- Valves
- Heat exchangers
- Pumps
- Spare parts



ENERGY & POWER GLOBAL EXPERTISE

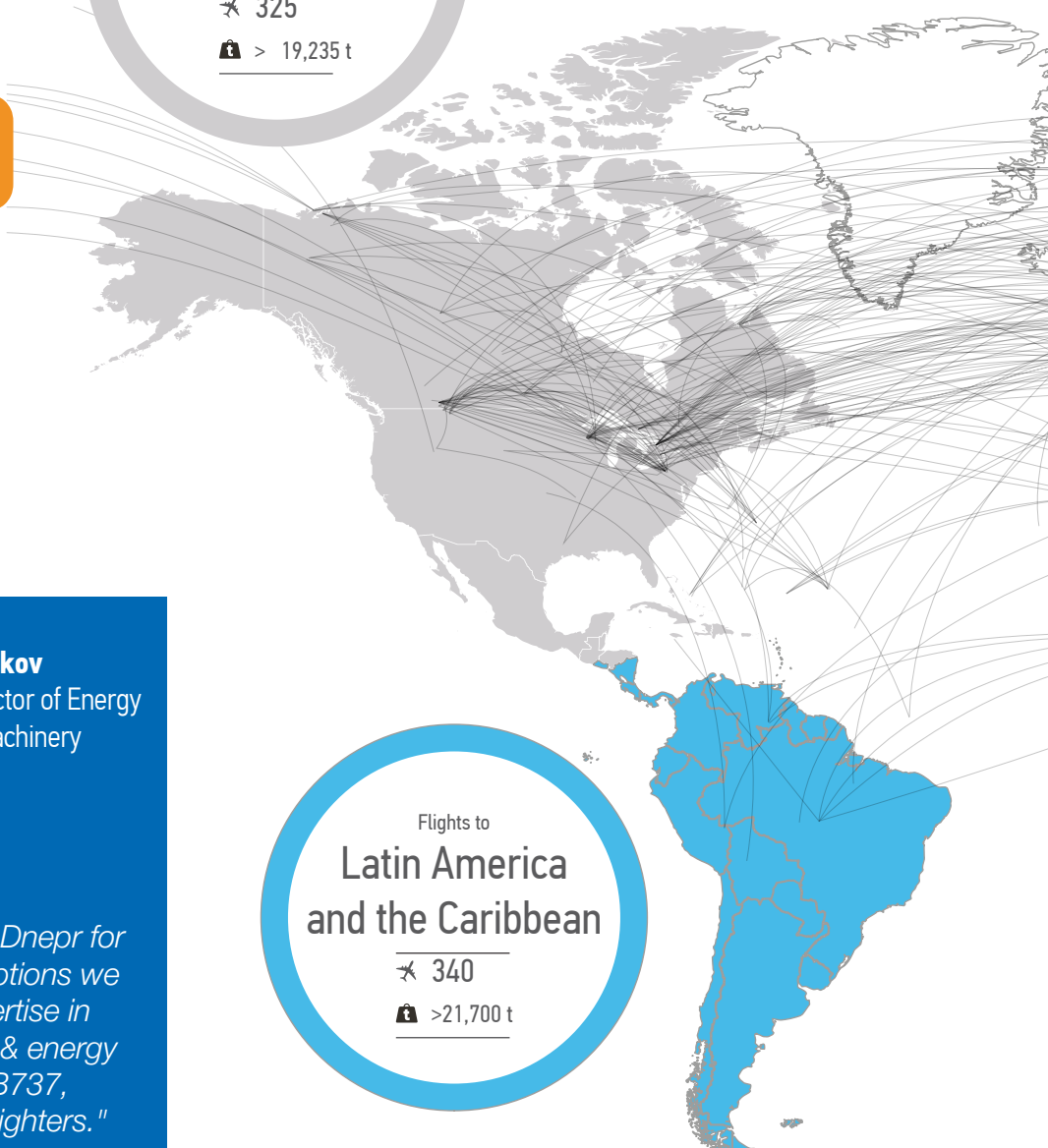
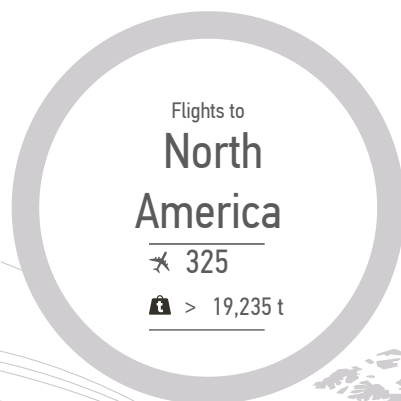
VOLGA-DNEPR GROUP E&P OPERATIONS TO DATE

