

Ser  energy

clean power

#### Vision

**Provide the next generation of clean, efficient and cost-effective methanol fuel cell systems**

#### Mission

**Be the leading supplier of methanol fuel cells in telecom, utilities and industry**

#### Core strategy

**Horizontal supplier of technology, systems and solutions for commercial service providers and operators within the telecom business and stationary solutions.**

**Sales channels are primarily via local partners**

**Primary geographic presence is Asia and Europe. Currently looking into market entry to Africa and North America**

# Facts about SerEnergy

FOUNDED IN

2006



METHANOL-BASED  
FUEL CELLS



OWNED BY



70 EMPLOYEES



LOCATIONS IN  
DENMARK



INDIA

PHILIPPINES

THOUSANDS OF UNITS  
DEPLOYED GLOBALLY



# Part of the fischer group family



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# Solutions

## MODULES



H3 5000 - 48



H3 5000 - HV

## CABINETS



INDOOR



OUTDOOR



DEPLOYABLE

## PLATFORMS



SERVICE MANAGEMENT SYSTEM



REMOTE MONITORING

## OTHER SERVICES



SERENERGY ACADEMY



SUPPORT & SERVICE

## BUSINESS SEGMENTS



TELECOM



INDUSTRIAL



UTILITY

# Solutions

## MODULES

- 5kW module up to 100kW and more
- DC output from 48, 375 and 560VDC
- Remote monitoring platform and alarms via IP or modem
- Operation temperatures from -20°C and up to 50°C
- Perfect for battery charging for backup applications

## CABINETS

- 200 l fuel tank
- Comes in split cabinet and modular cabinet
- Holds from 1 to 3 modules
- Easy refilling
- Can be adapted to indoor installations
- Fully integrated unit with tank
- Prepared for ducting
- Up to 15kW power

## PLATFORMS

- Fleet
- Service
- Support
- Alert handling
- Preventive maintenance
- System Status
- Early failure identification
- Configuration of system
- Software update
- Live view of system with remote control

## OTHER SERVICES

- Service/Repair
- Support
- Fleet management
- Evaluation
- Maintenance, Spare parts & fuel

