

demand: electideard W2It+S2It+ F2It ? EIt at indust Cx. GLZIt + EZIt + GSZIt > GIt Gas demend SzHtW2Ht + F2Ht = elect out home capacity constraint:

given TS (MW)

Power (MWh)

4 = energy Wt = Capacity x profile electrity St = Capacity x profit W2Et+ S2Et & Capacity E E2Ft+ GS2F++ c. GL2Ft < Capacity = GSt & Capacity GS GLF & Capacit GL objective: inventory: 261t. Cd + short-term? transportation: GL2[ liquity: FZGL gasify: G12F

fixed setup cost: Wind + solar

fuel-cell: Capacity & Fixed
electrolyser Capacity

decision vars:

capacity of wind

apacity of electricity zer

decision apacity of fuel cell optionize.

capacity of storages

capacity of

all net nork flow! GL, GS

find: decay route

all associated cost

time related maintainer cost for inventor

transportation cost

capacity cost

in terms monetary value