4,000

✈️ FLIGHTS*

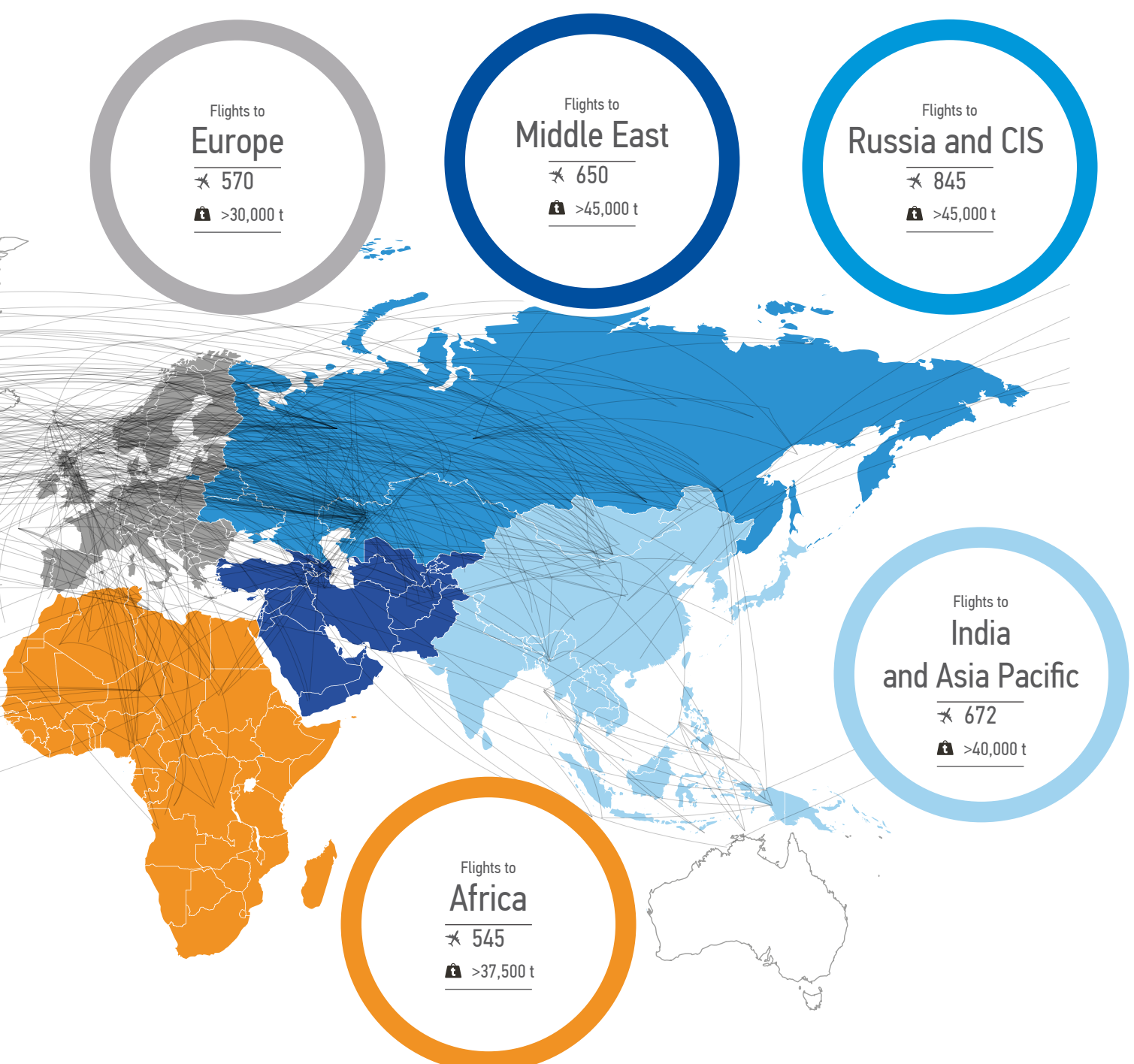
238,000

📦 TONNES CARRIED*



Vasily Zhukov
Global Director of Energy
& Heavy Machinery

"Customers come to Volga-Dnepr for reliability and the different options we can provide due to our expertise in the transportation of power & energy equipment and our fleet of B737, B747, IL-76 and An-124 freighters."



* Excluding scheduled cargo operations.

**SINCE 1990, THE WORLD'S LEADING
ENERGY & POWER COMPANIES HAVE
ENTRUSTED VOLGA-DNEPR GROUP WITH
THEIR MOST IMPORTANT AND COMPLEX
SUPPLY CHAIN CHALLENGES**

