



Introduction of GSR Services

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Company Profile

GSR's goal is improving the safety and environmental protection of ship recycling activities and closing the circle from cradle to cradle in the maritime industry.

GSR Services e.K. (GSR) is a private owned company which has been established in January 2011 for offering comprehensive knowledge and expertise based services for effective implementation of new requirements¹ for enhancing the safety and environmental performance. The required changes in the maritime and ship recycling industry are in the focus of all GSR's activities. Services are provided for the whole life-cycle of ships, from suppliers, shipyards, to ship owners, brokers, cash buyers, ship recycling facilities and hinterland waste management, as well as Flag States, and Classification Societies.

Our clients are from the whole life-cycle of ships, from manufacturers of materials & components via shipyards, shipowners, brokers to ship recyclers including waste management in their hinterland as well as classification societies and flag states. GSR provides customer oriented solutions based on its vast technical and legal experience and knowledge. GSR is well connected internationally to various stakeholder networks, also the Managing Owner Henning Gramann has established the „International HazMat Association e.V.“² in 2013 for providing more efficient IHM services to ship owners.

Expertise and work experience

GSR shares its experiences in all fields related to ship recycling, from cradle to grave. Detailed insight has been gained by early involvement in the development of legal requirements at IMO including very active participation in developing all related guidelines. In addition GSR and its staff has conducted specific research projects in the fields of IHM preparations and certifications, documentation of hazardous materials and exchange / compilation thereof, utilization of IHM information for planning of ship recycling processes and identification of suitable ship recycling facilities, laboratory standards, statistics for hazardous material surveys, identification of valuable stakeholders and players in the market for creating a high standard network, sharing and distribution of experiences, and much more. All developments and practical works have been and will be carried

¹ e.g.:

- "Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships" (SR/CONF45) of International Maritime Organization
- Regulation (EU) No 1257/2013 of the European Parliament and of the Council of 20 November 2013 on Ship Recycling and amending Regulation (EC) No 1013/2006 and Directive 2009/16/EC
- ISO 30000: Ships and marine technology — Ship recycling management systems — Specifications for management systems for safe and environmentally sound ship recycling facilities

² see: www.ihm-association.org



out with focus on legal compliance, health and safety, environmental protection, Corporate Social Responsibility, practicality and efficiency, and economics.

Based on its experience and knowledge GSR offers the most comprehensive services under full consideration of individual approaches to all its clients.

The key activities of GSR are the following:

- Implementation of (future) legal requirements
 - o Manufacturers & suppliers
 - preparation of Material Declarations & Suppliers Declarations of Conformity
 - o Shipyards
 - preparation of IHMs for new ships (according to new or existing ships standards)
 - o Ship owners
 - preparation of IHMs for existing ships
 - CSR-compliant recycling of ships
 - selection of appropriate ship recycling facilities
 - planning & supervision of recycling projects
 - o Ship recyclers
 - gap analyses and development of improvement plans for compliance with upcoming requirements of IMO and EU
- Trainings
 - o IHM-Experts
 - o Asbestos Management (ship owners)
- Consulting for ministries and associations, classification societies
- Establishment of international network of IHM-Experts (IHMA)



Managing Director

Henning Gramann holds a degree in Environmental Engineering (Diplomingenieur, Dipl.-Ing.-FH) specialized in waste management and is engaged in various fields of maritime environmental protection since the year 2000.

He started his career with GAUSS mbH in Bremen, a research institute for environmental protection and safety in shipping, as a specialist in maritime waste management.

Later he was a seafarer (environmental officer) onboard a cruise vessel implementing a comprehensive corporate environmental management system.

In 2005 he joined Germanischer Lloyd, as “Global Head of Practice - Ship Recycling” he was responsible for the development and establishment of all ship recycling services of Germanischer Lloyd (GL) in line with the Hong Kong Convention (HKC). He has created a comprehensive service portfolio for GL which can't be found in the industry elsewhere yet.

Henning has established Green Ship Recycling Services e.K. (GSR Services) in January 2011 for supporting independently all stakeholders for cost effective preparations for and fulfilment of IMO's Hong Kong Convention and other applicable requirements.

He is frequently chairing and speaking at various international conferences and is an internationally well-respected expert for ship recycling. In addition he holds the following positions:

- Managing owner GSR Services
- Chairman & Treasurer of IHMA
- Guest-lecturer at World Maritime University
- Member of German delegation to IMO-MEPC / Ship Recycling
- Advisor of German Ministry for Transportation
- Technical Expert of International Maritime Organization (IMO)
- Project Leader for ISO 30003 & 30005

After stepping back as founding & board member of International Ship Recyclers Association (ISRA) in March 2012 he has established the “International Hazardous Material Expert Association” (IHMA e.V.) in March 2013 in Dubai, which compiles knowledge and technical expertise of leading “IHM Experts”, create a global network for offering highly qualified IHM services to the shipping industry, closing gaps in existing technical guidelines of IMO, and establish highest standards and provide guidance to all stakeholders like flag and recycling states, classification societies, P&I clubs, insurance companies and others.



