

FE Demand Trajectories for the SDP

Relative Reduction Factors for SDP

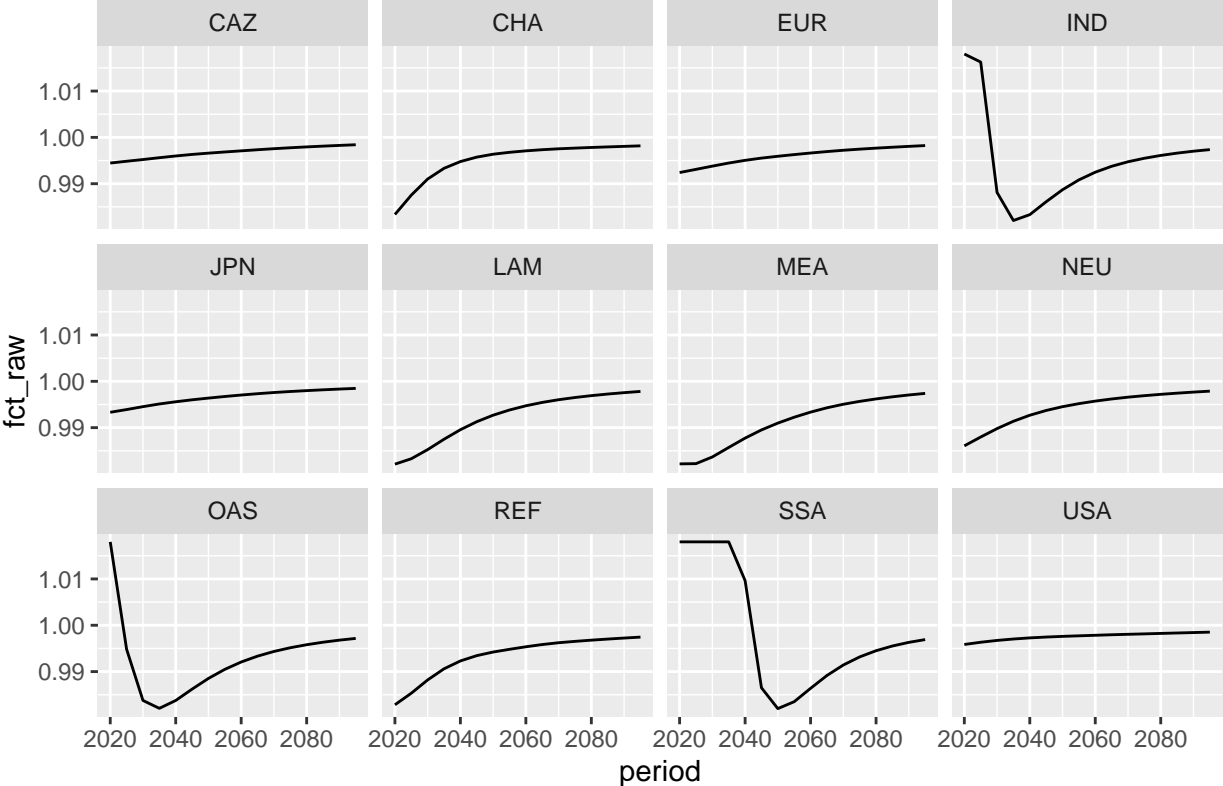
relative to SSP1 or SSP2, whichever is lower for a given quantity. The reduction factor is calculated according to the following equation:

$$F = 1 + \min \left\{ A, 4\epsilon \left[\left(\frac{\sigma}{p} \right)^\delta - \left(\frac{\sigma}{p} \right)^\gamma \right] \right\}$$