Siemens

APR Energy

Power Machines

Aggreko

Voith Hydro

Mitsubishi Hitachi

Power Systems

Mitsubishi Heavy

Industries

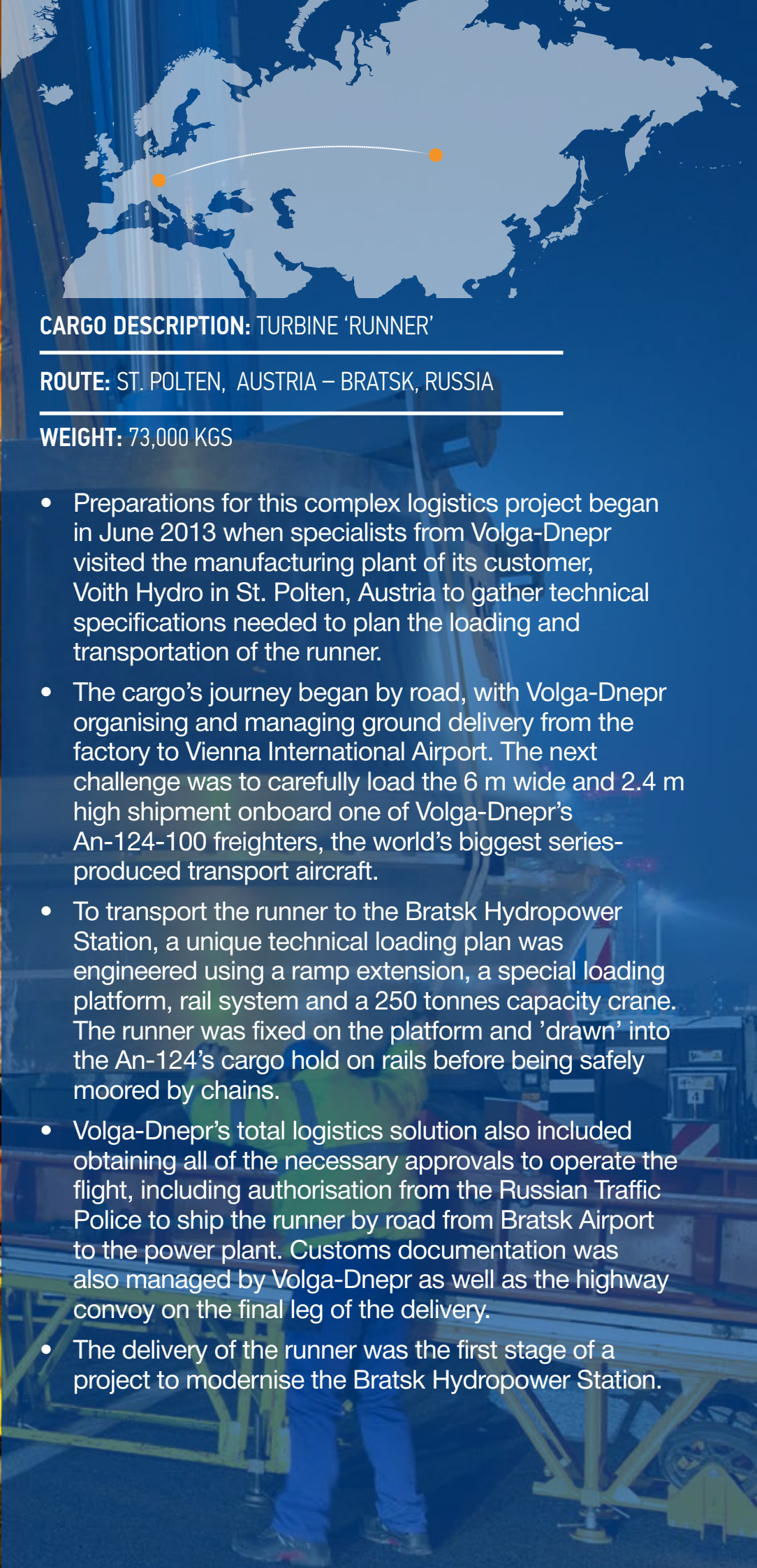




CASE STUDY 1

TURBINE 'RUNNER'





CARGO DESCRIPTION: TURBINE 'RUNNER'

ROUTE: ST. POLTEN, AUSTRIA – BRATSK, RUSSIA

WEIGHT: 73,000 KGS

- Preparations for this complex logistics project began in June 2013 when specialists from Volga-Dnepr visited the manufacturing plant of its customer, Voith Hydro in St. Polten, Austria to gather technical specifications needed to plan the loading and transportation of the runner.
- The cargo's journey began by road, with Volga-Dnepr organising and managing ground delivery from the factory to Vienna International Airport. The next challenge was to carefully load the 6 m wide and 2.4 m high shipment onboard one of Volga-Dnepr's An-124-100 freighters, the world's biggest series-produced transport aircraft.
- To transport the runner to the Bratsk Hydropower Station, a unique technical loading plan was engineered using a ramp extension, a special loading platform, rail system and a 250 tonnes capacity crane. The runner was fixed on the platform and 'drawn' into the An-124's cargo hold on rails before being safely moored by chains.