Expertise and work experience

GSR Services has established international contacts and uses its vast experience, technical and legal knowledge which is provided to its customers in form of services like:

- Advise on and overtaking of MDs & SDoCs preparation for suppliers
- Advise on and overtaking of IHM preparation for shipyards
- Advise for classification societies
- IHM-Preparation for new & existing ships (“approved HazMat Expert services”)
- IHM-maintenance for shipowners
- MD/SDoC management for manufacturers
- Decontamination planning and preparation of Safe Operating Procedures (SOPs) in case not all risks associated with present hazardous materials can be terminated
- Preparation of ships for recycling, recycling planning, identification of suitable ship recycling facilities based on ship specifications and commercial evaluations
- Improvement and investment planning for ship recycling facilities
- Design and operation of ship recycling facilities in combination with hinterland infrastructure
- Trainings:
 - o Asbestos awareness for workers / for managers and supervisors
 - o IHM Preparation for “IHM Experts” and shipyards
 - o MD & SDoC preparation and maintenance for maritime suppliers
 - o Planning of green ship recycling facilities including consideration of organisational, financial, technical requirements, and hinterland infrastructure for new and existing facilities, etc.

In addition GSR has worked on the EU-funded project “ShipDIGEST” (Ship Dismantling Insight by Generating Environmental and Safety Training) funded by the European Commission / Leonardo da Vinci program. The main aim and objective was to assist the ship recycling industry by improving, through knowledge transfer, the various identified social and HSE issues by utilising innovative products, tools and vocational education and training (VET) from previous EU projects and from similar industries within the EU.

GSR has carried out its services in various regions like Asia (e.g. China, India, Japan, Philippines, Singapore), Europe (e.g. Germany, Gibraltar, Netherlands), and Africa (e.g. Cameroun, Gabon, Namibia). Besides numerous IHM preparations for new and existing ships GSR has developed the audit system and check routines for internal audits of ship recycling facilities by ISRA. For GL and ClassNK GSR various trainings for IHM Experts, persons who are preparing IHMs for ships, have been conducted as well as support provided for utilization of IHM in conjunction with ship recycling facility specific procedures for planning safe and environmentally sound recycling of ships (Ship Recycling Plan preparation). In addition GSR has conducted an Expert Report on “Comparison of equivalency of control mechanisms of Basel Convention with the upcoming Hong Kong Convention” on behalf of Japan Ship Center (JETRO) in London, just to name a few of our successful projects.



Detailed expertise on all upcoming legal requirements of IMO and EU can be provided to GSRs' clients due to GSRs' detailed involvement in legal and technical development of HKC and all related guidelines since 2005. Additionally its involvement in the preparation of the ISO 30000 series from the very beginning included also project leadership for ISO 30003 and 30005. These are important activities allowing GSR to consider any ship recycling aspect fully and understand opportunities and limitations of what is considered green and safe ship recycling.

Network of GSR

GSR is well established in the business of green and safe ship recycling on all levels. It cooperates with and/or works on behalf of various stakeholders. This includes e.g.:

- International Maritime Organization (IMO)
- German Federal Ministry of Transport, Building and Town Development
- International Standardization Organization (ISO)
- DIN (German Standardization Association)
- Shipowners Associations
- Classification Societies and their Academies
- other consultants
- Hewlett Packard
- International Ship Recycling Association (ISRA)
- Ship Recyclers Association and Ship Recycling Facilities of Turkey, Pakistan, India, Europe
- Offshore Industry (oil & gas companies, offshore wind park companies)
- NGO Platform on Shipbreaking
- IBC Maritime Academy Singapore
- other green ship recycling service providers
- Cash Buyers
- IHM Expert companies in Europe and Asia
- Laboratories
- Shipyards
- Manufacturer and suppliers
- Shipowners from Africa, Asia, Americas, Europe
- Other service providers (data management, consultants, towage companies)
- etc.

Contact

GSR Services e.K.

Schnellenberger Weg 11
21394 Suedergellersen OT Heiligenthal
Germany

info@gsr-services.com

www.gsr-services.com

Tel: +49 (0)4135 31789 - 50

Fax: +49 (0)4135 31789 - 62



