Attempt 2:

Haoyu Debug, unit= BOP , t= 12.0 , curr= 1130.838 , V1= 1130.838 , r(MW)= 1130.838 , vp(MW)= 1130.838

Haoyu Debug, unit= BOP , t= 13.0 , curr= 1130.838 , V1= 1130.838 , r(MW)= 1130.838 , vp(MW)= 1130.838

Haoyu Debug, unit= BOP , t= 14.0 , curr= 1130.838 , V1= 1130.838 , r(MW)= 1130.838 , vp(MW)= 1130.838

Haoyu Debug, unit= BOP , t= 15.0 , curr= 1130.838 , V1= 1130.838 , r(MW)= 1130.838 , vp(MW)= 1130.838

Haoyu Debug, unit= SES , t= 12.0 , curr= 49.996 , V1= 49.996 , r(MW)= 49.996 , vp(MW)= 49.996

Haoyu Debug, unit= SES , t= 13.0 , curr= 39.091 , V1= 39.091 , r(MW)= 39.091 , vp(MW)= 39.091

Haoyu Debug, unit= SES , t= 14.0 , curr= 49.996 , V1= 49.996 , r(MW)= 49.996 , vp(MW)= 49.996

Haoyu Debug, unit= SES , t= 15.0 , curr= 49.996 , V1= 49.996 , r(MW)= 49.996 , vp(MW)= 49.996

Haoyu Debug, unit= TES , t= 12.0 , curr= 501035.514 , V1= 501004.074 , r(MW)= -35.837 , vp(MW)= -4.398

Haoyu Debug, unit= TES , t= 13.0 , curr= 501041.031 , V1= 501003.327 , r(MW)= -36.957 , vp(MW)= 0.746

Haoyu Debug, unit= TES , t= 14.0 , curr= 501039.370 , V1= 501002.737 , r(MW)= -36.042 , vp(MW)= 0.589

Haoyu Debug, unit= TES , t= 15.0 , curr= 501022.175 , V1= 501001.780 , r(MW)= -19.437 , vp(MW)= 0.957

DEBUGG ... ... Time 12 (12.0) Component "TES" Resource "electricity": Reference Governor Violation

DEBUGG added validation constraint "TES\_electricity\_12\_vld\_limit\_constr\_2"

DEBUGG ... ... Time 13 (13.0) Component "TES" Resource "electricity": Reference Governor Violation

DEBUGG added validation constraint "TES\_electricity\_13\_vld\_limit\_constr\_2"

DEBUGG ... ... Time 14 (14.0) Component "TES" Resource "electricity": Reference Governor Violation

DEBUGG added validation constraint "TES\_electricity\_14\_vld\_limit\_constr\_2"

DEBUGG ... ... Time 15 (15.0) Component "TES" Resource "electricity": Reference Governor Violation

DEBUGG added validation constraint "TES\_electricity\_15\_vld\_limit\_constr\_2"

Attempt 3:

Haoyu Debug, unit= BOP , t= 12.0 , curr= 1130.838 , V1= 1130.838 , r(MW)= 1130.838 , vp(MW)= 1130.838

Haoyu Debug, unit= BOP , t= 13.0 , curr= 1130.838 , V1= 1130.838 , r(MW)= 1130.838 , vp(MW)= 1130.838

Haoyu Debug, unit= SES , t= 12.0 , curr= 18.557 , V1= 19.317 , r(MW)= 18.557 , vp(MW)= 19.317

Haoyu Debug, unit= SES , t= 13.0 , curr= 32.827 , V1= 32.827 , r(MW)= 32.827 , vp(MW)= 32.827

Haoyu Debug, unit= TES , t= 12.0 , curr= 501004.074 , V1= 501003.691 , r(MW)= -4.398 , vp(MW)= -4.014

Haoyu Debug, unit= TES , t= 13.0 , curr= 501003.327 , V1= 501002.298 , r(MW)= 0.363 , vp(MW)= 1.392

DEBUGG ... ... Time 12 (12.0) Component "SES" Resource "electricity": Reference Governor Violation

DEBUGG added validation constraint "SES\_electricity\_12\_vld\_limit\_constr\_2"

DEBUGG ... ... Time 12 (12.0) Component "TES" Resource "electricity": Reference Governor Violation

DEBUGG added validation constraint "TES\_electricity\_12\_vld\_limit\_constr\_3"

DEBUGG ... ... Time 13 (13.0) Component "TES" Resource "electricity": Reference Governor Violation

DEBUGG added validation constraint "TES\_electricity\_13\_vld\_limit\_constr\_3"

Attempt 4:

Haoyu Debug, unit= BOP , t= 12.0 , curr= 1130.077 , V1= 1130.077 , r(MW)= 1130.077 , vp(MW)= 1130.077

Haoyu Debug, unit= SES , t= 12.0 , curr= 19.317 , V1= 19.317 , r(MW)= 19.317 , vp(MW)= 19.317

Haoyu Debug, unit= TES , t= 12.0 , curr= 501004.074 , V1= 501003.691 , r(MW)= -4.398 , vp(MW)= -4.014

DEBUGG ... ... Time 12 (12.0) Component "TES" Resource "electricity": Reference Governor Violation

Attempt 5:

Haoyu Debug, unit= BOP , t= 12.0 , curr= 1130.077 , V1= 1130.077 , r(MW)= 1130.077 , vp(MW)= 1130.077

Haoyu Debug, unit= SES , t= 12.0 , curr= 19.317 , V1= 19.317 , r(MW)= 19.317 , vp(MW)= 19.317

Haoyu Debug, unit= TES , t= 12.0 , curr= 501004.074 , V1= 501003.691 , r(MW)= -4.398 , vp(MW)= -4.014

DEBUGG ... ... Time 12 (12.0) Component "TES" Resource "electricity": Reference Governor Violation