- Volga-Dnepr's total logistics solution also included obtaining all of the necessary approvals to operate the flight, including authorisation from the Russian Traffic Police to ship the runner by road from Bratsk Airport to the power plant. Customs documentation was also managed by Volga-Dnepr as well as the highway convoy on the final leg of the delivery.
- The delivery of the runner was the first stage of a project to modernise the Bratsk Hydropower Station.

CASE STUDY 2

ROTOR TO MUMBAI





CARGO DESCRIPTION: ROTOR

ROUTE: LEIPZIG, GERMANY – MUMBAI, INDIA

WEIGHT: 50,000 KGS



- Siemens utilised the door-to-door expertise of Volga-Dnepr Group to manage the movement of a 50-tonne rotor to Mumbai, India.
- To plan for the transportation, an engineering study was conducted to confirm it was technically possible to carry the cargo onboard one of Volga-Dnepr's An-124-100 freighters.
- Volga-Dnepr's Engineering & Logistics Centre (ELC) experts managed the transportation of the rotor from its manufacturing plant in Muelheim, Germany, to Leipzig/Halle Airport, taking care of all the arrangements for trucking, including obtaining special road permits.
- At the departure airport, ELC was responsible for all of the essential procedures prior to commencing the loading. This included terminal cargo handling and customs services. In Mumbai and Leipzig, members of the ELC team also organised mobile cranes for loading and offloading the cargo.
- The charter flight to India was contracted under the Ruslan International An-124 joint venture.

