

\*\*\*\*\*HERA\*\*\*\*\*

\* The data in this code refers to the case of Itacava with 260 MW electrolysis

set hplus/h0\*h8761/;

set h(hplus) /h1\*h8760/;

set itech /PEM,ALC/;

set fuel /GN,Eta,Bio/;

set pipe/A,B,C,D,E/;

set i 'set to drive the loop' /i1\*i100/;

scalar Nhours /8760/;

scalar LHV 'Lower heating value for H2, in kWh/kg'/33.324/;

scalar Ro 'Air density of the region, in kg/m3'/1.18/;

scalar PWP 'Water process price (in USD/kg)'/0.00564/;

scalar WTdessa 'Transportation of dessalinated water until eletrolysis in USD/kgH2 for 100 km'/0.055/;

\*scalar CCeff 'Efficiency of carbon capture on SR'/0.85/;

scalar O2P 'Oxygen price, in USD per m3'/ 0.13/ ;

scalar roO2 'Density of Oxygen, in kg per m3'/1.309/;

\*scalar H2d 'hydrogen demand, in kg/year'/705575/;

scalar dr 'discount rate'/0.085/;

scalar liP 'life of the project, in years'/20/;

scalar CarbonTa 'Carbon tax, in USD/kgCO2'/0.00/;

scalar limCO2 'Limit of CO2 emissions, in kgCO2/kgH2'/9999999E7/;

scalar limTr 'Limit of electricity from the Grid, in kW'/0/;

scalar LimSell 'Limit of selling electricity to the Grid, in kW'/0/;

scalar efac 'emission factor of the grid (in kgCO2/kWh)'/0.0438/;

scalar importcost 'Import cost of hydrogen, just for the model not to be unfeasible'/3000000/;

scalar Lenght 'Distance of the production site to the demand straight, in m'/73000/;

scalar LenghtRoadway 'Distance of the production site to the demand VIA ROADWAYS, in m'/99000/;

scalar LenghtSMR 'Distance of the SMR plant to the demand, in m'/1000/;

parameter H2d(h) 'Demand of hydrogen, in kg/h' /

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h8298	4666.5
h8299	4666.5
h8300	4666.5
h8301	4666.5
h8302	4666.5
h8303	4666.5
h8304	4666.5
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h8306	4666.5
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h8309	4666.5
h8310	4666.5
h8311	4666.5
h8312	4666.5
h8313	4666.5
h8314	4666.5
h8315	4666.5
h8316	4666.5
h8317	4666.5
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h8320	4666.5
h8321	4666.5
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h8347	4666.5
h8348	4666.5
h8349	4666.5
h8350	4666.5
h8351	4666.5
h8352	4666.5
h8353	4666.5
h8354	4666.5
h8355	4666.5
h8356	4666.5
h8357	4666.5
h8358	4666.5
h8359	4666.5
h8360	4666.5
h8361	4666.5
h8362	4666.5
h8363	4666.5
h8364	4666.5
h8365	4666.5
h8366	4666.5
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h8378	4666.5
h8379	4666.5
h8380	4666.5
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h8398	4666.5



h8399	4666.5
h8400	4666.5
h8401	4666.5
h8402	4666.5
h8403	4666.5
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h8445	4666.5
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h8449	4666.5
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h8473	4666.5
h8474	4666.5
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h8502	4666.5
h8503	4666.5
h8504	4666.5
h8505	4666.5
h8506	4666.5
h8507	4666.5
h8508	4666.5
h8509	4666.5
h8510	4666.5
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h8598	4666.5
h8599	4666.5
h8600	4666.5
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h8604	4666.5
h8605	4666.5
h8606	4666.5
h8607	4666.5
h8608	4666.5
h8609	4666.5
h8610	4666.5
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h8639	4666.5
h8640	4666.5
h8641	4666.5
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h8643	4666.5
h8644	4666.5
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h8646	4666.5



h8647	4666.5
h8648	4666.5
h8649	4666.5
h8650	4666.5
h8651	4666.5
h8652	4666.5
h8653	4666.5
h8654	4666.5
h8655	4666.5
h8656	4666.5
h8657	4666.5
h8658	4666.5
h8659	4666.5
h8660	4666.5
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h8662	4666.5
h8663	4666.5
h8664	4666.5
h8665	4666.5
h8666	4666.5
h8667	4666.5
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h8670	4666.5
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h8674	4666.5
h8675	4666.5
h8676	4666.5
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h8679	4666.5
h8680	4666.5
h8681	4666.5
h8682	4666.5
h8683	4666.5
h8684	4666.5
h8685	4666.5
h8686	4666.5
h8687	0.00
h8688	0.00
h8689	0.00
h8690	0.00
h8691	0.00
h8692	0.00
h8693	0.00
h8694	0.00
h8695	0.00
h8696	0.00
h8697	0.00
h8698	0.00
h8699	0.00
h8700	0.00
h8701	0.00
h8702	0.00
h8703	0.00
h8704	0.00
h8705	0.00
h8706	0.00
h8707	0.00
h8708	0.00

h8709	0.00
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h8744	0.00
h8745	0.00
h8746	0.00
h8747	0.00
h8748	0.00
h8749	0.00
h8750	0.00
h8751	0.00
h8752	0.00
h8753	0.00
h8754	0.00
h8755	0.00
h8756	0.00
h8757	0.00
h8758	0.00
h8759	0.00
h8760	0.00

;/

parameter H2dMax 'Maximum demand of hydrogen in kg/h';

H2dMax=0;

loop(h,

  if (H2d(h) gt H2dMax,

    H2dMax = H2d(h);

  );

);

Display 'Maximum demand of hydrogen', H2dMax;

parameter TH2d 'Total demand of hydrogen in kg/year';

TH2d=0;

loop(h,

    TH2d = TH2d+H2d(h);

);

Display 'The total demand of hydrogen per year', TH2d;

\*Electrolysers\*

scalar PTW 'Price of the water for the electrolyser (treated water), in USD/kgH2'/0.01323/;

scalar DTW 'Demand of water for the electrolyser(ultrapure water), in kg/kgH2'/9/;

scalar DPW 'Demand of cooling water for the electrolyser, in kg/kgH2'/18/;

scalar EleOMCostPerc 'O&M cost for electrolysers in %'/0.03/;

parameter p(itech) 'Capacity of electrolyser, in kW'/

PEM 1000

ALC 20000

/;

parameter eff(itech) 'Efficiency of electrolyser'/

PEM 0.60

ALC 0.70

/;

parameter MaxProdH2(itech) 'Maximum hydrogen production in each module of electrolyser';

MaxProdH2(itech)=eff(itech)\*p(itech)/LHV;

Parameter Stack(itech)'Stack cost, to be substituted every 7 years, in USD/kW'/

PEM 580

ALC 345

/;

Parameter ElecCapCost(itech)'Capital cost of electrolyser, in USD/kW'/

PEM 1770

ALC 1400

/;

Parameter EleOMCost(itech)'O&M cost of electrolyser, in USD/(kWyear)';

EleOMCost(itech)=ElecCapCost(itech)\*EleOMCostPerc;

Parameter techcostfi(itech)'Fixed costs of electrolysers';

techcostfi(itech) = ((dr\*(1+dr)\*\*liP)/(((1+dr)\*\*liP)-1))\*(ElecCapCost(itech)+(Stack(itech)/((1+dr)\*\*7))+

(Stack(itech)/((1+dr)\*\*14)))+EleOMCost(itech))\*p(itech)

;

Parameter techcostru(itech)'Running cost of electrolyser, in USD/kgH2'/

PEM 0

ALC 0

/;

**\*Wind turbines\***

scalar  $I_w$  'Number of wind turbines'/1/;

scalar  $W_{eff}$  'Efficiency of the wind turbine'/0.95/;

scalar  $W_{cutin}$  'cut-in speed for wind turbine, in m/s'/3/;

scalar  $W_{nominal}$  'nominal speed for wind turbine, in m/s'/12/;

scalar  $W_{cutout}$  'cut-out speed for wind turbine, in m/s'/25/;

scalar  $W_{Capacity}$  'Capacity of wind turbine, in kW'/3200/;

scalar  $C_p$  'Cp of the rotor, characteristic of the wind turbine'/0.45/;

scalar  $W_{Rad}$  'Area of the rotor, characteristic of the wind turbine, in m<sup>2</sup>'/112/;

scalar  $W_{CapCost}$  'Capital cost for the wind turbines, in USD/kWâ€™'/833/;

scalar  $W_{OMcost}$  'O&M cost for the wind turbines, in USD/(kW\*year)'/16.7/;

parameter  $W_{costfi}$  'Fixed costs of wind turbines';

$W_{costfi} = ((dr*(1+dr)**liP)/(((1+dr)**liP)-1)*W_{CapCost}+W_{OMCost})*W_{Capacity}$

;

scalar  $W_{costru}$  'running cost of operating wind turbines, in USD/kWh'/0.000/;

Display 'Fixed costs of wind turbines:', $W_{costfi}$ ;

**\*Solar PV\***

scalar  $I_{pv}$  'Number of solar PV farms of 2 MW'/0/;

scalar PVCapacity 'Power of PV plant, in kW' /2000/;

\*scalar Ctp 'The photovoltaic (PV) temperature coefficient of power, in %/°C' /-0.48/;

scalar PVCapCost 'Capital cost of the PV plant, in USD/kW' /788/;

scalar PVOMcost 'O&M cost of the PV plant, in USD/(kW\*year)' /10/;

Parameter PVcostfi 'Fixed costs of PV solar plants';

$$PVcostfi = ((dr*(1+dr)**liP)/(((1+dr)**liP)-1)*PVCapCost+PVOMCost)*PVCapacity$$

;

scalar PVcostru 'running cost of operating solar PV, in USD/kWh' /0.000/;

Display 'Fixed costs of PV solar plants:',PVcostfi;

**\*Batteries\***

scalar lo 'Round-trip efficiency of the battery' /0.95/;

scalar BatCapacity 'Capacity of the battery, in kWh' /3700/;

scalar limPbat 'Maximum power of the battery, in kW' /960/;

scalar Bat0 'Initial state of charge of battery' /3700/;

scalar BatCapCost 'Capital cost of the battery, in USD/kWh' /150/;

scalar BatOMCost 'O&M cost of the battery, in USD/(kW\*year)' /30/;

parameter Batcostfi 'Fixed costs of batteries';

$$Batcostfi = ((dr*(1+dr)**liP)/(((1+dr)**liP)-1)*BatCapCost+BatOMCost)*limPbat$$

;

scalar Batcostru 'running cost of discharging the battery, in USD/(kWh-cycle)' /0.00085/;

Display 'Fixed costs of batteries:',Batcostfi;



\*Steam Reform\*

scalar CapH2SR 'Capacity of steam reform, in kg/h'/5000/;

scalar OMSRcostperc 'O&M cost of SMR in percentage'/0.03/;

scalar WSR 'Process water consumption for the production of H2 via steam reform (in kg/kgH2)'/0/;

scalar WCC 'Process water consumption for the production of H2 via Carbon capture on SR (in kg/kgH2)'/30.78/;

scalar eleSR 'Electricity consumption for the production of H2 via steam reform (in kWh/kgH2)'/0.1312/;

scalar Pcat 'Price of catalyst for SMR, in USD/kgH2'/0.04/;

parameter SRCapacity(fuel)'Capacity of steam reform, in kgH2/day'/

Eta 1500

GN 120000

Bio 1500

/;

parameter SRCapCost(fuel)'Capital cost of steam reform, in USD/kgH2'/

Eta 957

GN 41.9

Bio 957

/;

parameter SROMCost(fuel)'O&M costs of steam reform, in USD/(kgH2\*year)';

SROMCost(fuel)=SRCapCost(fuel)\*OMSRcostperc;

Parameter SRcostfi(fuel)'Fixed costs of steam reform';

$$SRcostfi(fuel) = ((dr*(1+dr)**liP)/(((1+dr)**liP)-1))*SRCapCost(fuel)+SROMCost(fuel))*SRCapacity(fuel)$$

;

Display 'Fixed costs of steam reform:',SRcostfi;

parameter SRcostru(fuel)'running cost of operating steam reform, in USD/kgH2'/

Eta 0

GN 0

Bio 0

/;

parameter FuC(fuel) 'Fuel consumption for the H2 production via SR (in kg/kgH2 for liq and m3/kgH2 for gases)'/

Eta 6.49

GN 4.81

Bio 0

/;

parameter FuP(fuel) 'Fuel price (in USD/kg for liquids and USD/m3 for gases)'/

Eta 0.7522

GN 0.5485

Bio 0

/;

parameter SRCO2(fuel) 'CO2 emissions from steam reform, in kgCO2/kgH2'/

Eta 0

GN 9.5

Bio 0

/;

\*Carbon capture on steam reform\*

scalar CCCapacity'Capacity of steam reform with carbon capture, in kgH2/day'/241500/;

scalar CCCapCost'Capital cost of carbon capture for SR, in USD/kgH2'/1062/;

scalar CCOMCostpercen'O&M costs of carbon capture for SR, in percent'/0.03/;

scalar CCcostru'running cost of operating carbon capture in SR, in USD/kgH2'/0/;

\*scalar EfCC 'Efficiency of carbon capture on SR'/0.8/;

Scalar CCFuC'Fuel consumption for carbon capture in SR (in kg/kgH2 for liquids and m3/kgH2 for gases)'/5.12/;

scalar eleSRCC 'Electricity consumption for the production of H2 via SR with CCS(in kWh/kgH2)'/1.5026/;

scalar CCCO2'CO2 emissions from steam reform with carbon capture, in kgCO2/kgH2'/1.5/;

Parameter CCOMCost'O&M costs of carbon capture for SR, in USD/(kgH2\*year)';

CCOMCost=CCOMCostpercen\*CCCapCost;

Parameter CCcostfi'Fixed costs of carbon capture in SR';

