



Procurement & Operation Of ÖBB railjet Concerning Aspects Of Energy Efficiency



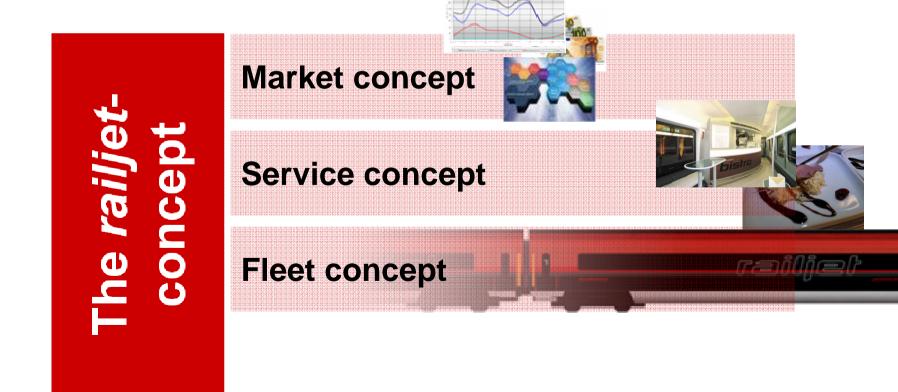








The railjet-Concept













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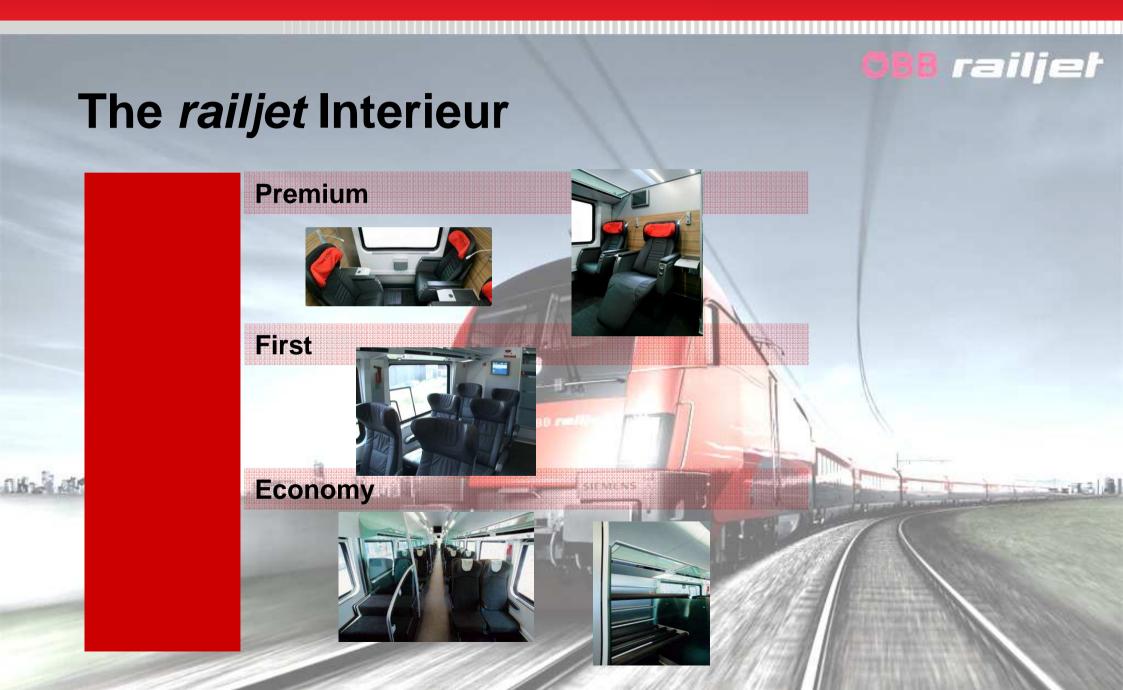
988 railjel