CASE STUDY 3

GAS INSULATED SWITCHGEAR EQUIPMENT





CARGO DESCRIPTION: GAS INSULATED SWITCHGEAR EQUIPMENT TO PROTECT GENERATING EQUIPMENT

ROUTE: DUBAI – HARARE

WEIGHT: 79,050 KGS

- Glasgow-based power provider Aggreko's success is partly based on its ability to deploy modular, mobile power equipment at short notice. So, when it won a contract to supply a 200 MW diesel-fueled power plant to a client in Zimbabwe, it turned to the logistics specialists at Volga-Dnepr Gulf to ensure it was able to meet the tight delivery deadline.
- This 79,050 kg cargo of compact gas-insulated switchgear equipment is used to safely connect power generating equipment to the national grid, helping to prevent short circuits and damage to the generators. Transported from Dubai to Zimbabwe's capital, Harare, the shipment contained nine pieces of up to 4 meters in height.
- To expedite the delivery process, Volga-Dnepr supported the Ruslan International flight with a full logistics solution, commencing with the recommendation to modify the frames holding the switchgear equipment to ensure the cargo could be loaded and unloaded safely.
- Aggreko, also contracted Volga-Dnepr to manage the collection of the cargo from the Jebel Ali Free Zone in Dubai and to organise two 50-tonne capacity cranes to load the cargo safely onboard the An-124-100 freighter.
- In addition, the Volga-Dnepr team took care of all export documentation, customs clearance, airport terminal cargo handling and airport permits for the cranes. With the support of the Dubai World Central (DWC) airport authority, Ruslan International and Volga-Dnepr completed all of the required processes within five days.