CCcostfi = ((dr\*(1+dr)\*\*liP)/(((1+dr)\*\*liP)-1)\*CCCapCost+CCOMCost)\*CCCapacity

;

Display 'Fixed costs of carbon capture in SR',CCcostfi;

\*Compressors\*

scalar Z 'Compressibility factor, dimensionless'/1.027/;

scalar R 'Gases constant, in kJ/(kg\*K)' /4.12/;

scalar T 'Inlet temperature, in K'/293/;

scalar N 'Number of stages of compression'/3/;

scalar Ni 'Isentropic efficiency of compression'/0.88/;

scalar k 'Ratio of specific heats'/1.41/;

scalar efComp 'Efficiency of the compression stations'/0.95/;

scalar OMCSta 'O&M cost for compressors, percentage'/0.03/;

scalar alfaCS 'scale factor for compressors'/0.8/;

scalar CompCostBasis 'Capital cost for a compressor known in USD'/4656000/;

scalar CompSizeBasis 'Power of a compressor known in kW'/4000/;

scalar Pstorage 'Pressure for the storage, in Pa'/35000000/;

parameter Pelec(itech) 'Pressure of hydrogen in the electrolyser, in Pa'/

ALC 1500000

PEM 3000000

/;

\*\*\*\*\*Verificar pressÃ£o no H2 no SMR\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

parameter Psr'Pressure of hydrogen in the SMR, in Pa'/1000000/;

\*For electrolysers\*

parameter eleCompElec(itech)'Energy required in the compressors for electrolysers, in kWh/kgH2';

$$\text{eleCompElec(itech)} = (Z * R * T * N * (1 / \text{Ni}) * (k / (k - 1))) * (((P_{\text{storage}} / \text{Pelec(itech)}) ** ((k - 1) / (N * k))) - 1)) * 0.000277778;$$

Display 'Energy required in the electrolyser compressors, in kWh/kgH2', eleCompElec;

parameter SizeCompElec(itech) 'Power capacity of the compressor for electrolyser, in kW';

$$\text{SizeCompElec(itech)} = (\text{eleCompElec(itech)} * \text{MaxProdH2(itech)}) / \text{EfComp};$$

Display 'Power capacity for the electrolyser compressors, in kW', SizeCompElec;

parameter CapCostCompElec(itech)'Capital cost of the compressor, in USD';

CapCostCompElec(itech) = CompCostBasis\*(SizeCompElec(itech)/CompSizeBasis)\*\*alfaCS;

Display 'Capital cost of the electrolyser compressor, in USD', CapCostCompElec;

parameter OMCostCompElec(itech)'O&M cost of the electrolyser compressors, in USD/year';

OMCostCompElec(itech)= CapCostCompElec(itech)\*OMCSta;

parameter CompElecostfi(itech) 'Fixed costs of the electrolyser compressors in USD/year';

CompElecostfi(itech) = (((dr\*(1+dr)\*\*liP)/(((1+dr)\*\*liP)-1))\*CapCostCompElec(itech))+OMCostCompElec(itech));

\*For SMR\*

parameter eleCompSR'Energy required in the compressors for SMR, in kWh/kgH2';

eleCompSR =(Z\*R\*T\*N\*(1/Ni)\*(k/(k-1))\*((Pstorage/Psr)\*\*((k-1)/(N\*k))-1))\*0.000277778;

Display 'Energy required in the SMR compressors, in kWh/kgH2', eleCompSR;

parameter SizeCompSR 'Power capacity of the compressors for SMR, in kW';

SizeCompSR = eleCompSR\*CapH2SR/EfComp;

Display 'Total power capacity for the SMR compressors, in kW', SizeCompSR;

parameter CapCostCompSR'Capital cost of the compressors for SMR, in USD';

CapCostCompSR = CompCostBasis\*(SizeCompSR/CompSizeBasis)\*\*alfaCS;

Display 'Capital cost of the SMR compressor, in USD', CapCostCompSR;

parameter OMCostCompSR'O&M cost of the compressors for SMR, in USD/year';

OMCostCompSR= CapCostCompSR\*OMCSta;

parameter CompSRcostfi 'Fixed costs of the compressors for SMR, in USD/year';

CompSRcostfi = (((dr\*(1+dr)\*\*liP)/(((1+dr)\*\*liP)-1))\*CapCostCompSR)+OMCostCompSR);

\*Logistics\*

\*Hydrogen storage\*

scalar StoCapa 'Capacity of each unit of storage, in kg'/500/;

scalar H2StoCapCost 'Capital cost of the hydrogen storage, in USD/kg'/723/;

scalar OMStorage 'O&M cost for storage, percentage'/0.03/;

scalar SH20 'Initial mass of hydrogen in the storage in percentage'/0.1/;

scalar cushion 'Cushion gas, minimum volume of gas to keep pressure'/0.3/;

Scalar PH2 'Price of initial hydrogen in the storage in USD/kg'/6/;

parameter H2StoOMCost 'O&M cost of the hydrogen storage in USD/(kg\*year)';

H2StoOMCost = H2StoCapCost\*OMStorage;

parameter H2Stocostfi 'Fixed costs of the hydrogen storage, for one unit';

$$H2Stocostfi = ((dr*(1+dr)**liP)/(((1+dr)**liP)-1)*H2StoCapCost+H2StoOMCost)*StoCapa$$

;

\*Pipelines\*

scalar alfaPipe 'scale factor for pipelines'/0.9/;

scalar PipeCostBasis 'Capital cost for a pipeline known in USD/m'/376/;

scalar DiameterBasis 'Internal diameter of a pipe known in m'/0.07/;

scalar OMPipe 'O&M cost for pipelines, percentage'/0.03/;

scalar DenH2 'Density of hydrogen at 100 bar, in kg/m3'/7.8/;

scalar Mi 'Viscosity of hydrogen, in Pa\*s'/0.0000091533/;

scalar epsilon 'Roughness of the pipelines, in m' /0.0000178/;

scalar Ptarget 'Initial pressure inside the pipeline that should be maintained, in Pa'/10000000/;

scalar Pmin 'Minimum pressure inside pipelines, in Pa'/2000000/;

scalar liPPipe 'life of the pipelines, in years'/50/;

parameter NomDiameter(pipe) 'Diameter of the pipe, in in'/

A 4

B 6

C 8

D 10

E 12

/;

parameter EspeP(pipe)'Thickness of the pipe, in m'/

A 0.00602

B 0.00711

C 0.00818

D 0.00927

E 0.00953

/;

parameter diameter(pipe) 'Internal diameter of the pipe, in m';

diameter(pipe)= (NomDiameter(pipe)\*2.54/100)-2\*EspeP(pipe);

Display 'Internal diameter of the pipe, in m', diameter;

parameter PipeCapCost(pipe)'Capital cost of the pipe, in USD/m';

PipeCapCost(pipe)= PipeCostBasis\*(diameter(pipe)/DiameterBasis)\*\*alfaPipe;

Display 'Capital cost of the pipelines, in USD', PipeCapCost;

parameter PipeOMCost(pipe)'O&M cost of the pipe, in USD/(m\*year)';

PipeOMCost(pipe)= PipeCapCost(pipe)\*OMPipe;

Parameter H2FlowH'Flow of hydrogen in pipelines, in m3/h';

H2FlowH=H2dMax/DenH2;

Parameter H2FlowSec 'Flow of hydrogen in pipelines, in m3/s';

H2FlowSec = H2FlowH/3600;

Parameter Area(pipe)'Area of the transversal section of the pipe, in m2';

Area(pipe)=3.14159\*(diameter(pipe)\*\*2)/4;

Parameter MaxSpeed(pipe) 'Maximum speed of H2 in the pipelines, in m/s';

MaxSpeed(pipe) = H2FlowSec/Area(pipe);

Parameter Re(pipe)'Reynolds Number';

Re(pipe) = diameter(pipe)\*MaxSpeed(pipe)\*DenH2/Mi;

Parameter fad(pipe) 'Friction factor';

fad(pipe)= (-1/(1.8\*log10((((epsilon/diameter(pipe))/3.7)\*\*1.11)+(6.9/Re(pipe)))))\*\*2;

Parameter DP(pipe) 'Pressure drop, in Pa/m';

DP(pipe) =  
(8\*fad(pipe)\*((H2FlowSec\*DenH2)\*\*2))/((3.14159\*\*2)\*DenH2\*(diameter(pipe)\*\*5));

Parameter TDP 'Total pressure drop, in Pa';

TDP=Ptarget-Pmin;



Parameter LenghtCS(pipe) 'Distance between compression stations in m';

$LenghtCS(pipe) = TDP/DP(pipe);$

Display 'Distance between compression stations in m', LenghtCS;

parameter Pipecostfi(pipe) 'Fixed costs of pipelines';

$Pipecostfi(pipe) = ((dr*(1+dr)**liPPipe)/(((1+dr)**liPPipe)-1)*PipeCapCost(pipe) + PipeOMCost(pipe))*LenghtRoadway;$

parameter PipecostfiSMR(pipe) 'Fixed costs of pipelines for SMR w and wo CCS';

$PipecostfiSMR(pipe) = ((dr*(1+dr)**liPPipe)/(((1+dr)**liPPipe)-1)*PipeCapCost(pipe) + PipeOMCost(pipe))*LenghtSMR;$

Parameter UnitPipecostfi(pipe)'Unit fixed cost for pipelines in USD/kgH2';

$UnitPipecostfi(pipe) = Pipecostfi(pipe)/TH2d;$

Display 'Unit fixed cost for pipelines in USD/kgH2', UnitPipecostfi;

Parameter UnitPipecostfiSMR(pipe)'Unit fixed cost for SMR pipelines in USD/kgH2';

$UnitPipecostfiSMR(pipe) = PipecostfiSMR(pipe)/TH2d;$

Display 'Unit fixed cost for SMR pipelines in USD/kgH2', UnitPipecostfiSMR;

\*Compression stations\*

Parameter RCS(pipe) 'Number of compression stations real number';

Parameter NCS(pipe) 'Number of compression stations integer number';

$RCS(pipe) = LenghtRoadway/LenghtCS(pipe);$

Parameter adjCS(pipe);

```
adjCS(pipe)=round(RCS(pipe));
```

```
loop (pipe,
```

```
  If (adjCS(pipe) >= RCS(pipe),
```

```
    NCS(pipe)=adjCS(pipe)-1;
```

```
  else
```

```
    NCS(pipe)=adjCS(pipe)
```

```
);
```

```
);
```

```
Display 'Number of compression stations', NCS;
```

```
parameter TECompStation 'Energy required in the compression stations, in kWh/year';
```

```
TECompStation =(Z*R*T*N*(1/Ni)*(k/(k-1))*(((Ptarget/Pmin)**((k-1)/(N*k))-1))*0.000277778*TH2d;
```

```
Display 'Total energy required in the compression stations, in kWh/year', TECompStation;
```

```
parameter SizeCompStation 'Power of the compressor for compression stations in kW';
```

```
SizeCompStation= TECompStation/(Nhours*EfComp);
```

```
Display 'Total power for the compression stations in kW', SizeCompStation;
```

```
Parameter LenghtFinal(pipe) 'Distance between the last compression station and the demand in m';
```

```
LenghtFinal(pipe)=LenghtRoadway-NCS(pipe)*LenghtCS(pipe);
```

```
Display 'Distance between the last compression station and the demand in m', LenghtFinal;
```

```
parameter Plast(pipe) 'Pressure at the end of the pipelines before arriving at the demand in Pa';
```

```
Plast(pipe)= Ptarget-(DP(pipe)*LenghtFinal(pipe));
```

```
Display 'Pressure at the end of the pipelines before arriving at the demand in Pa', Plast;
```

parameter ELastCS(pipe)'Total energy required in the LAST compression station, in kWh/year';

$$E_{LastCS}(pipe) = (Z \cdot R \cdot T \cdot N \cdot (1/N_i) \cdot (k/(k-1))) \cdot (((P_{target}/P_{last}(pipe))^{**((k-1)/(N \cdot k))} - 1)) \cdot 0.000277778 \cdot TH2d;$$

Display 'Total energy required in the LAST compression station, in kWh/year', ELastCS;

parameter SizeLastCS(pipe) 'Power of the compressor for the LAST compression station in kW';

$$Size_{LastCS}(pipe) = E_{LastCS}(pipe) / (N_{hours} \cdot E_{fComp});$$

Display 'Power of the compressor for the LAST compression station in kW', SizeLastCS;

parameter CompSCapCost'Capital cost of the compressor, in USD';

$$CompSCapCost = CompCostBasis \cdot (Size_{CompStation} / CompSizeBasis)^{**\alpha_{CS}};$$

Display 'Capital cost of the compressor, in USD', CompSCapCost;

parameter CompSOMCost'O&M cost of the compression stations, in USD/year';

$$CompSOMCost = CompSCapCost \cdot OMC_{Sta};$$

parameter LastCSCapCost(pipe)'Capital cost of the LAST compressor, in USD';

$$LastCSCapCost(pipe) = CompCostBasis \cdot (Size_{LastCS}(pipe) / CompSizeBasis)^{**\alpha_{CS}};$$

Display 'Capital cost of the compressor, in USD', LastCSCapCost;

parameter LastCSOMCost(pipe)'O&M cost of the last compression station, in USD/year';

$$LastCSOMCost(pipe) = LastCSCapCost(pipe) \cdot OMC_{Sta};$$

parameter CompScostfi 'Fixed costs of the compression stations in USD/year';

$$CompScostfi = (((dr \cdot (1+dr)^{**liP}) / (((1+dr)^{**liP}) - 1)) \cdot CompSCapCost) + CompSOMCost;$$

parameter LastCScostfi(pipe) 'Fixed costs of the LAST compression stations in USD/year';

$$LastCScostfi(pipe) = (((dr \cdot (1+dr)^{**liP}) / (((1+dr)^{**liP}) - 1)) \cdot LastCSCapCost(pipe)) + LastCSOMCost(pipe);$$

