

## Example calculation – R&S®TMU9 with Doherty technology vs. market average air-cooled transmitter

vs. market average an-cooled transmitter			
	R&S®TMU9 with Doherty technology	Market average transmitter	
P <sub>in</sub>	3000 W	5700 W	
P <sub>out</sub>	1140 W	1140 W	
Power efficiency	38%	20%	
Required energy per year (24/7)	26280 kWh	49932 kWh	
Expected energy costs at EUR 0.10 per year (24/7)	EUR 2628	EUR 4993	
Saved energy costs per year	EUR 2365	_	
Energy costs in 10 years	EUR 26280	EUR 49932	
Saved energy costs in 10 years	EUR 23652	_	

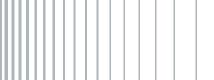
All values including cooling.

## Advantages of up to 38% power efficiency:

- I More than 40% reduction in energy costs
- Significant reduction of CO<sub>2</sub> emissions
- Improvement in power efficiency by almost 100%

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## Example calculation – R&S®THU9 with Doherty technology vs. market average liquid-cooled transmitter

	R&S®THU9 with Doherty technology	Market average transmitter	
P <sub>in</sub>	12200 W	23250 W	
P <sub>out</sub>	4650 W	4650 W	
Power efficiency	38%	20%	
Required energy per year (24/7)	107200 kWh	203700 kWh	
Expected energy costs at EUR 0.10 per year (24/7)	EUR 10720	EUR 20370	
Saved energy costs per year	EUR 9650	_	
Energy costs in 10 years	EUR 107200	EUR 203700	
Saved energy costs in 10 years	EUR 96500	_	

All values including cooling.

## Smart Doherty solution with several advantages:

- Increase in efficiency by up to 100% compared with market average transmitters
- Built-in power supply redundancy for enhanced availability
- Longer lifetime through lower device temperature