CASE STUDY 4

POWER GENERATORS TO NIGERIA



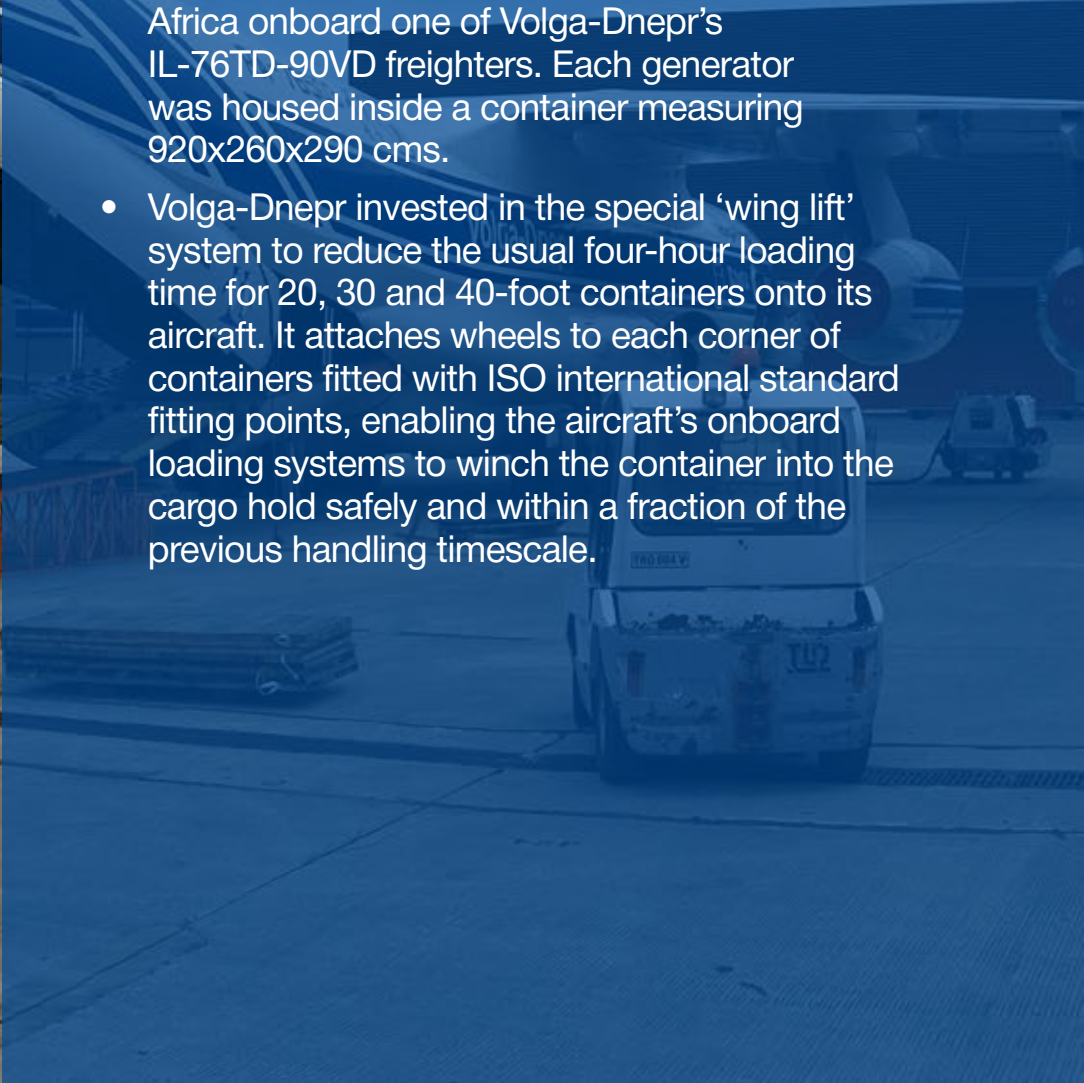


CARGO DESCRIPTION: TWO POWER GENERATORS

ROUTE: CHÂLONS, FRANCE – PORT HARCOURT, NIGERIA

WEIGHT: 79,050 KGS

- Volga-Dnepr Airlines transported two power generators to Port Harcourt, Nigeria, using its new ‘wing lift’ system to reduce the loading time for the large containers being used to transport the cargo to less than 30 minutes.
- This delivery of a 19-tonne gas-powered standby generator and a 17.6-tonne diesel generator was on behalf of GEODIS Industrial Projects UK.
- The generators were transported from Châlons Vatry Airport in Northeastern France to West Africa onboard one of Volga-Dnepr’s IL-76TD-90VD freighters. Each generator was housed inside a container measuring 920x260x290 cms.
- Volga-Dnepr invested in the special ‘wing lift’ system to reduce the usual four-hour loading time for 20, 30 and 40-foot containers onto its aircraft. It attaches wheels to each corner of containers fitted with ISO international standard fitting points, enabling the aircraft’s onboard loading systems to winch the container into the cargo hold safely and within a fraction of the previous handling timescale.



CARGO SUPERMARKET IN ACTION

VOLGA-DNEPR'S UNIQUE 'CARGO SUPERMARKET' CONCEPT IS DESIGNED TO OFFER CUSTOMERS THE MOST EFFICIENT LOGISTICS SOLUTION FOR EVERY SHIPMENT, TAKING INTO ACCOUNT THE CHARACTERISTICS OF THE CARGO, THE ORIGIN AND DESTINATION POINTS, THE DELIVERY TIMESCALES AND BUDGETARY CONSIDERATIONS.

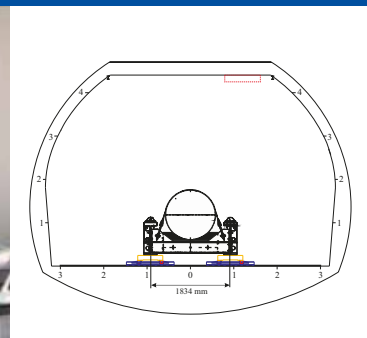
Over its 28 years of operation, Volga-Dnepr Group has established its reputation as a reliable air carrier, trusted partner, and world leader in the heavy and outsize air cargo transportation market. This achievement is not only due to the unique and unprecedented capabilities of the Group's fleet of airplanes and its development of proprietary loading systems but, more significantly, because of the expertise and professionalism of its team of people who consistently deliver the best transport and logistics solutions for customers worldwide.