\*Trucks\*

\*I considered the trucks will attend the demand for each day:\*

scalar Tload 'Time for loading and unloading the truck, in hours'/1/;

scalar speedTruck 'Average Speed for the truck, in km/h'/40/;

scalar TruckSize 'Capacity of the truck in kgH2 per travel'/885/;

scalar Salary 'Salary of truck drivers in USD/hour'/10/;

scalar TruckCapCost 'Capital cost of trucks for H2 transportation, tube trailers, in USD/truck'/736230/;

scalar FuelTruck 'Fuel consumption (diesel) for trucks transporting hydrogen in km/L'/2.86/;

scalar FuelPriTruck 'Price of the fuel (diesel) for transporting hydrogen, in USD/L'/1/;

scalar TruckOM 'O&M cost for trucks in percentage of investment'/0.03/;

scalar FCTruck 'Capacity factor of trucks'/0.9/;

scalar MaxkmTruck 'Maximum distance for replacement of engine/truck in km'/500000/;

scalar ReplacCost 'Replacement cost of trucks in percentage of investment cost'/0.3/;

scalar efacDiesel 'Average emission factor of diesel, in kgCO2/L' /2.7/;

parameter DH2d 'average daily demand in kgH2/day';

$DH2d = TH2d / (Nhours / 24)$ ;

Display 'The total demand of hydrogen per day', DH2d;

parameter value(i) 'Parameter to drive the loop';

value(i)=ord(i);

Parameter TruckOMCost 'O&M cost of trucks for H2 transportation, in USD/(truck\*year)';

$TruckOMCost = TruckOM * TruckCapCost$ ;

Parameter TimeTravel 'Time the truck takes for 1 round trip';

TimeTravel=((2\*LenghtRoadway/1000)/speedTruck)+2\*Tload;

Display 'TimeTravel',TimeTravel ;

Parameter Rh 'Total number of hours the truck drivers work per day, real number';

Rh=(DH2d/TruckSize)\*TimeTravel;

Parameter Nh 'Total number of hours the truck drivers work per day, integer number';

Parameter adjusR;

adjusR=round(Rh);

  If (adjusR lt Rh,

    Nh=adjusR+1;

  else

    Nh=adjusR

);

Display 'Total number of hours the truck drivers work per day, integer number', Nh;

Parameter Rvt 'Number of travels per truck per day real number';

Rvt= 24/TimeTravel;

Parameter Nvt 'Number of travels per truck per day integer number';

Parameter adjusR2;

adjusR2=round(Rvt);

  If (adjusR2 gt Rvt,

    Nvt=adjusR2-1;

  else

    Nvt=adjusR2

);

Display 'Number of travels per truck per day integer number', Nvt;

Parameter Rt 'Number of trucks real number';

```

Rt = (DH2d/(Nvt*TruckSize*FCTruck));
Parameter Nt 'Number of trucks integer number';
Parameter adjusR3;
adjusR3=round(Rt);
  If (adjusR3 lt Rt,
    Nt=adjusR3+1;
  else
    Nt=adjusR3
  );

```

```

Display 'Number of trucks', Nt;

```

```

parameter Tokm 'Total distance each truck runs per day';
Tokm=(2*LenghtRoadway/1000)*Nvt;

```

```

Display 'Total distance each truck runs per day in km', Tokm;

```

```

parameter LiPTruck 'Time of life for the truck in years';
LiPTruck=MaxkmTruck/(Tokm*365*FCTruck);

```

```

Display 'Time life for the truck in years', LiPTruck;

```

```

parameter NTiRepl 'Times of replacement the truck integer number';
parameter RTiRepl 'Times of replacement the truck real number';
RTiRepl=LiP/LiPTRuck;
Parameter adjusR4;
adjusR4=round(RTiRepl);
  If (adjusR4 ge RTiRepl,
    NTiRepl=adjusR4-1;
  else
    NTiRepl=adjusR4
  );

```

);

Display 'Times of replacement the truck', NTiRepl;

parameter ni 'Parameter to drive the loop';

ni=0;

parameter ReplaAnnu 'Parameter to drive the loop';

ReplaAnnu=0;

loop (i\$(value(i) le NTiRepl),

ni=ni+LiPTruck;

ReplaAnnu=ReplaAnnu+((ReplacCost\*TruckCapCost)/((1+dr)\*\*(ni)));

);

Display 'Total cost with replacement of trucks',ReplaAnnu;

parameter Truckcostfi 'Fixed costs for trucks in USD/year';

Truckcostfi = ((dr\*(1+dr)\*\*liP)/(((1+dr)\*\*liP)-1))\*((TruckCapCost+ReplaAnnu)+TruckOMCost)\*Nt;

Display 'Fixed costs for all the trucks in USD/year', Truckcostfi;

parameter TruckcostFuel 'Fuel costs for trucks, in USD/year';

TruckcostFuel = 7\*4\*Tokm\*Nt\*FCTruck\*(FuelPriTruck/FuelTruck);

Display 'Fuel costs for trucks, in USD/year', TruckcostFuel;

parameter CostSal 'Cost with salaries of the truck drivers, in USD/year';

$CostSal = Salary * Nh * 7 * 4;$

Display 'Cost with salaries of the truck drivers, in USD/year', CostSal;

parameter CO2TRuck 'Total CO2 emissions from truck transport in kgCO2';

$CO2Truck = 7 * 4 * Tokm * Nt * FCTruck * (efacDiesel / FuelTruck);$

Display 'Total CO2 emissions from truck transport in kgCO2', CO2TRuck;

parameter CostTrucks 'Total cost of transportation via trucks';

$CostTrucks = Truckcostfi + TruckcostFuel + CostSal;$

parameter WGEN(h) 'Wind turbine generation, in kWh'

/

h1 2272.94

h2 2149.68

h3 403.92

h4 495.28

h5 323.88

h6 205.05

h7 805.26

h8 257.19

h9 175.11

h10 223.83

h11 232.23

h12 68.79

h13 36.94

h14 211.45

h15 201.35

h16 102.07



h17	28.20
h18	0.00
h19	0.78
h20	1.33
h21	0.00
h22	0.00
h23	0.00
h24	0.37
h25	0.00
h26	0.00
h27	0.04
h28	30.63
h29	28.90
h30	179.77
h31	440.16
h32	1237.08
h33	944.31
h34	1313.07
h35	1206.86
h36	1468.69
h37	1033.96
h38	1996.20
h39	1626.06
h40	1285.66
h41	1222.78
h42	746.96
h43	406.00
h44	302.18
h45	261.51
h46	452.46
h47	739.80

h48	108.93
h49	1052.33
h50	987.07
h51	709.75
h52	1010.60
h53	1612.60
h54	1611.12
h55	891.11
h56	44.12
h57	78.00
h58	600.21
h59	145.45
h60	604.42
h61	354.74
h62	750.44
h63	329.69
h64	590.48
h65	1943.99
h66	2071.18
h67	1765.73
h68	1345.67
h69	1777.64
h70	2261.39
h71	2155.68
h72	362.15
h73	262.73
h74	135.00
h75	148.47
h76	138.99
h77	298.70
h78	245.12

h79	1272.94
h80	514.92
h81	291.40
h82	215.33
h83	142.58
h84	412.98
h85	732.05
h86	2193.92
h87	2267.00
h88	2187.49
h89	2033.08
h90	1183.41
h91	377.20
h92	353.06
h93	110.55
h94	302.40
h95	41.93
h96	20.83
h97	1.37
h98	17.60
h99	61.76
h100	89.28
h101	34.66
h102	36.94
h103	7.10
h104	28.24
h105	115.71
h106	492.59
h107	200.60
h108	227.65
h109	223.87

h110	389.91
h111	207.27
h112	159.61
h113	82.30
h114	427.14
h115	600.13
h116	689.38
h117	1910.13
h118	2272.94
h119	1830.81
h120	2237.11
h121	1852.38
h122	1616.26
h123	533.99
h124	627.29
h125	654.00
h126	1564.15
h127	1447.22
h128	854.39
h129	880.54
h130	1340.05
h131	896.96
h132	980.51
h133	1499.80
h134	1903.31
h135	2195.27
h136	2272.94
h137	2272.94
h138	2156.64
h139	2085.44
h140	1860.43

h141	1353.21
h142	985.01
h143	183.26
h144	1601.52
h145	1956.08
h146	1691.43
h147	809.38
h148	1251.10
h149	523.55
h150	812.68
h151	178.34
h152	443.02
h153	162.07
h154	641.55
h155	293.69
h156	230.09
h157	609.77
h158	692.76
h159	2095.02
h160	1825.51
h161	2218.88
h162	1996.47
h163	1807.87
h164	1137.97
h165	1073.77
h166	862.57
h167	126.84
h168	210.21
h169	413.96
h170	156.17
h171	20.89

h172	87.68
h173	476.96
h174	359.10
h175	454.05
h176	509.78
h177	1235.53
h178	2269.01
h179	1214.36
h180	866.35
h181	372.30
h182	177.15
h183	569.98
h184	778.15
h185	777.34
h186	355.33
h187	79.40
h188	118.27
h189	2.30
h190	1.23
h191	0.73
h192	0.00
h193	0.14
h194	1.75
h195	0.89
h196	0.00
h197	6.38
h198	1.43
h199	19.85
h200	1.82
h201	13.74
h202	35.49

h203	14.64
h204	24.60
h205	92.21
h206	858.55
h207	80.54
h208	72.28
h209	117.55
h210	68.56
h211	5.51
h212	20.58
h213	0.30
h214	3.70
h215	1.49
h216	10.71
h217	18.35
h218	48.33
h219	641.27
h220	2176.94
h221	2220.00
h222	2272.94
h223	2203.25
h224	2176.96
h225	1873.66
h226	2110.97
h227	2272.94
h228	2223.83
h229	2260.46
h230	2272.94
h231	2272.94
h232	2266.50
h233	2266.65

h234	2217.38
h235	2214.05
h236	1573.09
h237	837.02
h238	891.72
h239	721.09
h240	332.46
h241	157.29
h242	98.06
h243	74.71
h244	448.79
h245	833.01
h246	1193.82
h247	2155.46
h248	2272.94
h249	2257.64
h250	2243.99
h251	2150.63
h252	2007.27
h253	2261.46
h254	2271.53
h255	2272.94
h256	2272.94
h257	2272.94
h258	2272.94
h259	2272.94
h260	2114.70
h261	380.09
h262	1355.44
h263	1583.48
h264	496.38



h265	529.00
h266	882.90
h267	267.63
h268	214.63
h269	157.79
h270	704.88
h271	346.40
h272	1105.73
h273	381.41
h274	196.61
h275	126.73
h276	219.15
h277	1127.64
h278	1919.54
h279	2187.71
h280	2214.17
h281	1992.32
h282	1343.06
h283	1337.60
h284	466.16
h285	295.17
h286	385.09
h287	1094.11
h288	409.43
h289	638.61
h290	831.76
h291	1630.05
h292	1054.15
h293	975.47
h294	994.60
h295	279.64

h296	594.27
h297	377.09
h298	110.97
h299	249.81
h300	289.03
h301	1152.09
h302	951.35
h303	1711.70
h304	2032.60
h305	2268.91
h306	549.05
h307	1434.22
h308	1737.15
h309	1742.98
h310	1017.73
h311	1827.30
h312	1028.68
h313	779.26
h314	249.33
h315	349.40
h316	569.38
h317	875.84
h318	1143.26
h319	955.00
h320	451.28
h321	1141.72
h322	2179.62
h323	2264.18
h324	2134.24
h325	2269.65
h326	2102.94

h327	1784.85
h328	177.70
h329	20.30
h330	22.89
h331	119.59
h332	61.87
h333	228.17
h334	344.58
h335	3.54
h336	49.41
h337	71.56
h338	238.26
h339	428.93
h340	90.47
h341	580.68
h342	1373.18
h343	1080.62
h344	82.71
h345	9.80
h346	178.32
h347	1.66
h348	116.78
h349	1008.70
h350	715.44
h351	2260.52
h352	2200.89
h353	1761.73
h354	2272.94
h355	1943.28
h356	1570.30
h357	542.28

h358	678.40
h359	607.48
h360	30.51
h361	187.32
h362	948.54
h363	1751.79
h364	2101.58
h365	734.28
h366	1088.17
h367	1613.83
h368	1702.20
h369	1459.19
h370	1688.26
h371	1638.29
h372	2257.32
h373	2272.94
h374	2265.68
h375	2142.00
h376	2272.94
h377	2272.94
h378	1956.43
h379	819.97
h380	417.28
h381	285.65
h382	278.93
h383	1289.58
h384	804.76
h385	627.97
h386	242.96
h387	26.20
h388	0.19

h389	1.89
h390	64.08
h391	45.78
h392	4.50
h393	53.57
h394	94.43
h395	55.88
h396	371.87
h397	755.78
h398	569.61
h399	2259.35
h400	1989.21
h401	1986.53
h402	965.41
h403	1170.28
h404	1664.92
h405	468.70
h406	113.30
h407	55.91
h408	16.01
h409	29.29
h410	37.67
h411	106.19
h412	96.60
h413	208.50
h414	596.24
h415	2261.92
h416	2272.94
h417	2272.94
h418	2271.97
h419	997.76

h420	654.18
h421	1533.07
h422	2259.19
h423	2272.94
h424	2272.94
h425	2272.94
h426	2272.94
h427	2272.77
h428	2265.46
h429	729.39
h430	1964.98
h431	2086.08
h432	689.42
h433	1086.35
h434	500.17
h435	872.85
h436	1602.30
h437	1921.93
h438	1794.24
h439	2265.91
h440	2272.94
h441	2164.87
h442	879.64
h443	870.02
h444	548.73
h445	528.23
h446	461.48
h447	365.87
h448	582.92
h449	509.32
h450	74.86

h451	801.40
h452	185.20
h453	90.64
h454	47.36
h455	42.45
h456	105.93
h457	314.32
h458	79.60
h459	139.75
h460	42.07
h461	143.32
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h3992	1543.32
h3993	958.02
h3994	771.50
h3995	323.85
h3996	132.86
h3997	179.63
h3998	1213.46
h3999	1135.26
h4000	696.58
h4001	1755.28
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h4003	1513.73
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h4007	100.39
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h4012	192.26
h4013	95.73
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h4026	146.74
h4027	179.18
h4028	390.96
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h4046	1876.94