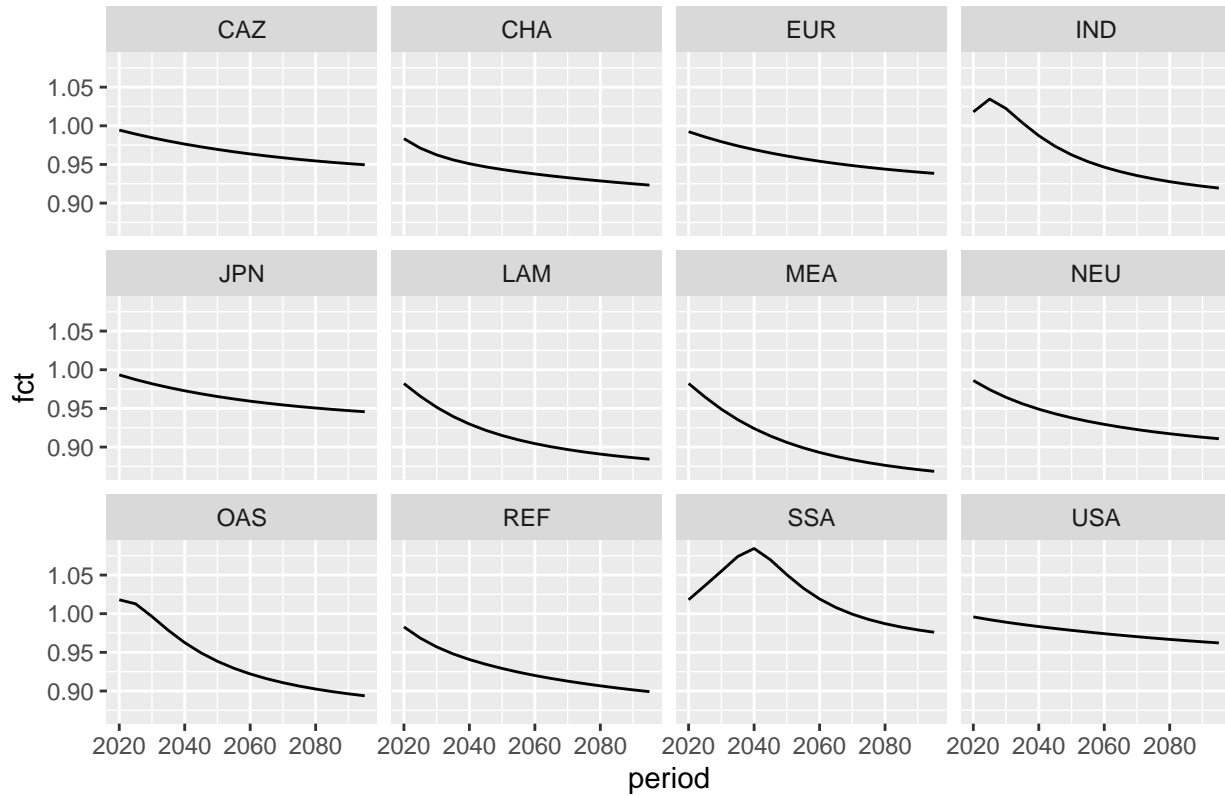
where A is the cutoff for the reduction factor, ϵ is specifying the depth of the reduction, σ is the GDP per capita value where the factor is 0, p is the GDP per capita and δ and γ are exponents.

The reduction factor which is used in the following displayed in the time domain:

Relative Reduction Factor wrt SSP1/SSP2



Absolute Factor wrt SSP1/SSP2 (cumulative product)