Volga-Dnepr Group's proven engineering and logistics expertise enables it to support customers with a total logistics solution for 'door-to-door' deliveries and the completion of complex 'turnkey' projects. This includes the ability to design and manufacture bespoke frames and implement tailored engineering solutions for complex, heavy and outsize cargo deliveries that require the speed, security and

predictability of an air cargo delivery. For every customer requirement, no matter how complex, the Group's logistics specialists are able to call upon the best intellectual and material resources of Volga-Dnepr Group as well as the cooperation of proven and reliable partners and sub-contractors all over the world.

Volga-Dnepr's integrated end-to-end engineering and logistics capabilities are available to the Group's customers whether they require a total door-to-door delivery solution or individual components to ensure a safe, secure and on-time cargo delivery.

Always, our aim is to identify and deliver the most timely, efficient and economic solution for every customer. By discussing your transportation requirements with us at the earliest opportunity in your planning process, we'll deliver the best solution for you.



CONSULTANCY, LOGISTICS AND ENGINEERING SERVICES:

Site visits to conduct engineering and technical assessments of cargoes for transportation



Consultancy ahead of the product manufacturing process to ensure the cargo is capable of being transported without any delays or unexpected costs



Design and manufacture of special frames to enable loading and transportation of the cargo



Packaging advice and support to ensure the integrity of the cargo throughout the transportation process



Use of multi-modal services, including road, rail and sea transport



Sourcing of third party cargo aircraft if required to minimise costs for customers



Optimal route planning from production site to final destination



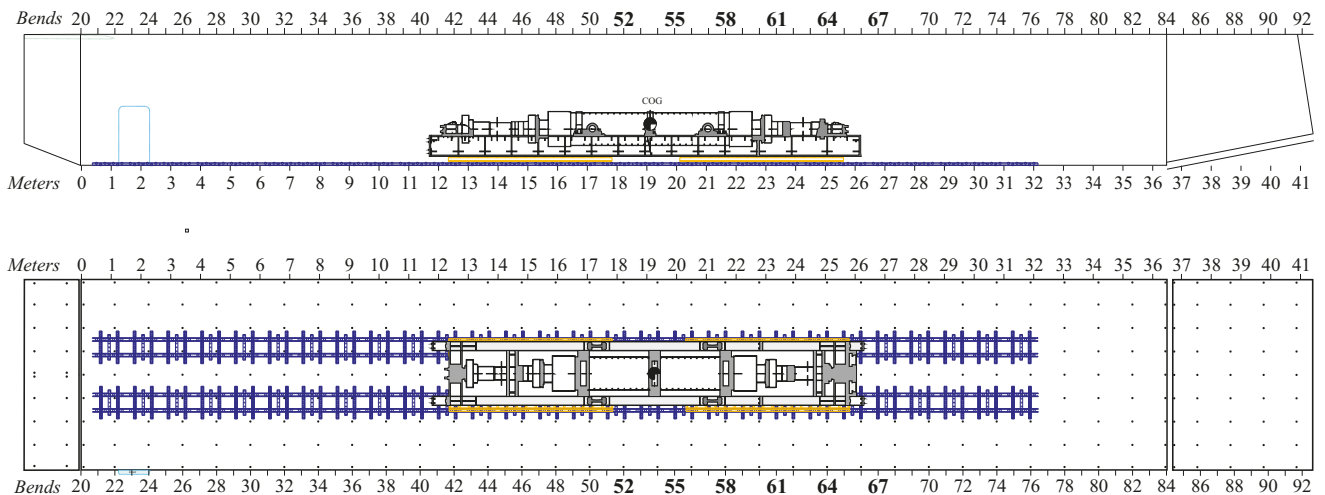
Ground support arrangements at airports for loading/unloading, cargo delivery to/from the airport and obtaining all necessary authorisations, approvals and permits