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h4073	124.38
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h4075	61.74
h4076	59.44
h4077	0.41

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h4088	372.57
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h4093	540.84
h4094	597.15
h4095	948.60
h4096	402.28
h4097	337.91
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h4232	2.12



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h8349	260.67
h8350	411.11
h8351	231.25
h8352	235.23
h8353	476.30
h8354	250.67
h8355	116.06

h8356	394.52
h8357	378.72
h8358	1294.60
h8359	2075.46
h8360	782.57
h8361	422.73
h8362	518.50
h8363	357.23
h8364	527.83
h8365	1910.36
h8366	1927.99
h8367	1911.28
h8368	310.16
h8369	438.39
h8370	435.56
h8371	1063.16
h8372	686.95
h8373	64.23
h8374	39.40
h8375	2.02
h8376	67.06
h8377	38.89
h8378	17.39
h8379	1.56
h8380	1.99
h8381	14.75
h8382	358.20
h8383	1385.55
h8384	642.79
h8385	1267.87
h8386	2082.56

h8387	2199.48
h8388	2272.94
h8389	2266.82
h8390	2272.94
h8391	2260.47
h8392	2265.15
h8393	2272.94
h8394	2272.94
h8395	2272.94
h8396	2272.94
h8397	2272.94
h8398	0.00
h8399	2272.94
h8400	2223.89
h8401	2272.94
h8402	2272.94
h8403	1120.24
h8404	1856.65
h8405	2021.32
h8406	2131.68
h8407	2192.55
h8408	931.56
h8409	2198.32
h8410	1492.27
h8411	2156.51
h8412	1801.42
h8413	705.56
h8414	952.77
h8415	2272.94
h8416	1630.50
h8417	1625.85

h8418	1479.48
h8419	324.29
h8420	1.92
h8421	0.03
h8422	0.00
h8423	9.88
h8424	78.06
h8425	12.57
h8426	134.66
h8427	167.23
h8428	1448.34
h8429	365.49
h8430	741.02
h8431	1073.99
h8432	1178.17
h8433	802.06
h8434	290.79
h8435	755.60
h8436	25.25
h8437	29.39
h8438	92.00
h8439	1501.81
h8440	2154.62
h8441	2004.09
h8442	1236.70
h8443	190.35
h8444	190.49
h8445	516.16
h8446	266.20
h8447	104.00
h8448	150.41



h8449	100.20
h8450	89.05
h8451	258.87
h8452	588.23
h8453	1839.78
h8454	1211.09
h8455	887.55
h8456	109.36
h8457	6.77
h8458	50.77
h8459	210.77
h8460	54.68
h8461	153.38
h8462	324.87
h8463	651.76
h8464	308.46
h8465	209.19
h8466	102.92
h8467	401.89
h8468	1848.98
h8469	1931.66
h8470	1102.60
h8471	1718.66
h8472	1558.88
h8473	1134.99
h8474	106.51
h8475	63.61
h8476	1100.74
h8477	936.83
h8478	813.80
h8479	224.81

h8480	384.97
h8481	715.66
h8482	1732.93
h8483	2038.37
h8484	1042.95
h8485	767.20
h8486	1652.51
h8487	2260.55
h8488	1410.49
h8489	487.28
h8490	581.35
h8491	888.24
h8492	1107.60
h8493	1692.35
h8494	1922.38
h8495	2269.46
h8496	2257.51
h8497	1550.77
h8498	1763.99
h8499	183.20
h8500	464.21
h8501	581.47
h8502	479.79
h8503	83.92
h8504	578.25
h8505	193.00
h8506	302.86
h8507	68.95
h8508	178.73
h8509	242.36
h8510	1606.67

h8511	1927.42
h8512	310.93
h8513	208.76
h8514	15.44
h8515	15.33
h8516	146.58
h8517	205.47
h8518	152.66
h8519	97.45
h8520	74.83
h8521	14.11
h8522	27.60
h8523	1.19
h8524	0.78
h8525	31.08
h8526	98.98
h8527	327.27
h8528	638.88
h8529	1569.95
h8530	857.63
h8531	899.45
h8532	2046.40
h8533	1543.55
h8534	736.43
h8535	571.09
h8536	952.26
h8537	1734.32
h8538	101.96
h8539	75.73
h8540	172.12
h8541	505.08

h8542	1391.42
h8543	1162.76
h8544	1835.05
h8545	1955.68
h8546	1760.06
h8547	2208.21
h8548	1394.81
h8549	851.67
h8550	248.70
h8551	22.57
h8552	22.99
h8553	252.96
h8554	224.22
h8555	467.85
h8556	47.08
h8557	168.55
h8558	132.92
h8559	210.81
h8560	26.86
h8561	334.32
h8562	257.60
h8563	1032.15
h8564	1227.88
h8565	1217.55
h8566	984.68
h8567	1682.12
h8568	726.77
h8569	494.60
h8570	75.06
h8571	276.12
h8572	2.37

h8573	98.21
h8574	0.00
h8575	1.29
h8576	12.25
h8577	7.76
h8578	1.70
h8579	18.65
h8580	95.53
h8581	408.87
h8582	17.51
h8583	1.33
h8584	0.00
h8585	1.02
h8586	83.22
h8587	0.60
h8588	0.57
h8589	1.27
h8590	0.20
h8591	0.36
h8592	0.00
h8593	0.00
h8594	0.00
h8595	0.00
h8596	0.00
h8597	30.90
h8598	0.95
h8599	3.30
h8600	10.06
h8601	206.65
h8602	85.45
h8603	47.12

h8604	629.96
h8605	822.32
h8606	359.00
h8607	1236.84
h8608	2066.13
h8609	2272.94
h8610	2272.94
h8611	2234.47
h8612	2207.74
h8613	2272.94
h8614	2272.94
h8615	2272.94
h8616	2268.64
h8617	2272.94
h8618	2216.54
h8619	2272.94
h8620	2272.94
h8621	1993.78
h8622	2205.23
h8623	1926.93
h8624	2272.94
h8625	2272.94
h8626	2272.94
h8627	2272.94
h8628	2272.94
h8629	2268.14
h8630	1049.89
h8631	655.13
h8632	834.10
h8633	1036.63
h8634	293.71

h8635	594.13
h8636	448.98
h8637	1012.31
h8638	1477.99
h8639	2157.49
h8640	766.19
h8641	1660.08
h8642	757.72
h8643	1043.78
h8644	1423.58
h8645	1109.56
h8646	1448.30
h8647	655.46
h8648	745.32
h8649	307.02
h8650	555.13
h8651	1316.77
h8652	2191.62
h8653	2168.54
h8654	2261.88
h8655	1470.81
h8656	1908.38
h8657	1078.76
h8658	871.43
h8659	2011.11
h8660	2161.72
h8661	1552.22
h8662	181.58
h8663	605.68
h8664	187.91
h8665	46.98

h8666	139.51
h8667	76.42
h8668	23.44
h8669	131.66
h8670	161.28
h8671	175.71
h8672	781.24
h8673	1002.04
h8674	1747.47
h8675	898.13
h8676	876.63
h8677	516.09
h8678	696.80
h8679	756.82
h8680	2242.36
h8681	2272.94
h8682	2271.27
h8683	2272.94
h8684	1701.22
h8685	1555.49
h8686	758.42
h8687	2258.53
h8688	2260.22
h8689	732.96
h8690	773.05
h8691	141.88
h8692	299.79
h8693	595.54
h8694	2144.25
h8695	1522.36
h8696	2257.44



h8697	2272.94
h8698	2272.94
h8699	2117.22
h8700	677.99
h8701	2262.98
h8702	2234.60
h8703	1767.72
h8704	501.86
h8705	908.88
h8706	1013.78
h8707	585.91
h8708	681.36
h8709	2012.28
h8710	530.97
h8711	307.58
h8712	157.41
h8713	93.83
h8714	63.75
h8715	79.81
h8716	30.10
h8717	64.29
h8718	202.09
h8719	81.72
h8720	2.07
h8721	225.43
h8722	394.91
h8723	535.45
h8724	2182.63
h8725	1725.00
h8726	1570.06
h8727	1434.79

h8728	1818.27
h8729	1395.40
h8730	2140.46
h8731	1227.12
h8732	818.47
h8733	400.78
h8734	1264.00
h8735	2258.28
h8736	2272.94
h8737	2272.94
h8738	1761.57
h8739	1567.34
h8740	985.19
h8741	234.57
h8742	310.59
h8743	415.68
h8744	125.50
h8745	119.33
h8746	74.86
h8747	140.95
h8748	118.91
h8749	33.38
h8750	1.44
h8751	91.56
h8752	173.96
h8753	550.11
h8754	300.76
h8755	848.77
h8756	595.39
h8757	92.58
h8758	60.36

h8759 165.87  
h8760 772.77

/;

\*loop(h,

\*if(Wspeed(h) < Wcutin,

\*WGEN(h)=0;

\*elseif ((Wspeed(h)>=Wnominal) and (Wspeed(h)<=Wcutout)),

\*WGEN(h)= WCapacity;

\*elseif (Wspeed(h)> Wcutout),

\*WGEN(h) =0;

\*else

\*WGEN(h)=Weff\*Cp\*Ro/1000\*3.14159265359\*(WRad\*\*2)/2\*(Wspeed(h))\*\*3

\*);

\*);

\*\$call gdxrw.exe PrecoGrid.txt par=ep rdim=1

\*Parameter ep(h);

\*\$gdxin PrecoGrid.gdx

\*\$load ep

\*\$gdxin

Parameter SolPVGen(h) 'Solar PV generation, from a 2 MW plant, in kWh'

/

h1	0.00
h2	0.00
h3	0.00
h4	0.00
h5	0.00
h6	227.43
h7	389.31
h8	337.13
h9	943.06
h10	1229.63
h11	937.65
h12	983.96
h13	1256.92
h14	732.30
h15	431.31
h16	155.61
h17	0.00
h18	0.00
h19	0.00
h20	0.00
h21	0.00
h22	0.00
h23	0.00
h24	0.00
h25	0.00
h26	0.00
h27	0.00
h28	0.00
h29	0.00
h30	76.15
h31	234.63

h32	227.12
h33	279.92
h34	478.84
h35	589.58
h36	601.91
h37	270.87
h38	519.59
h39	162.50
h40	33.78
h41	0.00
h42	0.00
h43	0.00
h44	0.00
h45	0.00
h46	0.00
h47	0.00
h48	0.00
h49	0.00
h50	0.00
h51	0.00
h52	0.00
h53	0.00
h54	75.97
h55	150.09
h56	227.32
h57	275.60
h58	1135.87
h59	1477.52
h60	1394.91
h61	812.09
h62	773.29

h63	617.69
h64	196.18
h65	0.00
h66	0.00
h67	0.00
h68	0.00
h69	0.00
h70	0.00
h71	0.00
h72	0.00
h73	0.00
h74	0.00
h75	0.00
h76	0.00
h77	0.00
h78	11.32
h79	27.03
h80	149.07
h81	309.60
h82	92.16
h83	615.98
h84	920.49
h85	552.66
h86	449.86
h87	263.00
h88	66.93
h89	0.00
h90	0.00
h91	0.00
h92	0.00
h93	0.00

h94	0.00
h95	0.00
h96	0.00
h97	0.00
h98	0.00
h99	0.00
h100	0.00
h101	0.00
h102	55.80
h103	334.37
h104	1008.32
h105	847.53
h106	537.77
h107	710.51
h108	684.39
h109	899.37
h110	733.24
h111	532.57
h112	258.31
h113	0.00
h114	0.00
h115	0.00
h116	0.00
h117	0.00
h118	0.00
h119	0.00
h120	0.00
h121	0.00
h122	0.00
h123	0.00
h124	0.00

h125	0.00
h126	131.26
h127	662.47
h128	1096.67
h129	1356.86
h130	1032.10
h131	1476.64
h132	1141.32
h133	1362.53
h134	1033.89
h135	823.89
h136	414.06
h137	0.00
h138	0.00
h139	0.00
h140	0.00
h141	0.00
h142	0.00
h143	0.00
h144	0.00
h145	0.00
h146	0.00
h147	0.00
h148	0.00
h149	0.00
h150	116.72
h151	230.75
h152	653.07
h153	581.61
h154	835.54
h155	526.26



h156	540.04
h157	251.65
h158	70.03
h159	197.51
h160	59.24
h161	0.00
h162	0.00
h163	0.00
h164	0.00
h165	0.00
h166	0.00
h167	0.00
h168	0.00
h169	0.00
h170	0.00
h171	0.00
h172	0.00
h173	0.00
h174	243.88
h175	469.55
h176	585.23
h177	688.30
h178	735.41
h179	605.70
h180	852.38
h181	747.55
h182	932.28
h183	386.72
h184	340.18
h185	0.00
h186	0.00

h187	0.00
h188	0.00
h189	0.00
h190	0.00
h191	0.00
h192	0.00
h193	0.00
h194	0.00
h195	0.00
h196	0.00
h197	0.00
h198	234.98
h199	522.08
h200	1038.61
h201	1398.95
h202	1526.04
h203	1695.57
h204	1581.68
h205	1488.07
h206	1331.80
h207	904.62
h208	421.39
h209	0.00
h210	0.00
h211	0.00
h212	0.00
h213	0.00
h214	0.00
h215	0.00
h216	0.00
h217	0.00