## BUSINESS SEGMENTS



TELECOM

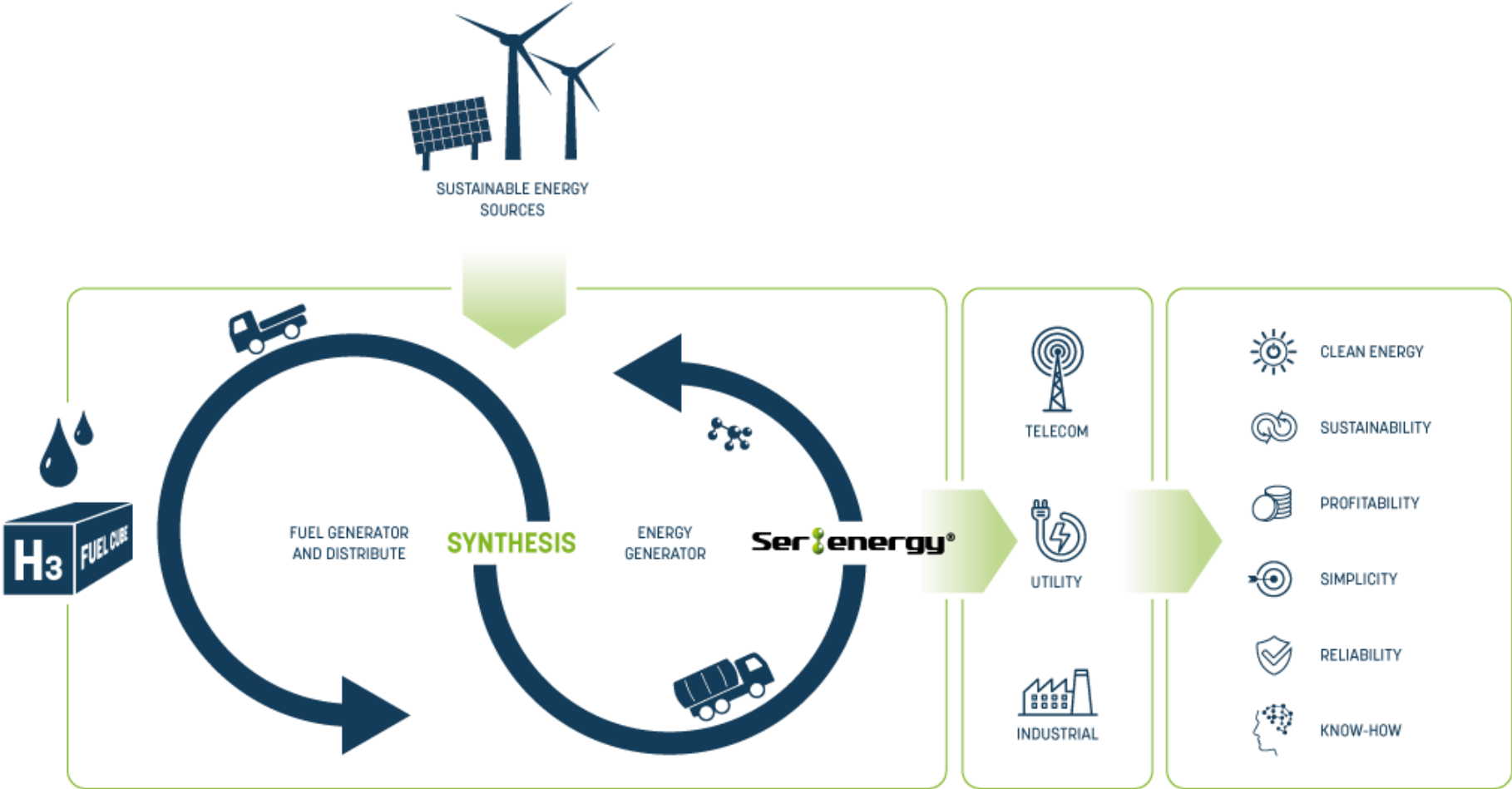


INDUSTRIAL

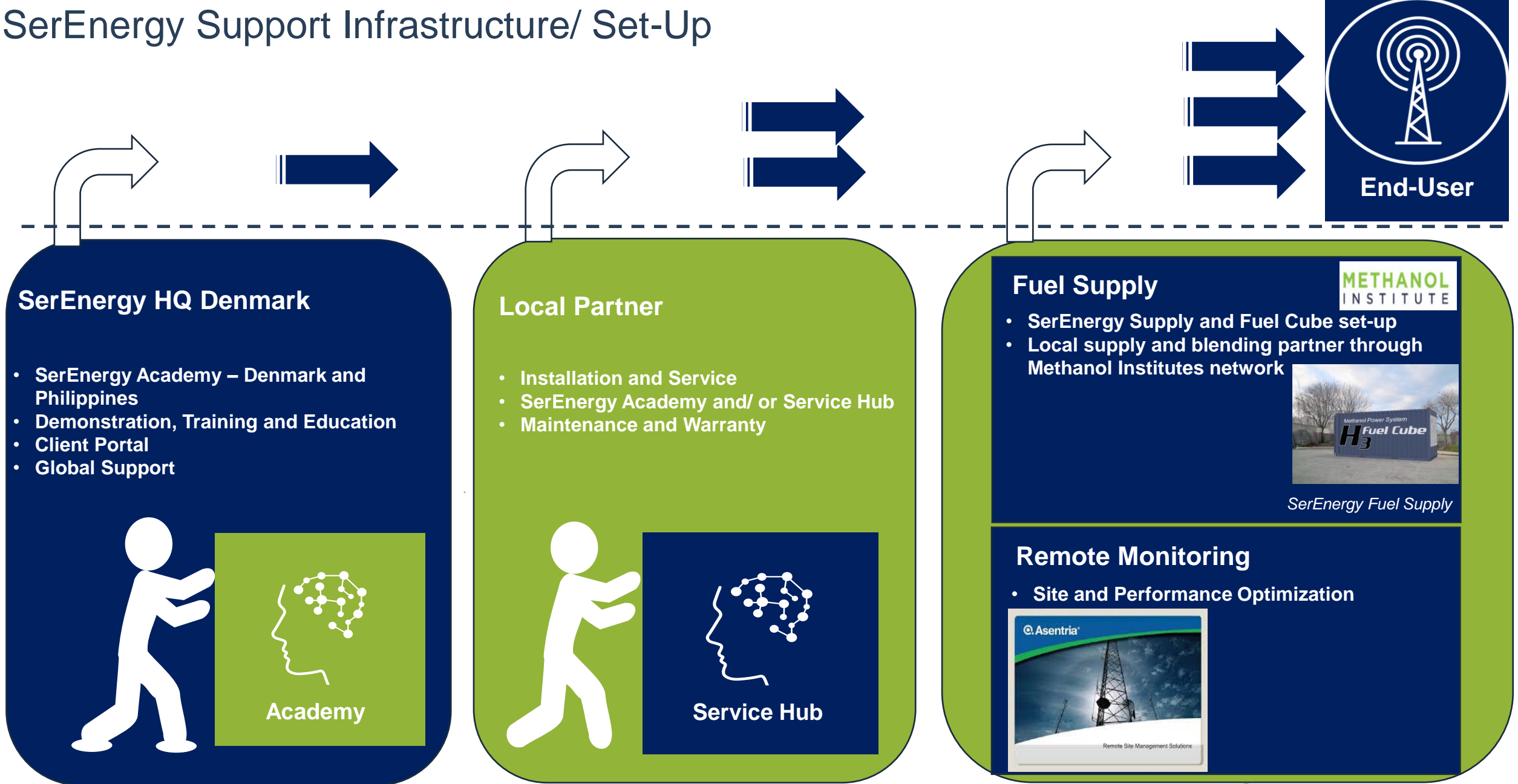


UTILITY

# Sustainable Process



# SerEnergy Support Infrastructure/ Set-Up



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# Any Questions

# Appendix

# The fischer group

FOUNDED IN

# 1969



LEADING SUPPLIER OF  
LONGITUDINALLY WELDED  
STAINLESS STEEL TUBES AND  
COMPONENTS



COMMITTED TO  
ENVIRONMENTALLY FRIENDLY  
