



Erratum to: On the optimal mix of Renewable Energy Sources, electrical energy storage and thermoelectric generation for the de-carbonization of the Italian electrical system

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The original version of this article contained an error in the captions of Figures 3, 4, 5, 8 and 10.

The corrected versions of the captions read:

Figure 3: Comparison of the maximum energy storage and the maximum power storage at different thermoelectric generation powers for 40% RES share. Top: hydroelectric storage considering two photovoltaic fractions ($f_{PV} = 25\%$ and 60%) and the values of the storage efficiency given in Table 1. Bottom: power-to-gas storage again considering two photovoltaic fractions and the values of the storage efficiency given in Table 1.

Figure 4: Comparison of the maximum energy storage and the maximum power storage at different thermoelectric generation powers for 70% RES share. Top: hydroelectric storage considering two values of f_{PV} (25% and 60%) and the values of the storage efficiency given in Table 1. Bottom: power-to-gas storage again considering two photovoltaic fractions and the values of storage efficiency given in Table 1.

Figure 5: Comparison of the maximum energy storage and the maximum power storage at different thermoelectric generation powers. Top: hydroelectric storage considering two different photovoltaic fractions (25% and 60%) and the values for the storage efficiency given in Table 1. Bottom: power-to-gas storage again considering two photovoltaic fractions and the values for the storage efficiency given in Table 1.

Figure 8: Power produced by thermoelectric system versus RES share for two cases: no storage (blue) and unlimited storage (red) using 100% round-trip efficiency. The case of power-to-gas storage (max storage considered 10TWh) and hydroelectric storage (max stor-

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age 1.3 TWh) is also shown. Left: photovoltaic fraction = 25%; right: photovoltaic fraction = 60%.

Figure 10: Grid power (P_{grid}) as a function of intermittent RES production for four cases: photovoltaic fraction = 25% (blue line) and 60% (green line), grid power minus the power due to the storage system for a photovoltaic fraction of 25% and P_{grid} minus the storage power for a photovoltaic fraction of 60% (purple line).

The authors would like to apologize for any inconvenience caused to the readers by these changes.