h218	0.00
h219	0.00
h220	0.00
h221	0.00
h222	47.34
h223	390.35
h224	612.96
h225	708.27
h226	1163.00
h227	785.97
h228	1396.71
h229	1017.36
h230	814.37
h231	509.35
h232	279.29
h233	0.00
h234	0.00
h235	0.00
h236	0.00
h237	0.00
h238	0.00
h239	0.00
h240	0.00
h241	0.00
h242	0.00
h243	0.00
h244	0.00
h245	0.00
h246	244.81
h247	491.64
h248	1101.31

h249	1513.24
h250	1557.01
h251	1528.02
h252	1507.34
h253	1345.20
h254	1126.38
h255	681.98
h256	451.87
h257	0.00
h258	0.00
h259	0.00
h260	0.00
h261	0.00
h262	0.00
h263	0.00
h264	0.00
h265	0.00
h266	0.00
h267	0.00
h268	0.00
h269	0.00
h270	278.68
h271	751.71
h272	1174.11
h273	1300.27
h274	1440.58
h275	1590.20
h276	1695.77
h277	1354.59
h278	1205.93
h279	899.93

h280	325.38
h281	0.00
h282	0.00
h283	0.00
h284	0.00
h285	0.00
h286	0.00
h287	0.00
h288	0.00
h289	0.00
h290	0.00
h291	0.00
h292	0.00
h293	0.00
h294	39.08
h295	150.73
h296	271.03
h297	247.81
h298	559.00
h299	707.23
h300	443.84
h301	190.11
h302	357.81
h303	218.35
h304	114.44
h305	0.00
h306	0.00
h307	0.00
h308	0.00
h309	0.00
h310	0.00

h311	0.00
h312	0.00
h313	0.00
h314	0.00
h315	0.00
h316	0.00
h317	0.00
h318	252.84
h319	489.18
h320	892.81
h321	894.39
h322	1509.36
h323	1322.36
h324	1373.54
h325	1360.22
h326	876.11
h327	449.31
h328	264.47
h329	0.00
h330	0.00
h331	0.00
h332	0.00
h333	0.00
h334	0.00
h335	0.00
h336	0.00
h337	0.00
h338	0.00
h339	0.00
h340	0.00
h341	0.00

h342	228.29
h343	244.80
h344	692.37
h345	1126.75
h346	1481.55
h347	1409.47
h348	814.11
h349	951.26
h350	1073.44
h351	648.90
h352	381.53
h353	0.00
h354	0.00
h355	0.00
h356	0.00
h357	0.00
h358	0.00
h359	0.00
h360	0.00
h361	0.00
h362	0.00
h363	0.00
h364	0.00
h365	0.00
h366	40.06
h367	197.52
h368	295.46
h369	294.36
h370	369.70
h371	832.58
h372	691.54

h373	885.91
h374	721.07
h375	354.38
h376	262.34
h377	0.00
h378	0.00
h379	0.00
h380	0.00
h381	0.00
h382	0.00
h383	0.00
h384	0.00
h385	0.00
h386	0.00
h387	0.00
h388	0.00
h389	0.00
h390	134.17
h391	621.41
h392	540.42
h393	1065.59
h394	1680.98
h395	1779.05
h396	1517.96
h397	1173.68
h398	941.69
h399	832.76
h400	323.84
h401	0.00
h402	0.00
h403	0.00



h404	0.00
h405	0.00
h406	0.00
h407	0.00
h408	0.00
h409	0.00
h410	0.00
h411	0.00
h412	0.00
h413	0.00
h414	110.74
h415	245.39
h416	632.45
h417	507.97
h418	648.20
h419	646.08
h420	602.21
h421	607.70
h422	521.49
h423	197.44
h424	122.04
h425	0.00
h426	0.00
h427	0.00
h428	0.00
h429	0.00
h430	0.00
h431	0.00
h432	0.00
h433	0.00
h434	0.00

h435	0.00
h436	0.00
h437	0.00
h438	258.59
h439	776.72
h440	744.89
h441	506.59
h442	1372.15
h443	1725.68
h444	1564.70
h445	985.34
h446	387.38
h447	425.01
h448	278.21
h449	0.00
h450	0.00
h451	0.00
h452	0.00
h453	0.00
h454	0.00
h455	0.00
h456	0.00
h457	0.00
h458	0.00
h459	0.00
h460	0.00
h461	0.00
h462	180.30
h463	324.62
h464	867.55
h465	416.39

h466	323.27
h467	349.75
h468	355.22
h469	801.85
h470	361.81
h471	277.05
h472	133.84
h473	0.00
h474	0.00
h475	0.00
h476	0.00
h477	0.00
h478	0.00
h479	0.00
h480	0.00
h481	0.00
h482	0.00
h483	0.00
h484	0.00
h485	0.00
h486	19.26
h487	111.31
h488	325.06
h489	202.66
h490	335.34
h491	310.10
h492	373.22
h493	561.91
h494	211.10
h495	285.30
h496	42.38

h497	0.00
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h8575	135.82
h8576	448.90
h8577	682.86
h8578	645.07
h8579	687.54
h8580	1188.09
h8581	736.00
h8582	594.58
h8583	497.56
h8584	210.64
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h8587	0.00



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h8599	531.59
h8600	687.66
h8601	1090.50
h8602	1471.90
h8603	1558.04
h8604	1363.37
h8605	995.38
h8606	491.38
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h8623	142.48
h8624	98.12
h8625	147.57
h8626	121.91
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h8648	102.41
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h8650	372.39
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h8652	230.53
h8653	116.72
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h8671	402.93
h8672	997.59
h8673	919.32
h8674	1273.32
h8675	1079.63
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h8698	1223.53
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h8722	846.39
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h8747	877.76
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/;

Parameter ep(h) 'electricity price in USD/kWh for off peak hours and peak hours'

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;/

Parameter avgElecGri 'Average cost of grid electricity';

Parameter SomaElec;

SomaElec=0;

Loop (h,

SomaElec = SomaElec+ep(h));

avgElecGri=SomaElec/Nhours;

Display 'Average cost of electricity, in USD/kWh', avgElecGri;

parameter sell(h) 'selling price for electricity to the grid, in USD/kWh'

/

h1	0.04
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parameter NDays(hplus) 'Number of hours for each day'/

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#### Variable

RWGEN(h) 'Wind generation if the modele chooses to use wind turbine'  
RPVGEN(h) 'PV generation if the modele chooses to use solar PV'  
PVEWast(h) 'Solar PV energy that is wasted, not used'  
WEWast(h)'Wind energy that is wasted, not used'  
ENw(h) 'electrolyser energy input from the wind turbines'  
ENpv(h) 'electrolyser energy input from the solar PV'  
ECw(h) 'Electricity for the compressor that comes from the wind turbines'  
ECpv(h)'Electricity for the compressor that comes from the solar PV plants'  
Supv(h)'Solar PV electricity surplus'  
Scpv(h) 'Solar PV electricity surplus that is commercialized'  
Sspv(h) 'Solar PV electicity surplus that is stored'  
Suw(h)'wind electricity surplus'

Scw(h) 'wind electricity surplus that is commercialized'  
Ssw(h) 'wind electricity surplus that is stored '  
Su(h) 'Total electricity surplus'  
Sc(h) 'Total electricity surplus that is commercialized'  
Ss(hplus) 'Total electricity surplus that is stored '  
S(hplus) 'energy accumulated in the storage'  
So(hplus) 'storage output'  
SoC(h) 'storage output that goes to the compressor'  
SoE(h) 'storage output that goes to the electrolyser'  
H2elec(h,itech) 'hourly production of H2 via electrolysis'  
TH2elec 'Total production of hydrogen via electrolysis in one year'  
TH2SR 'Total production of hydrogen via SR in one year'  
TH2CC 'Total production of hydrogen via carbon capture with SR in one year'  
TH2 'Total production of hydrogen in one year'  
H2Import(h)'Import cost of H2, just to avoid unfeasibility'  
capa(itech)'Production capacity of hydrogen'  
Ialc 'Integer for Alkaline electrolyser'  
Ipem 'Integer for PEM electrolyser'  
Inb 'Integer for battery'  
Isr 'Integer for steam reform'  
Icc 'Binary for Carbon capture with SR'  
Yelec 'Binary for electrolyser'  
Ywin 'Binary for wind turbines'  
Ypv 'Binary for solar PV'  
Yalc 'Binary for alkaline electrolyser'  
Ypem 'Binary for PEM electrolyser'  
Ypipe 'Binary for pipelines'  
Truck 'Binary for trucks'  
H2H(h) 'Hourly production of hydrogen in kg/h'  
Gri(h) 'Electricity purchased from the grid'  
GriC(h) 'Electricity purchased from the grid that goes to the compressor'



GriE(h) 'Electricity purchased from the grid that goes to the electrolyser'

CO2 'Total CO2 emissions in tCO2/year'

CostH2SR 'Total cost of hydrogen production via steam reform'

CostCCSR 'Total cost of hydrogen production carbon capture with via steam reform'

CostEleSys 'Total cost of hydrogen production via water electrolysis'

H2SR(h,fuel) 'Hydrogen production via steam reform'

H2CC(h)'Hydrogen production carbon capture with via steam reform'

CostW 'Total cost of wind plant'

CostBat 'Total cost of batteries system'

CostPV 'Total cost of solar PV plant'

CostCompE 'Cost of compressors for electrolyzers'

\*TotWas 'Total energy produced but not used for anything'

EElecUsed 'Total electricity used by the electrolyser'

Speed(pipe) 'Speed of hydrogen flowing in the pipe in m/s'

SpeedSMR(pipe) 'Speed of hydrogen from SMR flowing in the pipe in m/s'

H2S(hplus) 'H2 stored at each hour associated to pipelines'

H2S2(hplus) 'H2 stored at each hour associated to trucks'

H2Ss(hplus) 'H2 that goes into the storage at each hour associated to pipelines'

H2Ss2(hplus) 'H2 that goes into the storage at each hour associated to trucks'

H2So(hplus) 'H2 that leaves the storage at each hour associated to pipelines'

H2So2(hplus) 'H2 that leaves the storage at each hour associated to trucks'

H2Pipe(h) 'H2 that goes directly to pipelines'

H2Tpipe(h) 'Total H2 going to the pipelines'

\*Yh2out(h) 'Binary for H2 leaving the storage'

\*Yh2in(h) 'Binary for H2 going into the storage'

Nsto 'Integer variable for the number of units of H2 storage associated to pipelines'

Nsto2 'Integer variable for the number of units of H2 storage associated to trucks'

PipeCost 'Total cost of pipelines and compression stations'

StoCost 'Total cost of storage'

CStaCost 'Total cost of compression stations'

CO2CS 'Total emissions from compression stations'

Zed 'Total cost of the project'

;

Positive variable

RWGEN,RPVGEN,ENw,ENpv,ECw(h),ECpv(h),Supv,Sspv,Scpv,Suw,Scw,Ssw,WEWast,Su,

Sc,S,Ss,So,SoC,SoE,H2elec,TH2elec,TH2SR,TH2CC,TH2,H2H,H2Import,capa,Gri,GriC,GriE,CO2,Co  
stH2SR,

CostCCSR, CostEleSys, CostCompE, H2SR, H2CC, CostW, CostBat, CostPV, EElecUsed, Speed, H2S, H2Ss  
, H2So, H2S2,

H2Ss2, H2So2, H2Pipe, H2Tpipe, H2S2, PipeCost, StoCost, CStoCost, CO2CS, LogiCost, Inb, lalc, lpem, Is  
r, lcc, Nsto, Nsto2;

\*TotWas,

Binary variable Yelec, Ywin, Ypv, Yalc, Ypem, Ysr, Ycc, Ya, Yb, Yc, Yd, Ye, Yasr, Ybsr, Ycsr, Ydsr, Yesr,

Ypipe, YpipeSR, Ytruck;

Free variable Zed;

Equations

ForcingNotSR

ForcingNotSRCC

ForcingNotSR2

ForcingNotSRCC2

ForcingWind

ForcingPV

\*IMportzero(h)

ForcingNotTrucks

Definingelec

OptimElec

\*OptimBat

\*OptimSto

OptimPipe

OptimElecBin

optimElecBin2

\*OptimPVBin

\*OptimWinBin

RealWinGEN(h) If the modele chooses to use wind turbine or not

Elel(h) Electricity from wind should go to electrolyser

WEnergyWasted(h) Wind electricity that is produced but not used (wasted)

WESu(h) Wind electricity surplus

ECommer(h) Wind electricity surplus that does not go to the storage and is commercialized

EStored(h) Wind Energy surplus that goes to the storage

RealPVGEN(h) If the modele chooses to use PV solar plants or not

PVElel(h) Electricity from solar PV should go to electrolyser

PVEnergyWasted(h) PV electricity that is produced but not used (wasted)

PVESu(h) Solar PV electricity surplus

PVECommer(h) Solar PV electricity surplus that does not go to the storage and is commercialized

PVEStored(h) Solar PVEnergy surplus that goes to the storage

CompressorPEM(h) Energy for compressor associated to PEM

CompressorALC(h) Energy for compressor associated to Alkaline electrolyser

Esu(h) Total electricity surplus

EComercial(h) Total energy commercialized

LimCommer(h) Limit of selling electricity to the grid

TotEleSto(h) Total electricity stored

ES0 Battery at hour 0

ES(hplus) Energy accumulated in the storage

ESo(hplus) Constraint for the storage output

BatteryInlet0 Constraint for hour 0 inlet battery

BatteryOutlet0 Constraint for hour 0 outlet battery

SoTotal(h) Total storage output to the electrolyser and to the compressor

NumBatteries(h) Integer constraint for the number of batteries (limitation of energy storage due to battery capacity)

