WHAT IS CLAIMED

1. Group comprising an auxiliary power supply system (1) and an interface device (2) for forming an interface between said auxiliary power supply system (1) and a power generation module (3) in a rail vehicle, said power generation module (3) having been designed to charge with electrical energy an auxiliary power supply system implemented according to a technology different from that one of the auxiliary power supply system (1) of said group, said group being characterized in that said interface device (2) comprises means for connecting to said power generation module (3) and to said auxiliary power supply system (1), and in that the interface device (2) comprises interface means (20) designed for the operation of said auxiliary power supply system (1) in combination with said power generation module (3), the interface means (20) comprising safety means (24, 25) mounted in parallel with said other type of auxiliary power supply system (1).

2. Group according to claim 1, characterized in that, the power generation module (3) comprising charging means designed to deliver energy, said interface means (20) comprise means for transferring electrical energy (21) delivered by the charging means of said power generation module (3) to said auxiliary power supply system (1).

3. Group according to one of claims 1 or 2, characterized in that said interface means (20) further comprise means for transferring electrical energy (22) coming from said auxiliary power supply system (1) to the power generation module (3).

4. Group according to one of claims 1 to 3, characterized in that the interface means (20) comprise energy storage means (23).

5. Group according to one of claims 1 to 4, characterized in that said auxiliary power supply system (1) is a battery of Lithium Iron Phosphate type.

6. A rail vehicle comprising an interface device in accordance with one of claims 1 to 5.

7. Method for maintaining a rail vehicle, the rail vehicle comprising an auxiliary power supply system implemented according to a first technology and a power generation module (3), said power generation module (3) being designed to charge with electrical energy said auxiliary power supply system, said maintenance method being characterized in that it comprising replacing said auxiliary power supply system by a group formed by an auxiliary power supply system (1) implemented according to a second technology different from the first technology and an interface device (2), said interface device (2) for forming an interface between said auxiliary power supply system (1) of said group and said power generation module (3), and comprising the interface means (20) designed for the operation of said auxiliary power supply system (1) in combination with said power generation module (3), the interface means (20) comprising safety means (24, 25) mounted in parallel with said other type of auxiliary power supply system (1).