Assistance with customs clearance, insurance and warehousing of cargo



VOLGA-DNEPR'S ENGINEERING AND LOGISTICS EXPERTS ARE CONTACTABLE 24/7



BEST PRACTICE IN MOVING ENERGY & POWER CARGOES

Over more than 28 years of growth and development, Volga-Dnepr Group has attracted a highly-educated and highly-skilled workforce capable of tackling every aspect of the transportation and logistics process, however extreme and seemingly 'impossible' the challenge may seem.

Here are some simple steps to help ensure the seamless delivery of your cargo:

1. Provide the airline with any technical drawings and/or photos of the cargo along with any instructions for its transportation. This will allow the load planning engineer to make a full assessment of the cargo and approve loadability prior to shipment.
2. Provide the airline with an accurate list of any additional pieces to be sent with the main cargo. This is required to complete the load planning and navigational calculations.
3. Supply the airline with information on any dangerous goods that may form part of the shipment.
4. Confirm with the airline how the cargo needs to be transported, advising which parts can be dismantled, if required, and explain how the dismantled parts will then be packed.
5. Any enclosed space on the cargo should not be hermetically sealed in order to allow the air pressure inside and outside of the cargo to equalise during the flight.
6. During the flight, the air pressure in the cargo cabin will reduce. It is therefore important to inform the airline if you have any special requirements for the transportation, such as air temperature and pressure in the cargo cabin.
7. Inform the airline of the location of any lifting points and lifting instructions as well as any special requirements.
8. Advise the airline of the locations on the cargo that may be used to adequately secure/restrain the cargo within the aircraft's cargo cabin. The airline will provide a provisional load plan detailing the intended tie-down scheme for your approval.
9. The airline will ask you to approve its planned method for loading and transportation. Please review it and either give consent or explain the reasons for any questions you have and everything possible will be done to find a solution.
10. Talk to the airline if you have any questions or concerns. Solving issues during the preparation stage will avoid any problems or delays to the flight operation.



WHY CUSTOMERS CHOOSE US

VOLGA-DNEPR'S GLOBAL TEAM OF TRANSPORTATION, LOGISTICS AND ENGINEERING SPECIALISTS ARE READY TO SHARE THEIR EXPERTISE WITH YOU.

For over 28 years, we have been proud to serve customers all over the world. They come back to us again and again because they value:

- The expertise of our cargo transportation & logistics experts
- The unique operating capabilities of our aircraft fleet
- Our ability to provide an end-to-end logistics solution
- Our compliance with international safety and security standards
- Our ability to complete individual flights and projects on-time and on-budget
- Our global flight operations, even to remote regions of the world
- Our ability to design and engineer handling and loading frames and systems that make air cargo services possible for unique, outsize and heavyweight cargoes

WHEN TO ENGAGE WITH US

We recommend you contact Volga-Dnepr at the earliest possible stage of your planning process.

For unique, outsize and heavyweight air cargoes, many customers involve Volga-Dnepr at the product design stage in order to ensure that they take transportation of the finished product into account before they begin the manufacturing process. By working in partnership with the customer, Volga-Dnepr's engineering and planning experts can offer advice such as simple modifications to the cargo, if required, that will ensure it can be transported, loaded and unloaded safely. This can result in significant cost and time savings.

Early planning will also help us to ensure the aircraft you need is available when and where you need it to move your shipment on-time.

Volga-Dnepr's unique 'cargo supermarket' services enable us to always find the most cost efficient solution for every cargo movement or project. Talking to us early in your planning and manufacturing cycle means we will be able to tailor our service offering to achieve the optimum transportation of your cargo without having to incur any unnecessary delays or costs.

OUR EXPERTS ARE AT YOUR SERVICE 24/7

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