EQ1(h,itech) H2 production constraint 1

EQ2(h,itech) H2 production hourly

EQ6(h,itech) Electrolyser input limitation

EQ7(h) Limitation of electricity from the grid due to transmission constraints

GriTotal(h) Total grid output to the electrolyser and to the compressor

EQ9(h) Limitation of power battery discharge

EQ10(h) Limitation of power battery charge

\*DEM H2 production must be higher or equal the demand

EQ3(itech) Binary constraint for alkaline production

EQ4(itech) Binary constraint for pem production

EQ8 Binary constraint for kind of electrolyser

EQ11 Binary constraint for kind of electrolyser 2

EQ5 Binary constraint to chose only one technology

TPElec Total production of H2 via electrolysis in one year

TPSR Total production of H2 via SR in one year

COST Total cost of the system

ECO2 Total CO2 emissions

LCO2 CO2 emissions limit

CostProEtSR Cost of hydrogen production via steam reform

CostElectroSR Total cost of hydrogen produced via water electrolysis

CostCompressorsElec Total cost of compressors for electrolysers

CostBattery Total Cost of battery

CostWind Total Cost of Wind Plant

CostSolarPV Total Cost of Solar PV Plant

BatUse Use or not the battery

SRUse Use or not the SR

ElecUse Use or not the electrolyser

H2hourly(h) Hourly production of hydrogen

WinUse Use or not the wind turbine

PVUse Use or not the Solar PV

PVWinforElec Win and PV must be associated to electrolyser

H2produ Total hydrogen production

LimCapH2SR(h) Capacit limit of the H2 production via SR

\*TotalWaste Total energy produced but not used for anything

TotalElecUsedinElec Total electricity used by the electrolyser

CostProCCSR Total cost of carbon capture with SR

LimCapCC(h) Hourly limit of H2 production via carbon capture with SR

CCSRUse Binary constraint for carbon capture with SR

TPCCSR Total production of H2 via carbon capture with SR

SRDemand(h) Constraint for demand for hydrogen from SMR

CCSRDemand(h) Constraint for demand for hydrogen from SMR with CCS

SpeedofH2inASMR Speed with binary for pipe A for SMR pipe

SpeedofH2inBSMR Speed with binary for pipe B for SMR pipe

SpeedofH2inCSMR Speed with binary for pipe C for SMR pipe

SpeedofH2inDSMR Speed with binary for pipe D for SMR pipe

SpeedofH2inESMR Speed with binary for pipe E for SMR pipe

BinaryPipesSMR Binary equation to choose only one SMR pipeline

BinaryPipesSMR2 Binary equation to associate SMR to the pipeline

SpeedofH2inA Speed with binary for pipe A

SpeedofH2inB Speed with binary for pipe B

SpeedofH2inC Speed with binary for pipe C

SpeedofH2inD Speed with binary for pipe D

SpeedofH2inE Speed with binary for pipe E

BinaryPipes Binary equation to choose only one pipeline

CostOfPipes Total cost of pipelines

HydrogenStoredh0 Hydrogen stored at time 0

HydrogenStorageInlet0 Inlet into the storage at hour 0

HydrogenStorageOutlet0 Outlet from the storage at hour 0

HydrogenStored(hplus) Hydrogen stored each hour

HydrogenSo(hplus) Constraint for hydrogen leaving the storage

DemandOfH2forPipes(hplus) Constraint to attend the demand of hydrogen

DischargeOfH2Trucks1 Demand constraint for trucks for all days

HydrogenProduced(h) H2 goes to the storage and to pipelines

H2inpipelines(h) Total H2 that goes to the pipelines

ConstraintNsto Constraint for number of storages

HydrogenStoredh02 Hour zero for storage2

HydrogenStorageInlet02 Hour zero for storage inlet2

HydrogenStorageOutlet02 Hour zero for storage outlet2

HydrogenProduced2(h) Hydrogen produced goes to storage2

HydrogenStored2(hplus) Equation for hydrogen storage 2

HydrogenSo2(hplus) Constraint for storage output 2

StorageCapacity2(hplus) Total stoareg capacity

ConstraintNsto2 Constraint for number of storages2

CostofStorage Total cost of hydrogen storage

LogisticsCost Total cost of logistic module

StorageCapacity(hplus) Capacity of H2 storage

CostOfComStations Total cost fo compression stations

EmissionsCompStations Total emissions of compression stations

ChooseLogistics Binaries for choosing logistics modal

COST Total cost of the project objective function

;

ForcingNotSR.. Ysr=e=0;

ForcingNotSRCC.. Ycc=e=0;

ForcingNotSR2.. Isr=e=0;

ForcingNotSRCC2.. lcc=e=0;

ForcingWind.. Ywin=e=1;

ForcingPV.. Ypv=e=0;

\*IMportzero(h)..H2Import(h)=e=0;

ForcingNotTrucks.. Ytruck=e=1;

DefiningIelec.. lalc=e=13;

OptimElec..Ypem=e=0;

\*OptimBat.. Inb=e=0;

\*OptimSto.. Nsto=e=13;

OptimPipe..Ypipe=e=0;

OptimElecBin..Yelec=e=1;

optimElecBin2..Yalc=e=1;

\*OptimPVBin..Ypv=e=0;

\*OptimWinBin..Ywin=e=1;

RealWinGEN(h).. RWGEN(h) =I= Iw\*WGEN(h);

EleI(h).. ENw(h)+ECw(h)=I= RWGEN(h);

WEnergyWasted(h).. WEWast(h)=e=Iw\*WGEN(h)-RWGEN(h);

WESu(h).. Suw(h) =e= RWGEN(h)-ENw(h)-ECw(h);

ECommer(h).. Scw(h) =I= Suw(h);

EStored(h).. Ssw(h) =e= Suw(h)-Scw(h);

RealPVGen(h).. RPVGEN(h) =I= Ipv\*SolPVGen(h);

PVEleI(h).. ENpv(h)+ECpv(h) =I= RPVGEN(h);

PVEnergyWasted(h).. PVEWast(h)=e=Ipv\*SolPVGen(h)-RPVGEN(h);

PVESu(h).. Supv(h) =e= RPVGEN(h)-ENpv(h)-ECpv(h);

PVECommer(h).. Scpv(h) =l= Supv(h);

PVEStored(h).. Sspv(h) =e= Supv(h)-Scpv(h);

CompressorPEM(h).. H2elec(h,'PEM')\*eleCompElec('PEM') =l= ECw(h)+ECpv(h)+SoC(h)+GriC(h);

CompressorALC(h).. H2elec(h,'ALC')\*eleCompElec('ALC') =l= ECw(h)+ECpv(h)+SoC(h)+GriC(h);

Esu(h).. Su(h)=e=Suw(h)+Supv(h);

EComercial(h).. Sc(h)=e=Scw(h)+Scpv(h);

LimCommer(h).. Scw(h)+Scpv(h) =l= LimSell;

TotEleSto(h).. Ss(h)=e= Sspv(h)+Ssw(h);

ES0 .. S('h0') =l= Bat0\*lnb;

BatteryInlet0 .. Ss('h0') =e= 0;

BatteryOutlet0 .. So('h0') =e= 0;

ES(hplus)\$ (ord(hplus) ge 2) .. S(hplus) =e= Ss(hplus)-So(hplus)-  
((So(hplus)/lo)-So(hplus))+S(hplus-1);

ESo(hplus)\$ (ord(hplus) ge 2).. So(hplus)+((So(hplus)/lo)-So(hplus)) =l= S(hplus-1);

SoTotal(h).. So(h) =e= SoC(h)+SoE(h);

EQ1(h,itech).. H2elec(h,itech) =l= (eff(itech)/LHV)\*capa(itech);

EQ2(h,itech).. H2elec(h,itech) =l= (eff(itech)/LHV)\*(ENw(h)+ENpv(h)+SoE(h)+GriE(h));

EQ6(h,itech).. ENw(h)+ENpv(h)+SoE(h)+GriE(h) =l= p('ALC')\*Ialc+p('PEM')\*Ipem;

EQ7(h).. Gri(h)=l=limTr;

GriTotal(h).. Gri(h)=e=GriC(h)+GriE(h);

EQ3(itech) .. capa('ALC') =l= Ialc\*p('ALC');

EQ4(itech).. capa('PEM') =l= Ipem\*p('PEM');

EQ8.. Ialc =l= Yalc\*9999999E7;



EQ11..  $I_{pem} = I = Y_{pem} * 9999999E7;$

EQ5 ..  $Y_{alc} + Y_{pem} = e = Y_{elec};$

EQ9(h)..  $S_o(h) = I = I_{nb} * \lim P_{bat};$

EQ10(h)..  $S_s(h) = I = I_{nb} * \lim P_{bat};$

NumBatteries(h)..  $S(h) = I = I_{nb} * \text{BatCapacity};$

TPElec ..  $TH_{2elec} = e = \text{sum}((h, \text{itech}), H_{2elec}(h, \text{itech}));$

TPSR..  $TH_{2SR} = e = \text{sum}(h, H_{2SR}(h, 'GN'));$

TPCCSR..  $TH_{2CC} = e = \text{sum}(h, H_{2CC}(h));$

ECO2..  $CO_2 = e =$

$\text{sum}(h, Gri(h) * e_{fac}) + \text{sum}(h, H_{2SR}(h, 'GN')) * SR_{CO_2}('GN') + \text{sum}(h, H_{2CC}(h)) * C_{CO_2} + CO_{2CS} + CO_{2TR}$   
uck;

LCO2..  $CO_2 = I = \lim CO_2 * TH_2;$

WinUse..  $\text{sum}(h, RWGEN(h)) = I = Y_{win} * 9999999E7;$

PVUse..  $\text{sum}(h, RPVGEN(h)) = I = Y_{pv} * 9999999E7;$

PVWinforElec..  $Y_{win} + Y_{pv} = I = Y_{elec} * 9999999E7;$

BatUse..  $\text{sum}(h, S(h)) = I = I_{nb} * 9999999E7;$

SRUse..  $\text{sum}(h, H_{2SR}(h, 'GN')) = I = Y_{sr} * 9999999E7;$

CCSRUse..  $\text{sum}(h, H_{2CC}(h)) = I = Y_{cc} * 9999999E7;$

ElecUse..  $\text{sum}((h, \text{itech}), H_{2elec}(h, \text{itech})) = I = Y_{elec} * 9999999E7;$

\*\*\*\*\*NÃO tem mais hidrogênio importado\*\*\*\*\*

H2hourly(h)..  $H_2H(h) = e = H_{2elec}(h, 'ALC') + H_{2elec}(h, 'PEM') + H_{2SR}(h, 'GN') + H_{2CC}(h);$

H2produ..  $TH_2 = e = TH_{2elec} + TH_{2SR} + TH_{2CC} + H_{2S}('h0') + H_{2S2}('h0');$

LimCapH2SR(h)..  $H_{2SR}(h, 'GN') = I = I_{sr} * \text{CapH}_{2SR};$

LimCapCC(h)..  $H_{2CC}(h) = I = I_{cc} * \text{CapH}_{2SR};$

\*TotalWaste.. TotWas=e=  
(sum(h,WEWast(h))+sum(h,PVEWast(h)))/(sum(h,WGEN(h)\*lw)+sum(h,SolPVGen(h)\*lpv));

TotalElecUsedinElec.. EElecUsed=e=(sum (h,ENw(h))+sum  
(h,ENpv(h))+sum(h,SoE(h))+sum(h,GriE(h)));

SRDemand(h).. H2SR(h,'GN') =g= H2d(h)\*Ysr;

CCSRDemand(h).. H2CC(h) =g= H2d(h)\*Ycc;

SpeedofH2inASMR.. SpeedSMR('A') =e= Yasr\*MaxSpeed('A');

SpeedofH2inBSMR.. SpeedSMR('B') =e= Ybsr\*MaxSpeed('B');

SpeedofH2inCSMR.. SpeedSMR('C') =e= Ycsr\*MaxSpeed('C');

SpeedofH2inDSMR.. SpeedSMR('D') =e= Ydsr\*MaxSpeed('D');

SpeedofH2inESMR.. SpeedSMR('E') =e= Yesr\*MaxSpeed('E');

BinaryPipesSMR.. Yasr+Ybsr+Ycsr+Ydsr+Yesr=e=YpipeSR;

BinaryPipesSMR2.. Ysr+Ycc=e=YpipeSR;

SpeedofH2inA.. Speed('A') =e= Ya\*MaxSpeed('A');

SpeedofH2inB.. Speed('B') =e= Yb\*MaxSpeed('B');

SpeedofH2inC.. Speed('C') =e= Yc\*MaxSpeed('C');

SpeedofH2inD.. Speed('D') =e= Yd\*MaxSpeed('D');

SpeedofH2inE.. Speed('E') =e= Ye\*MaxSpeed('E');

BinaryPipes.. Ya+Yb+Yc+Yd+Ye =e= Ypipe;

HydrogenStoredh0 .. H2S('h0') =l= Nsto\*StoCapa\*SH20;

HydrogenStorageInlet0 .. H2Ss('h0') =e= 0;

HydrogenStorageOutlet0 .. H2So('h0') =e= 0;

HydrogenStored(hplus)\$ (ord(hplus) ge 2) .. H2S(hplus) =e= H2Ss(hplus)-  
H2So(hplus)+H2S(hplus-1);

HydrogenSo(hplus)\$ (ord(hplus) ge 2).. H2So(hplus) =l= H2S(hplus-1);

DemandOfH2forPipes(h).. H2Tpipe(h) =g= Ypipe\*H2d(h);

H2inpipelines(h).. H2Tpipe(h) =e= H2So(h)+H2Pipe(h);

HydrogenProduced(h) .. H2elec(h,'ALC')+H2elec(h,'PEM') =g= H2Pipe(h)+H2Ss(h);

StorageCapacity(hplus).. H2S(hplus)=l=Nsto\*StoCapa;

ConstraintNsto.. Nsto =l= Ypipe\*9999999E7;

\*\*\*\*\*

HydrogenStoredh02 .. H2S2('h0') =l= Nsto2\*StoCapa\*SH20;

HydrogenStorageInlet02 .. H2Ss2('h0') =e= 0;

HydrogenStorageOutlet02 .. H2So2('h0') =e= 0;

HydrogenProduced2(h)..H2elec(h,'ALC')+H2elec(h,'PEM')=g=H2Ss2(h);

HydrogenStored2(hplus)\$ (ord(hplus) ge 2) .. H2S2(hplus) =e= H2Ss2(hplus)-  
H2So2(hplus)+H2S2(hplus-1);

HydrogenSo2(hplus)\$ (ord(hplus) ge 2).. H2So2(hplus) =l= H2S2(hplus-1);

StorageCapacity2(hplus).. H2S2(hplus)=l=Nsto2\*StoCapa;

ConstraintNsto2.. Nsto2 =l= Ytruck\*9999999E7;

DischargeOfH2Trucks1(hplus)\$ (ord(hplus) = NDays(hplus)) .. H2So2(hplus)=g=Ytruck\*DH2d;

EmissionsCompStations..

