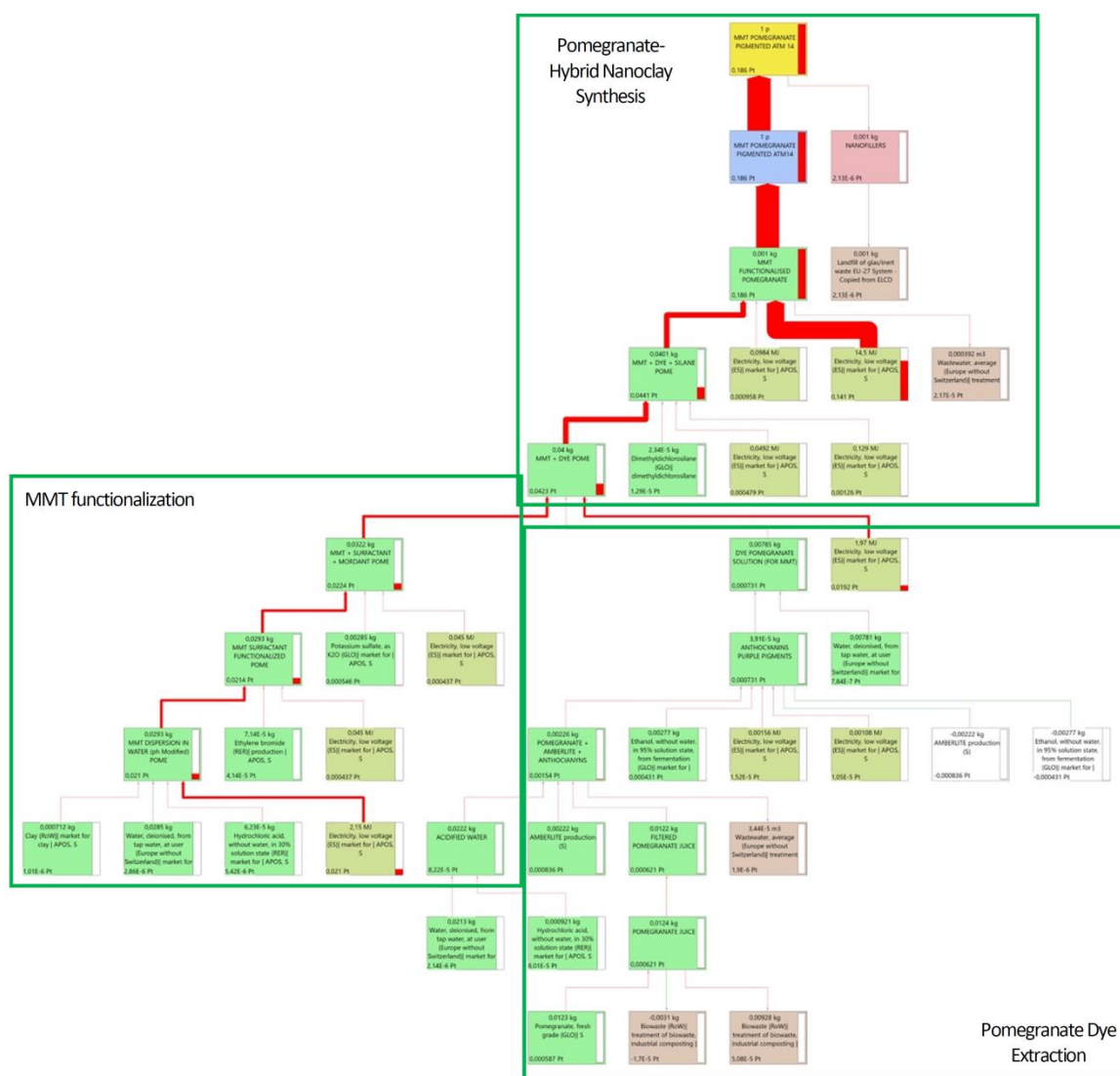
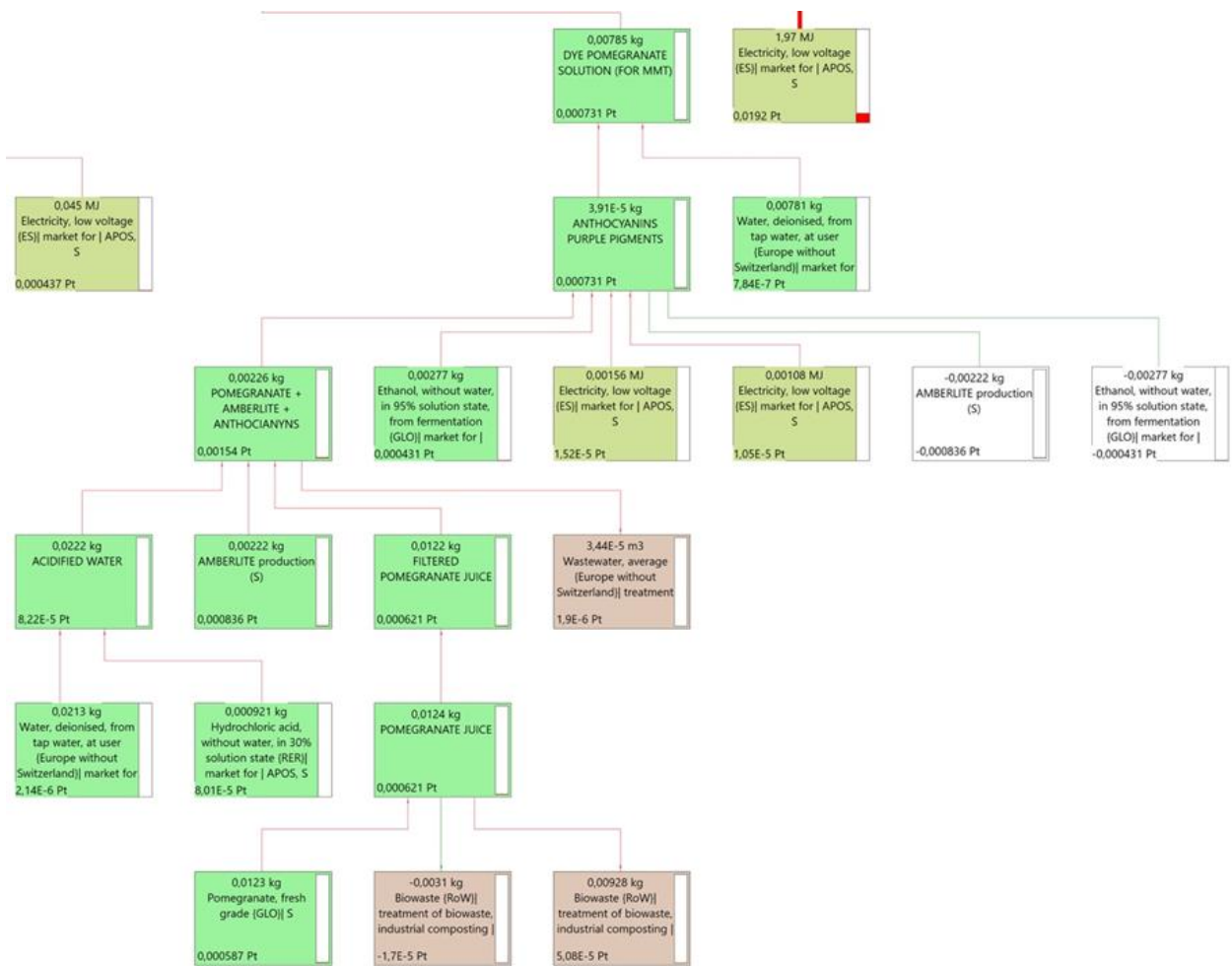
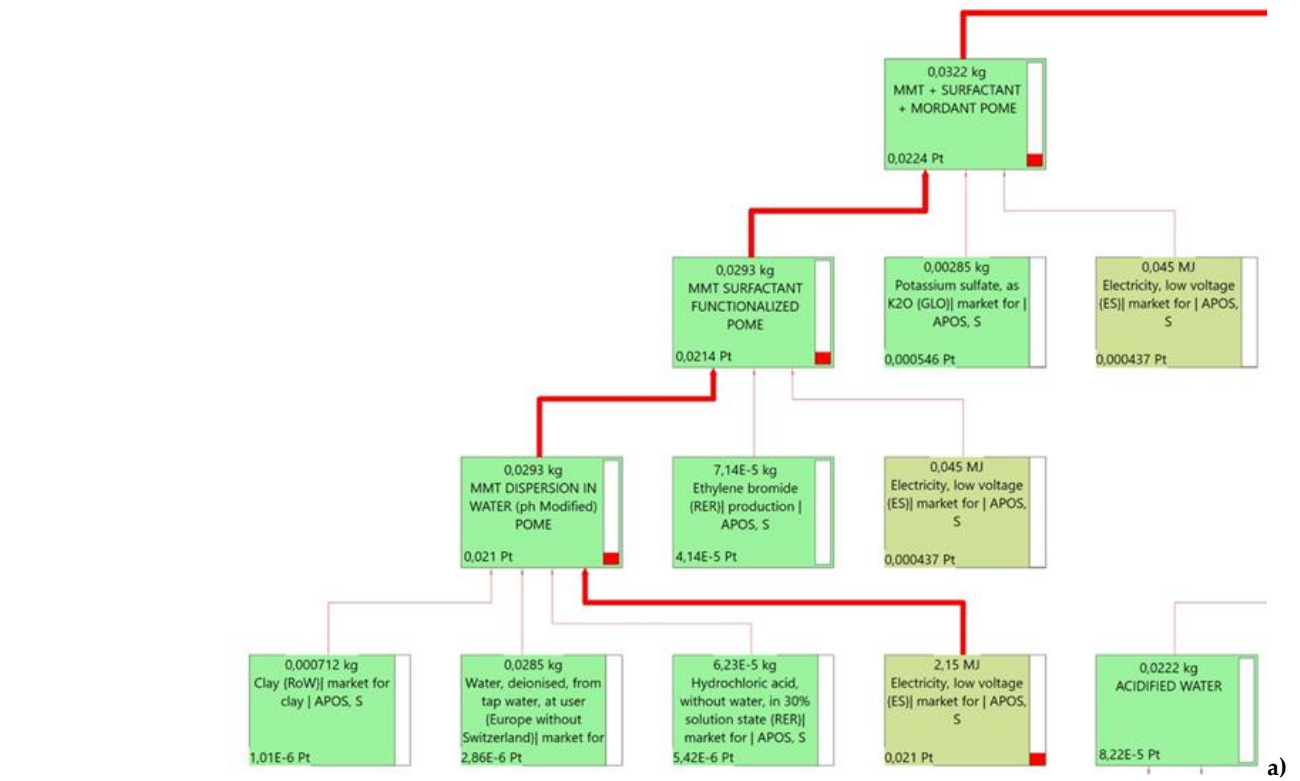


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c)

Figure S1. MMT-based PDNPs process tree and details of the three sections: pomegranate dye extraction (a), MMT functionalization with surfactant and mordant (b) and nanohybrid preparation (c).