ENERGY SOLUTIONS

2,800 EMPLOYEES



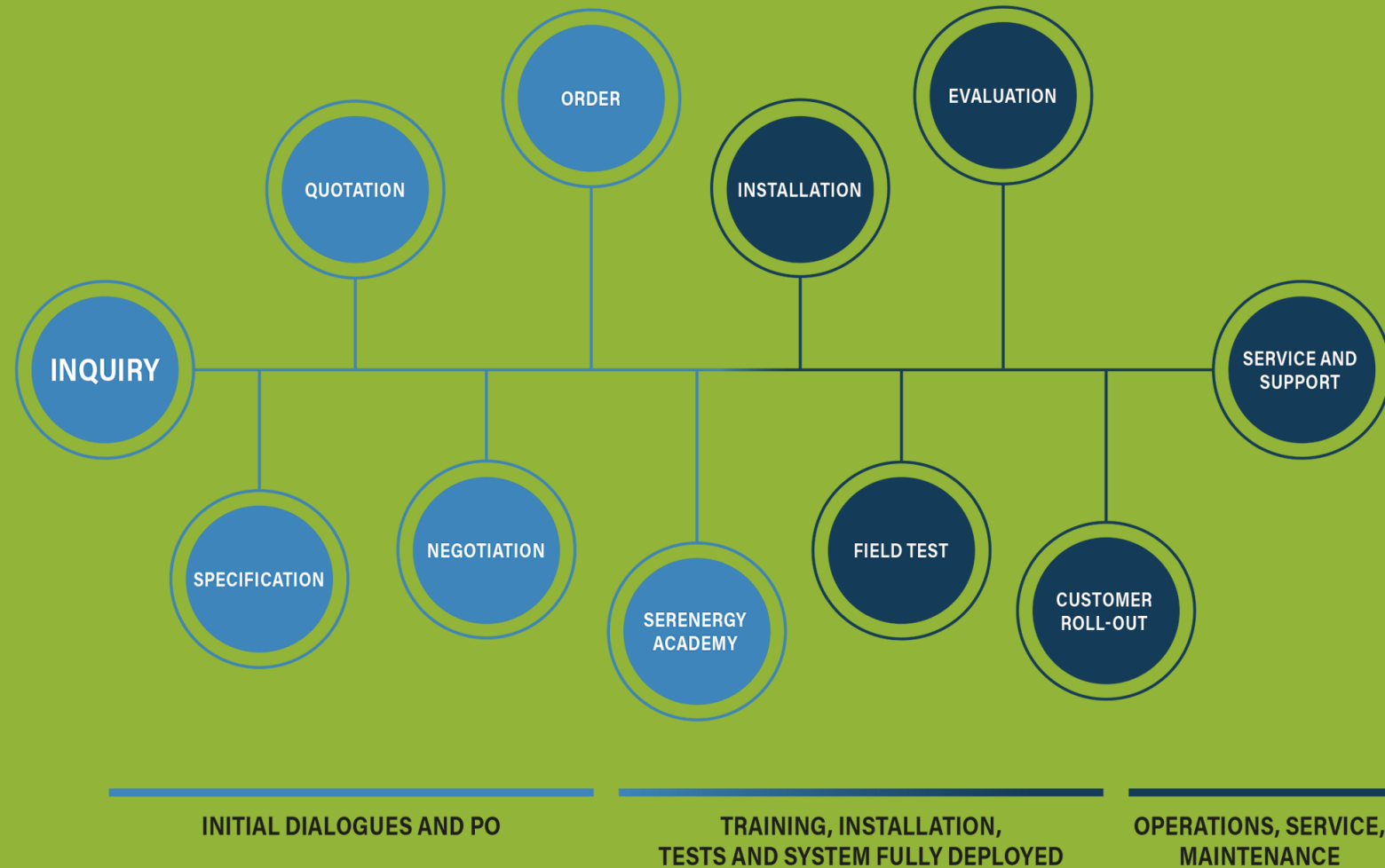
HQ IN GERMANY  
20 SUBSIDIARIES



€ 750 MILLION TURNOVER



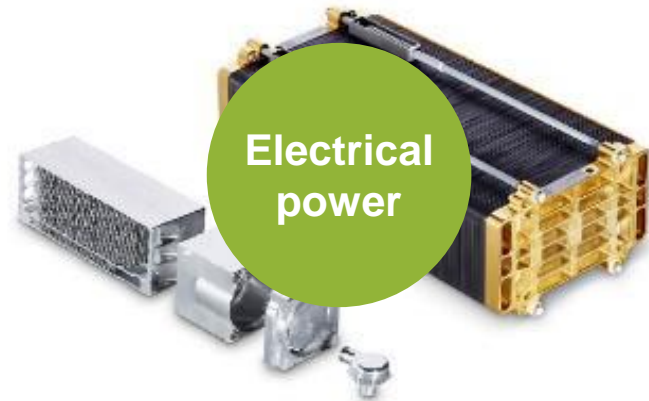
# Business Process



# Clean Energy Conversion

- SerEnergy fuel cell converts the chemical energy of methanol into electric energy.
- Its efficiency is higher than with diesel generators and the local CO<sub>2</sub> pollution is lower.
- The hydrogen required for the fuel cell reaction is produced with the integrated methanol reformer.
- The high safety requirements as in the handling with hydrogen are not necessary.
- Regeneratively produced "green methanol" from electrolysis and methanol synthesis serves as energy storage and, as e-fuel, is an important component in the energy turnaround.

Methanol  
CH<sub>3</sub>OH



Green methanol is globally available

# Thank you for your attention!

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