CO2CS=e=((NCS('A')\*Ya+NCS('B')\*Yb+NCS('C')\*Yc+NCS('D')\*Yd+NCS('E')\*Ye)\*TECompStation+  
(Ya\*ELastCS('A')+Yb\*ELastCS('B')+Yc\*ELastCS('C')+Yd\*ELastCS('D')+Ye\*ELastCS('E')))\*efac;

CostofStorage..

StoCost=e=(Nsto\*H2Stocostfi)+(PH2\*(H2S('h0')+cushion\*Nsto\*StoCapa))+(Nsto2\*H2Stocostfi)+  
(PH2\*(H2S2('h0')+cushion\*Nsto2\*StoCapa));

CostOfPipes.. PipeCost=e=Ya\*Pipecostfi('A')+Yb\*Pipecostfi('B')+

Yc\*Pipecostfi('C')+Yd\*Pipecostfi('D')+Ye\*Pipecostfi('E')+Yasr\*PipecostfiSMR('A')

+Ybsr\*PipecostfiSMR('B')+

Ycsr\*PipecostfiSMR('C')+Ydsr\*PipecostfiSMR('D')+Yesr\*PipecostfiSMR('E');

CostOfComStations..

CStaCost=e=(((NCS('A')\*Ya+NCS('B')\*Yb+NCS('C')\*Yc+NCS('D')\*Yd+NCS('E')\*Ye)\*TECompStation  
+

(Ya\*ELastCS('A')+Yb\*ELastCS('B')+Yc\*ELastCS('C')+Yd\*ELastCS('D')+Ye\*ELastCS('E'))\*avgElecGri)  
+

(Ya\*(NCS('A')\*CompScostfi+LastCScostfi('A'))+Yb\*(NCS('B')\*CompScostfi+LastCScostfi('B'))+Yc\*(  
NCS('C')\*CompScostfi+LastCScostfi('C'))

+Yd\*(NCS('D')\*CompScostfi+LastCScostfi('D'))+Ye\*(NCS('E')\*CompScostfi+LastCScostfi('E')));

LogisticsCost.. LogiCost=e=StoCost+PipeCost+CStaCost+(Ytruck\*CostTrucks);

ChooseLogistics.. Ytruck+Ypipe+YpipeSR=e=1;

CostProEtSR.. CostH2SR =e=

sum(h,H2SR(h,'GN'))\*FuC('GN')\*FuP('GN')+sum(h,H2SR(h,'GN'))\*WSR\*PWP+sum(h,H2SR(h,'GN'  
)\*)\*eleSR\*ep(h))

+sum(h,H2SR(h,'GN'))\*Pcat+Isr\*SRcostfi('GN')+sum(h,H2SR(h,'GN'))\*SRcostru('GN');

CostProCCSR.. CostCCSR =e=

sum(h,H2CC(h))\*CCFuC\*FuP('GN')+sum(h,H2CC(h))\*WCC\*PWP+sum(h,H2CC(h))\*eleSRCC\*ep(h  
)

+sum(h,H2CC(h))\*Pcat+Icc\*CCcostfi+sum(h,H2CC(h))\*CCcostru;

CostElectroSR.. CostEleSys =e=

sum(h,Gri(h)\*ep(h))+sum((h,itech),H2elec(h,itech)\*techcostru(itech))+Ialc\*techcostfi('ALC')+  
Ipem\*techcostfi('PEM')+PTW\*DTW\*TH2elec+PWP\*DPW\*sum((h,itech),(H2elec(h,itech)))

+(WTdessa\*TH2elec\*LenghtRoadway/100000)-sum(h,(Scw(h)+Scpv(h))\*sell(h))-  
(TH2elec\*8\*O2P/roO2);

CostCompressorsElec.. CostCompE=e=Ialc\*CompElecostfi('ALC')+Ipem\*CompElecostfi('PEM')

+sum(h,H2elec(h,'ALC')\*eleCompElec('ALC')\*ep(h))+sum(h,H2elec(h,'PEM')\*eleCompElec('PEM'  
)\*)\*ep(h))

+Isr\*CompSRcostfi+sum(h,H2SR(h,'GN')\*eleCompSR\*ep(h))+Icc\*CompSRcostfi+sum(h,H2CC(h)  
\*eleCompSR\*ep(h));

CostBattery..

CostBat=e=Inb\*(Batcostfi)+(S('h0')\*ep('h1'))+BatCapacity\*(sum(h,So(h))/(limPbat\*168))\*Batco  
stru;

CostWind.. CostW=e=lw\*(Ywin\*wcostfi+sum(h,RWGEN(h))\*wcostru);

CostSolarPV..CostPV=e=lpv\*(Ypv\*PVcostfi+sum(h,RPVGEN(h))\*PVcostru);

COST.. Zed =e=

CostH2SR+CostCCSR+CostEleSys+CostCompE+CostBat+CostW+CostPV+LogiCost+sum(h,H2imp  
ort(h)\*Importcost)+CarbonTa\*CO2;

\*falta add put da logistica e a transmissao

display 'Generation of wind energy',WGEN;

Model electro /all/ ;

Solve electro using mip minimizing Zed;

option solprint = on;

\*Loop for Number of Wind Turbines and PV plants\*

set windturbine/

wt410

wt450

/;

parameter numberWT(windturbine) 'number of wind turbines'/

wt410 410

wt450 450

/;

set PVplants/

pvp000

/;

parameter numberPV(PVplants)'number of solar PV plants'/

pvp000 0

/;

scalar minicost /9999999E7/;

parameter capamin(itech) ;

scalar CO2min ;

scalar CostBatmin ;

scalar CostCCSRmin ;

scalar CostEleSysmin ;

scalar CostH2SRmin ;

scalar CostPVmin ;

scalar CostWmin ;

scalar CostCompEmin ;  
scalar EElecUsedmin ;  
parameter ENpvmin(h) ;  
parameter ENwmin(h) ;  
parameter Grimin(h) ;  
parameter GriCmin(h) ;  
parameter GriEmin(h) ;  
parameter H2CCmin(h) ;  
parameter H2elecmin(h,itech) ;  
parameter H2Importmin(h) ;  
parameter H2SRmin(h,fuel) ;  
parameter H2Hmin(h);  
scalar Yalcmin ;  
scalar Inbmin ;  
scalar Ypemmin ;  
scalar Ysrmin ;  
scalar Yccmin ;  
parameter PVEWastmin(h);  
parameter Storammin(hplus) ;  
parameter Scmin(h) ;  
parameter Scpvmin(h) ;  
parameter Scwmin(h) ;  
parameter Somin(h) ;  
parameter SoCmin(h) ;  
parameter SoEmin(h) ;  
parameter Ssmin(h) ;  
parameter Sspvmin(h) ;  
parameter Sswmin(h) ;  
parameter Sumin(h) ;  
parameter Supvmin(h) ;  
parameter Suwmin(h) ;

scalar TH2min ;  
scalar TH2CCmin ;  
scalar TH2elecmin ;  
scalar TH2SRmin ;  
scalar TotWasmin ;  
parameter WEWastmin(h) ;  
scalar Ialcmmin ;  
scalar Iccmin ;  
scalar Yelecmin ;  
scalar Ipemmin ;  
scalar Ypvmin ;  
scalar Isrmin ;  
scalar Ywinmin ;  
scalar Ipvmin ;  
scalar Iwmin ;  
parameter RPVGENmin(h) ;  
parameter RWGENmin(h) ;  
parameter Speedmin(pipe);  
parameter H2Smin(hplus);  
parameter H2Ssmin(hplus);  
parameter H2Somin(hplus);  
parameter H2S2min(hplus);  
parameter H2Ss2min(hplus);  
parameter H2So2min(hplus);  
parameter H2Pipemin(h);  
parameter H2Tpipemin(h);  
\*parameter Yh2outmin(h);  
\*parameter Yh2inmin(h) ;  
scalar Nstomin;  
scalar Nsto2min;  
scalar PipeCostmin;



```

scalar StoCostmin ;
scalar CStaCostmin;
scalar CO2CSmin ;
scalar Zedmin ;
scalar Yamin;
scalar Ybmin;
scalar Ycmin;
scalar Ydmin;
scalar Yemin;
scalar Yasrmin;
scalar Ybsrmin;
scalar Ycsrmin;
scalar Ydsrmin;
scalar Yesrmin;
scalar Ypipemin;
scalar Ytruckmin;

```

```

Parameter result(windturbine,PVplants);

```

```

loop (windturbine,
    lw = numberWT(windturbine);
    loop (PVplants,
        lpv = numberPV(PVplants);
        Solve electro using mip minimizing Zed;
        result(windturbine,PVplants)=Zed.l;
        if(Zed.l lt minicost,
            capamin(itech)= capa.l(itech);
            CO2min = CO2.l ;
            CostBatmin = CostBat.l ;
            CostCCSRmin = CostCCSR.l ;
            CostEleSysmin= CostEleSys.l ;

```

CostH2SRmin = CostH2SR.I ;  
CostPVmin = CostPV.I ;  
CostWmin = CostW.I ;  
CostCompEmin= CostCompE.I ;  
EElecUsedmin= EElecUsed.I ;  
ENpvmin(h) = ENpv.I(h) ;  
ENwmin(h) = ENw.I(h) ;  
Grimin(h) = Gri.I(h) ;  
GriCmin(h) = GriC.I(h) ;  
GriEmin(h) = GriE.I(h) ;  
H2CCmin(h) = H2CC.I(h) ;  
H2elecmin(h,itech)= H2elec.I(h,itech) ;  
H2Importmin(h)= H2Import.I(h) ;  
H2SRmin(h,fuel)= H2SR.I(h,fuel) ;  
H2Hmin(h) = H2H.I(h) ;  
Yalcmin = Yalc.I ;  
Inbmin = Inb.I ;  
Ypemmin = Ypem.I ;  
Ysrmin = Ysr.I ;  
Yccmin = Ycc.I ;  
PVEWastmin(h)= PVEWast.I(h) ;  
Storamin(hplus) = S.I(hplus) ;  
Scmin(h) = Sc.I(h) ;  
Scpvmin(h) = Scpv.I(h) ;  
Scwmin(h) = Scw.I(h) ;  
Somin(h) = So.I(h) ;  
SoCmin(h) = SoC.I(h) ;  
SoEmin(h) = SoE.I(h) ;  
Ssmin(h) = Ss.I(h) ;  
Sspvmin(h) = Sspv.I(h) ;  
Sswmin(h) = Ssw.I(h) ;

$Sumin(h) = Su.l(h) ;$   
 $Supvmin(h) = Supv.l(h) ;$   
 $Suwmin(h) = Suw.l(h) ;$   
 $TH2min = TH2.l ;$   
 $TH2CCmin = TH2CC.l ;$   
 $TH2elecmin = TH2elec.l ;$   
 $TH2SRmin = TH2SR.l ;$   
 $*TotWasmin = TotWas.l ;$   
 $WEWastmin(h) = WEWast.l(h) ;$   
 $lalcmin = lalc.l ;$   
 $lccmin = lcc.l ;$   
 $Yelecmin = Yelec.l ;$   
 $lpemmin = lpem.l ;$   
 $Ypvmin = Ypv.l ;$   
 $lsrmin = lsr.l ;$   
 $Ywinmin = Ywin.l ;$   
 $minicost = Zed.l ;$   
 $lpvmin = lpv ;$   
 $lwmin = lw ;$   
 $RPVGENmin(h) = RPVGEN.l(h) ;$   
 $RWGENmin(h) = RWGEN.l(h) ;$   
 $Speedmin(pipe) = Speed.l(pipe);$   
 $H2Smin(hplus) = H2S.l(hplus);$   
 $H2Ssmin(hplus) = H2Ss.l(hplus);$   
 $H2Somin(hplus) = H2So.l(hplus);$   
 $H2S2min(hplus) = H2S2.l(hplus);$   
 $H2Ss2min(hplus) = H2Ss2.l(hplus);$   
 $H2So2min(hplus) = H2So2.l(hplus);$   
 $H2Pipemin(h) = H2Pipe.l(h);$   
 $H2Tpipemin(h) = H2Tpipe.l(h);$   
 $*Yh2outmin(h) = Yh2out.l(h);$

```
*Yh2inmin(h) = Yh2in.l(h) ;  
Nstomin= Nsto.l;  
Nsto2min= Nsto2.l;  
PipeCostmin= PipeCost.l;  
StoCostmin = StoCost.l ;  
CStaCostmin= CStaCost.l;  
CO2CSmin = CO2CS.l ;  
Yamin= Ya.l;  
Ybmin= Yb.l;  
Ycmin= Yc.l;  
Ydmin= Yd.l;  
Yemin= Ye.l;  
Yasrmin= Yasr.l;  
Ybsrmin= Ybsr.l;  
Ycsrmin= Ycsr.l;  
Ydsrmin= Ydsr.l;  
Yesrmin= Yesr.l;  
Ypipemin= Ypipe.l;  
Ytruckmin= Ytruck.l;
```

```
);  
);  
);
```

