

SHIP IS GLOBAL BUSINESS

Solar Payback's photo gallery and world map are

- the most comprehensive database of SHIP market information worldwide, with **606 projects** in total.
- the result of annual **Solar Payback** surveys of SHIP suppliers based in all corners of the world.
- **available in three languages:** English, Spanish and Portuguese.

Solar Payback promotes the use of Solar Heat for Industrial Processes (SHIP) in four countries: Brazil, India, Mexico and South Africa. In each of them, it is putting a spotlight on the technical and economic potential of solar heat to help these countries create new and exciting investment opportunities.

The project is being financed by IKI, the International Climate Initiative, and receives support from Germany's environment ministry.

Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety

based on a decision of the German Bundestag

Solar Payback coordinator:



info@solar-payback.com

Partner responsible for communication:



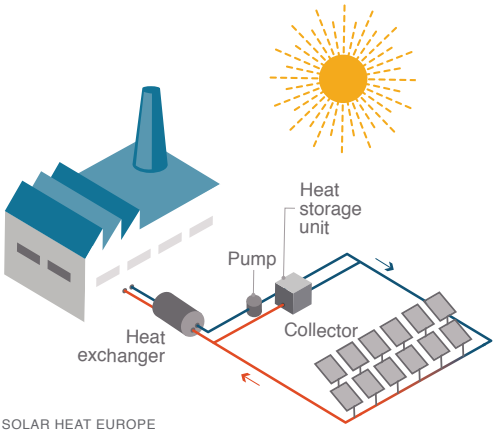
info@solrico.com



NAVIGATE THE WORLD OF SHIP

GALLERY WITH OVER 80 PHOTOS
OF REFERENCE PROJECTS
WORLD MAP SHOWING 80+
TURNKEY SYSTEM SUPPLIERS

SOLAR HEAT FOR INDUSTRIAL PROCESSES (SHIP) DESCRIBES SYSTEMS WHICH SUPPLY SOLAR HEAT TO FACTORIES.



A **solar collector field** heats a process fluid by means of solar radiation, and a heat exchanger later **transfers** the **thermal energy** contained in that fluid to a distribution system or a production process in a factory in the form of hot water, hot air or steam. Storage tanks make it possible to use the heat at nighttime too.

SHIP systems need to be tailored to the temperature range of the relevant **industrial processes** or to the conventional heating systems in connected factories.

INDUSTRY	LOW Below 150 °C	MEDIUM 150 to 400 °C	HIGH > 400 °C
Chemical	• Boiling	• Distilling	
Food and beverage	• Drying • Boiling • Pasteurising • Sterilising		
Machinery	• Cleaning • Drying		
Mining	• Copper electrolytic refining • Mineral drying processes	• Nitrate melting	
Textile	• Washing • Bleaching	• Dyeing	
Wood	• Steaming • Pickling • Cooking	• Compression • Drying	
	100 °C 150 °C 250 °C 350 °C		
	Flat plate Evacuated tube Evacuated tube CPC Evacuated flat plate	Small parabolic trough / linear Fresnel without evacuated receiver Concentrating dish	Large parabolic trough / linear Fresnel with evacuated receiver

IEA SHC TASK 49

THIS IS WHAT SHIP LOOKS LIKE SHIP PHOTO GALLERY



Choose from over 80 photos of SHIP systems installed in several parts of the world and use them for your website, presentations, articles, reports or social media communication.

All images are free of charge for commercial and personal use, if you mention the copyright owner.

HOW TO FIND THE PHOTO YOU'RE LOOKING FOR

1. Use the *Photo Search* function to filter images:

Photo Search

by Supplier

by Year

by Application

by Country

by Industry

by Collector Type

by Supplier

by Year

by Application

by Country

by Industry

by Collector Type

2. Scroll through search results.
3. Click on a photo for more details:

Toggle results (thumbnails)

Download button

Copyright: Calentadores Solares Bicentenario S de RL de CV

Country: Mexico
Customer: CNH Industrial
Industry: Automotive
Application: Painting workshop
Collector Type: Evacuated tube
SHIP Supplier: Solargro
Year of commissioning: 2017
Pixel: 408 X 306

www.solar-payback.com/gallery/gallone_en.php

FIND YOUR TURNKEY SHIP SUPPLIER

Over 80 turnkey system suppliers, some with and some without their own collector production, are part of an interactive world map.

Take a look at their service range and reference projects by making use of the functions described in the following.

YOU HAVE THREE OPTIONS TO FIND SUPPLIERS IN YOUR REGION:

1. Click *Search* and type in a country.
2. Click on a marker on the world map.
3. Click *Search* and type in a supplier's name.

- The results window lets you see the number of suppliers in each category.
- Choose suppliers based on the level of integration and their experience in SHIP:

Supplier without references*	14
Supplier with collector production and without references*	5
Supplier with references	22
Supplier with collector production and references	42

* Supplier which has not yet built a SHIP reference system but has experience in putting up large solar thermal systems for public and private-sector customers.

Choosing a supplier opens a popup window that shows more detailed information.



- No. of reference projects by the end of 2018 and corresponding collector area.
- Collector type produced inhouse.
- Option for heat supply contracts.
- Link to reference projects listed on ship-plants.info
- Link to company's website.

www.solar-payback.com/suppliers/