The railjet Configuration

408 seats - 16 Premium, 76 First, 316 Economy





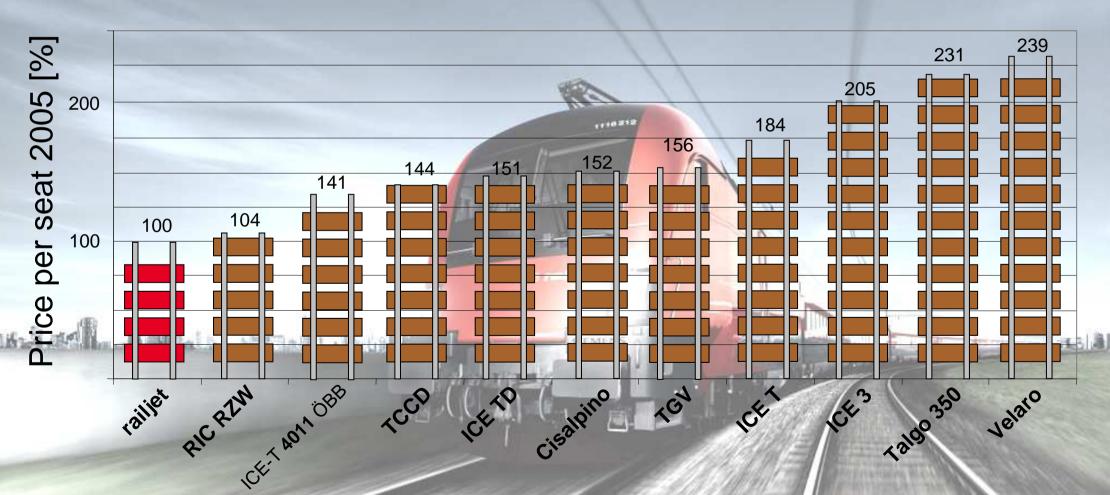






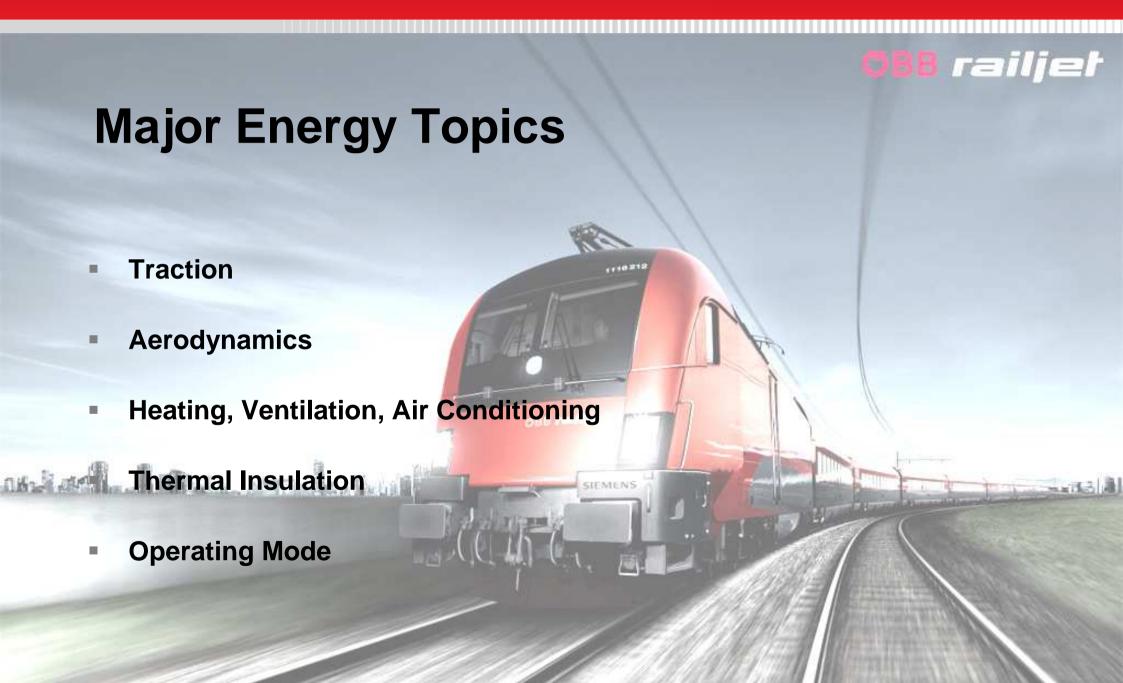
988 railjet

International Benchmark











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Traction

Standard loco ÖBB-"Taurus"

- Continuous rating 6400 kW
- Maximum speed 230 km/h
- Mass 86t
- Starting tractive effort 300 kN

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For international traffic there is every other diesel- or elektric loco usable

Recovering brake energy as "State Of Technology"



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Heating, Ventilation, Air Conditioning

- Preheating concept considers Loco Software (no changes)
- "energy safing mode":
 - Frost protection (UIC 553), min. +7℃ inside the compartments
 - ventilation starts above 30℃ inside the compartments
 - Changing to normal operation by cab activation or pre-programming













Thermal Insulation

Coefficient of heat transmission 1,3 W/m²K

Operation Mode

Manner of driving

Tools accepted by staff











988 railjet

Conclusion

- Safing Energy is not only a matter of technical possibilities
- In times of increasing cost pressure each energy safing concept has to be a well-balanced mixture of
 - Rateable savings capacity
 - Limited costs, but also
 - Feasible implementation and
 - Advantages for all involved fitting in the existing embedding system.

In that case we all will have sustainable success

Thank You