Display 'Optimization for each number of wind turbines:', result;

```
scalar avgcost;  
scalar avgCO2;  
scalar ElecCF;
```

scalar Eleunit;  
scalar Windunit;  
scalar PVunit;  
scalar BatUnit;  
scalar CompUnit;  
scalar PipeUnit;  
scalar StoUnit;  
scalar CompreStationUnit;  
scalar TruckUnit;  
scalar SMRUnit;  
scalar SMRCCUnit;

If (TH2min gt 0,  
avgcost = minicost/TH2min;  
avgCO2 = CO2min/TH2min;  
ElecCF = EElecUsedmin/(8760\*(p('ALC')\*Ialcmin+p('PEM')\*Ipemmin)));

Eleunit = CostEleSysmin/TH2min;  
Windunit = CostWmin/TH2min;  
PVunit = CostPVmin/TH2min;  
BatUnit = CostBatmin/TH2min;  
CompUnit = CostCompEmin/TH2min;  
PipeUnit = PipeCostmin/TH2min;  
StoUnit = StoCostmin/TH2min;  
CompreStationUnit = CStaCostmin/TH2min;  
TruckUnit = Ytruckmin\*CostTrucks/TH2min;  
SMRUnit = CostH2SRmin/TH2min;  
SMRCCUnit = CostCCSRmin/TH2min;

```
Display 'Average cost of hydrogen:',avgcost;
Display 'Average CO2 emissions of hydrogen production, in kgCO2/kgH2:',avgCO2;
Display 'Capacity factor of electrolyser:',ElecCF;
Display 'Unit cost of electrolyser:',Eleunit;
Display 'Unit cost of Wind plant:',Windunit;
Display 'Unit cost of PV plants:',PVunit;
Display 'Unit cost of bateries:',BatUnit;
Display 'Unit cost of compressors:',CompUnit;
Display 'Unit cost of pipelines:',PipeUnit;
Display 'Unit cost of storage:',StoUnit;
Display 'Unit cost of compression stations:',CompreStationUnit;
Display 'Unit cost of Trucks:',TruckUnit;
Display 'Unit cost of SMR:',SMRUnit;
Display 'Unit cost of SMR CCS:',SMRCCUnit;
```

```
else
```

```
avgcost = 0;
```

```
avgCO2 = 0;
```

```
ElecCF = 0;
```

```
Eleunit = 0;
```

```
Windunit = 0;
```

```
PVunit = 0;
```

```
BatUnit = 0;
```

```
CompUnit = 0;
```

```
Display 'Production of hydrogen is zero, you are only importing it';
```

```
);
```

```
Display 'Other variables',
```

```
capamin,
```

CO2min ,  
CostBatmin ,  
CostCCSRmin ,  
CostEleSysmin,  
CostH2SRmin ,  
CostPVmin ,  
CostWmin ,  
EElecUsedmin ,  
ENpvmin,  
ENwmin,  
Grimin,  
GriCmin,  
GriEmin,  
H2CCmin,  
H2elecmin,  
H2Importmin,  
H2SRmin,  
H2Hmin,  
Ialcmn ,  
Ipemmin,  
Inbmin ,  
PVEWastmin,  
Storamin,  
Scmin,  
Scpvmin,  
Scwmin,  
Somin,  
SoCmin,  
SoEmin,  
Ssmin,  
Sspvmin,

Sswmin,  
Sumin,  
Supvmin,  
Suwmin,  
TH2min ,  
TH2CCmin ,  
TH2elecmin ,  
TH2SRmin ,  
\*TotWasmin ,  
WEWastmin,  
Ialcmin ,  
Ipemmin,  
Iccmin ,  
Yelecmin ,  
Ypvmin ,  
Isrmin ,  
Ywinmin ,  
minicost ,  
Ipvmin ,  
Iwmin ,  
RPVGENmin,  
RWGENmin  
Speedmin,  
H2Smin,  
H2Ssmin,  
H2Somin,  
H2S2min,  
H2Ss2min,  
H2So2min,  
H2Pipemin,  
H2Tpipemin,



\*Yh2outmin,  
\*Yh2inmin,  
Nstomin,  
Nsto2min,  
PipeCostmin,  
StoCostmin,  
CStaCostmin,  
CO2CSmin,  
Yamin,  
Ybmin,  
Ycmin,  
Ydmin,  
Yemin,  
Ypipemin,  
Ytruckmin

;

file resultWPV /resultWPV.txt/;

put resultWPV;

put 'Results for different numbers of solar PV plants and wind turbines'//;

loop((windturbine,PVplants),put  
windturbine.tl,@12,PVplants.tl,@24,result(windturbine,PVplants)/);

file resultVariables /resultVariables.txt/;

put resultVariables;

put 'Results for the variables'//;

put 'Average cost for H2, in USD/kg'//;

put avgcost/;

put resultVariables;

```
put 'Average CO2 emissions, in kgCO2/kgH2'/;
put avgCO2/;
put resultVariables;
put 'Capacity factor of electrolyser'/;
put ElecCF/;
put resultVariables;
put 'Used the Alkaline electrolyser?'/;
put Yalcmin/;
put resultVariables;
put 'Used the PEM electrolyser?'/;
put Ypemmin /;
put resultVariables;
put 'Used the SMR without CCS?'/;
put Ysrmin /;
put resultVariables;
put 'Used the SMR with CCS?'/;
put Yccmin /;
put resultVariables;
put 'How many batteries?'/;
put Inbmin/;
put resultVariables;
put 'How many alkaline electrolyzers of 20 MW?'/;
put lalcmin/;
put resultVariables;
put 'How many PEM electrolyzers of 1 MW?'/;
put lpemmin/;
put resultVariables;
put 'Used SMR CCS?'/;
put lccmin /;
put resultVariables;
put 'Used SMR without CCS?'/;
```

```
put Isrmin/;
put resultVariables;
put 'Used solar PV plants?'/;
put Ypvmin/;
put resultVariables;
put 'Used wind turbines?'/;
put Ywinmin/;
put resultVariables;
put 'Total cost of the project'/;
put minicost/;
put resultVariables;
put 'How many solar PV plants of 2 MW?'/;
put Ipvmin/;
put resultVariables;
put 'How many wind turbines of 3.2 MW?'/;
put Iwmin /;
put resultVariables;
put 'Total cost of batteries system: '/;
put CostBatmin /;
put resultVariables;
put 'Total cost of SMR: '/;
put CostH2SRmin /;
put resultVariables;
put 'Total cost of PV system: '/;
put CostPVmin /;
put resultVariables;
put 'Total cost of Wind plants: '/;
put CostWmin /;
put resultVariables;
put 'Total total electricity used by the electrolyser: '/;
put EElecUsedmin /;
```

```
put resultVariables;
put 'Total hydrogen produced: '/;
put TH2min /;
put resultVariables;
put 'Total hydrogen produced via electrolysis: '/;
put TH2elecmin /;
put resultVariables;
put 'Total hydrogen produced via SMR: '/;
put TH2SRmin /;
put resultVariables;
put 'Total hydrogen produced via SMR with CCS: '/;
put TH2CCmin /;

put resultVariables;
put 'Number of units of storage associated to pipes: '/;
put Nstomin /;
put resultVariables;
put 'Number of units of storage associated to trucks: '/;
put Nsto2min /;
put resultVariables;
put 'Total cost of pipelines: '/;
put PipeCostmin /;
put resultVariables;
put 'Total cost of storage: '/;
put StoCostmin /;
put resultVariables;
put 'Total cost of Compression stations: '/;
put CStacostmin /;
put resultVariables;
put 'Total CO2 emissions from compression stations: '/;
put CO2CSmin /;
```

```
put resultVariables;
put 'Used pipes?'/;
put Ypipemin /;
put resultVariables;
put 'Used trucks?'/;
put Ytruckmin/;
put resultVariables;
put 'Used pipe A?'/;
put Yamin /;
put resultVariables;
put 'Used pipe B?'/;
put Ybmin /;
put resultVariables;
put 'Used pipe C?'/;
put Ycmin /;
put resultVariables;
put 'Used pipe D?'/;
put Ydmin /;
put resultVariables;
put 'Used pipe E?'/;
put Yemin /;
put resultVariables;
put 'Used pipe A SMR?'/;
put Yasrmin /;
put resultVariables;
put 'Used pipe B SMR?'/;
put Ybsrmin /;
put resultVariables;
put 'Used pipe C SMR?'/;
put Ycsrmin /;
put resultVariables;
```

```
put 'Used pipe D SMR?'/;
```

```
put Ydsrmin /;
```

```
put resultVariables;
```

```
put 'Used pipe E SMR?'/;
```

```
put Yesrmin /;
```

```
file resultDepVariables /resultDepVariables.txt/;
```

```
put resultDepVariables;
```

```
put 'Imported hydrogenm in kg:'/;
```

```
loop((h),put h.tl,@12,H2Importmin(h)/);
```

```
put resultDepVariables;
```

```
put 'Electricity from PV to electrolyser, in kWh:'/;
```

```
loop((h),put h.tl,@12,ENpvmin(h)/);
```

```
put resultDepVariables;
```

```
put 'Electricity from Wind to electrolyser, in kWh:'/;
```

```
loop((h),put h.tl,@12,ENwmin(h)/);
```

```
put resultDepVariables;
```

```
put 'Electricity purchased from the grid to the compressor, in kWh:'/;
```

```
loop((h),put h.tl,@12,GriCmin(h)/);
```

```
put resultDepVariables;
```

```
put 'Electricity purchased from the grid to the electrolyser, in kWh:'/;
```

```
loop((h),put h.tl,@12,GriEmin(h)/);
```

```
put resultDepVariables;
```

```
put 'Total electricity purchased from the grid, in kWh:'/;
```

```
loop((h),put h.tl,@12,Grimin(h)/);
```

```
put resultDepVariables;  
put 'H2 produced via SMR with CCS, in kg:.'/;  
loop((h),put h.tl,@12,H2CCmin(h)/);
```

```
put resultDepVariables;  
put 'H2 produced via electrolyser, in kg:.'/;  
loop((h,itech),put h.tl,@12,itech.tl,@24,H2elecmin(h,itech)/);
```

```
put resultDepVariables;  
put 'H2 produced via SMR, in kg:.'/;  
loop((h),put h.tl,@12,H2SRmin(h,'GN')/);
```

```
put resultDepVariables;  
put 'Energy in the batteries, in kWh:.'/;  
loop((hplus),put hplus.tl,@12,Storamin(hplus)/);
```

```
put resultDepVariables;  
put 'Total electricity surplus that is commercialized, in kWh:.'/;  
loop((h),put h.tl,@12,Scmin(h)/);
```

```
put resultDepVariables;  
put 'Total electricity surplus that is stored, in kWh:.'/;  
loop((h),put h.tl,@12,Ssmin(h)/);
```

```
put resultDepVariables;  
put 'Solar PV electricity surplus that is stored:.'/;  
loop((h),put h.tl,@12,Sspvmin(h)/);
```

```
put resultDepVariables;  
put 'Wind electricity surplus that is stored:.'/;  
loop((h),put h.tl,@12,Sswmin(h)/);
```

```
put resultDepVariables;  
put 'Electricity from the battery to the electrolyser, in kWh: '/;  
loop((h),put h.tl,@12,SoEmin(h)/);
```

```
put resultDepVariables;  
put 'Electricity from the battery to the compressor, in kWh: '/;  
loop((h),put h.tl,@12,SoCmin(h)/);
```

```
put resultDepVariables;  
put 'Electricity from Wind not used, in kWh: '/;  
loop((h),put h.tl,@12,WEWastmin(h)/);
```

```
put resultDepVariables;  
put 'Total electricity from wind used, in kWh: '/;  
loop((h),put h.tl,@12,RWGENmin(h)/);
```

```
put resultDepVariables;  
put 'Total electricity from PV used, in kWh: '/;  
loop((h),put h.tl,@12,RPVGENmin(h)/);
```

```
put resultDepVariables;  
put 'Hourly production of hydrogen: '/;  
loop((h),put h.tl,@12,H2Hmin(h)/);
```

```
put resultDepVariables;  
put 'Speed of H2 in pipelines: '/;
```



```
loop((pipe),put pipe.tl,@12,Speedmin(pipe));
```

```
put resultDepVariables;
```

```
put 'Hydrogen stored associated to pipes';
```

```
loop((hplus),put hplus.tl,@12,H2Smin(hplus));
```

```
put resultDepVariables;
```

```
put 'Hydrogen stored input associated to pipes';
```

```
loop((hplus),put hplus.tl,@12,H2Ssmin(hplus));
```

```
put resultDepVariables;
```

```
put 'Hydrogen stored output associated to pipes';
```

```
loop((hplus),put hplus.tl,@12,H2Somin(hplus));
```

```
put resultDepVariables;
```

```
put 'Hydrogen stored associated to trucks';
```

```
loop((hplus),put hplus.tl,@12,H2S2min(hplus));
```

```
put resultDepVariables;
```

```
put 'Hydrogen stored input associated to trucks';
```

```
loop((hplus),put hplus.tl,@12,H2Ss2min(hplus));
```

```
put resultDepVariables;
```

```
put 'Hydrogen stored output associated to trucks';
```

```
loop((hplus),put hplus.tl,@12,H2So2min(hplus));
```

```
put resultDepVariables;
```

```
put 'Hydrogen produced direct to pipelines:';
```

```
loop((h),put h.tl,@12,H2Pipemin(h));
```

```
put resultDepVariables;
```

```
put 'Hydrogen in the pipelines (stored and directly):'/;
```

```
loop((h),put h.tl,@12,H2Tpipemin(h)/);
```

```
*put resultDepVariables;
```

```
*put 'Hydrogen output storage?'/;
```

```
*loop((h),put h.tl,@12,Yh2outmin(h)/);
```

```
*put resultDepVariables;
```

```
*put 'Hydrogen input storage?'/;
```

```
*loop((h),put h.tl,@12,Yh2inmin(h)/);
```