Exhaust Gas After Treatment

**Advantage**
High Efficiency

**Disadvantages**
Investment (equipment + labour)
Operational cost
Occasionally difficult to retro-fit

**Remark**
SCR and/or DPF?
Exhaust Gas After Treatment

Installation of the equipment often accounts half the cost

Rationalisation of installation work is at least as important as reducing the price of the equipment.
DPF Equipment
SCR Equipment
SCR Equipment
LNG

**Advantages**
Low emission levels
Fuel economy

**Disadvantages**
Investment
Space requirement
Difficult to retro-fit
LNG
Power train Optimisation

Multiple engine configuration

**Advantages**
- Fuel economy
- Reduced emissions

**Disadvantages**
- Space requirement
- Moderate investment
Multiple Engine Configuration
Power train optimisation and Exhaust After Treatment

Multiple Engine, Diesel - Electric configuration

**Advantages**
- Fuel economy
- Low emissions

**Disadvantages**
- Space requirement
- Initial investment
Summarising

- Exhaust gas After Treatment (DPF, SCR, DPF+SCR)
- LNG
- Multiple Engine Configuration (mechanical, load dependent)
- Multiple Engine Configuration (diesel, diesel/electric, +SCR)
Thank you for your attention