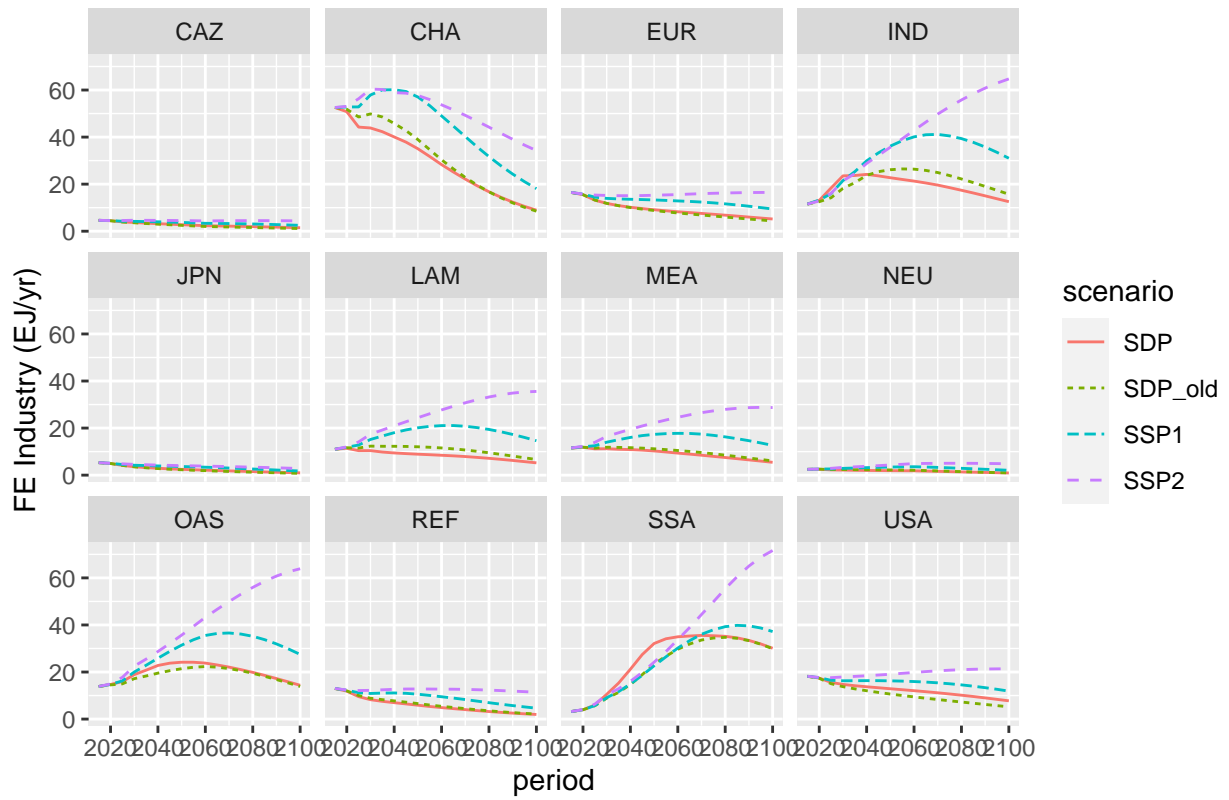
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## [1] "A: 1.018000, sigma: 8000.000000, epsilon: 0.018000, delta: 3.000000, gamma: 1.500000"
```

Total Demands

Industry

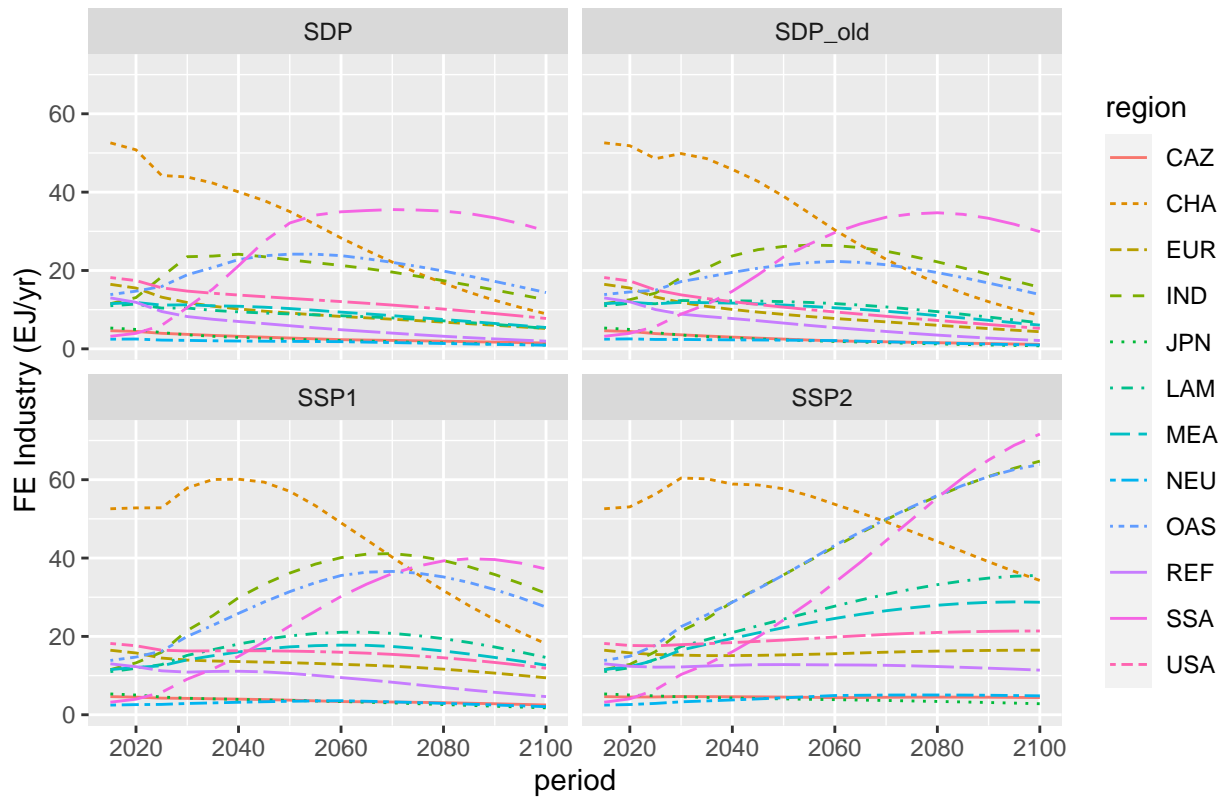
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## Warning: Removed 432 row(s) containing missing values (geom_path).
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Total FE Industry Demands



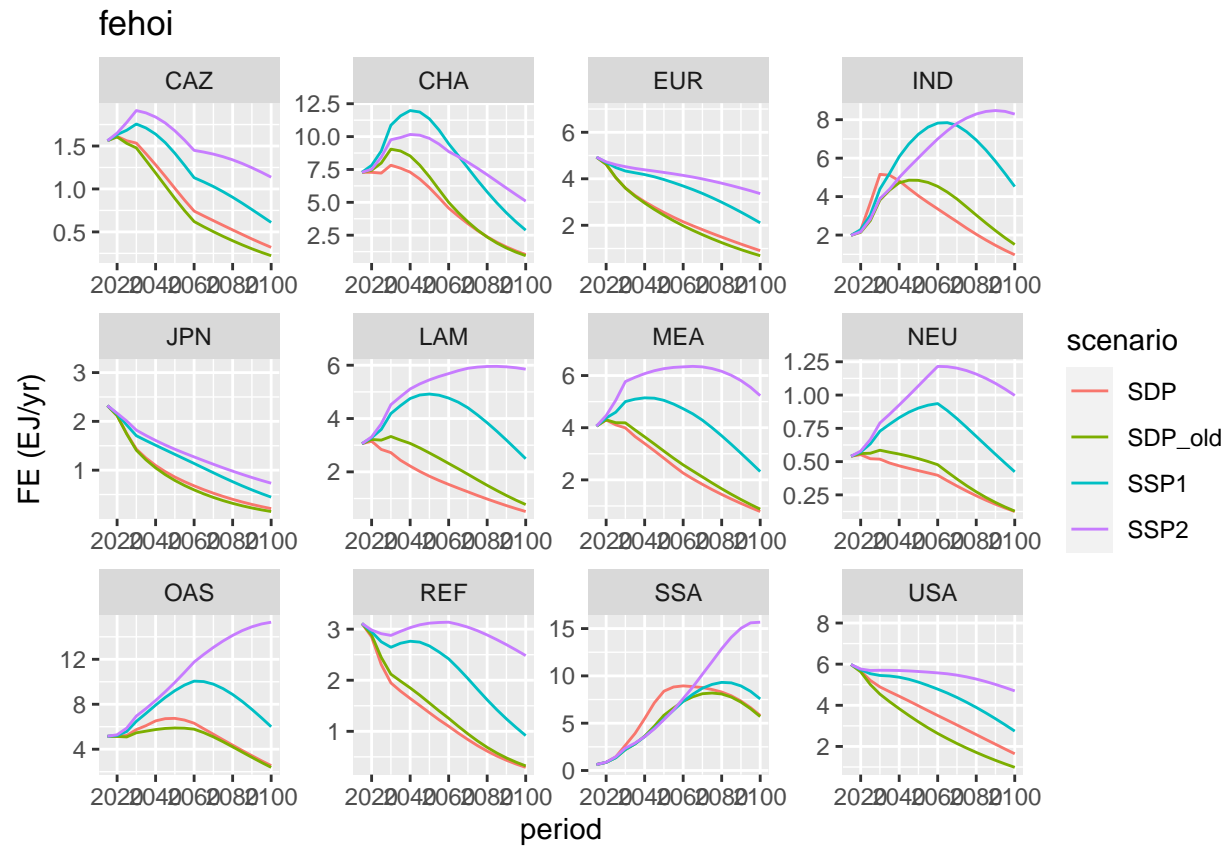
Warning: Removed 1296 row(s) containing missing values (geom_path).

Total FE Industry Demands



\$fehoi

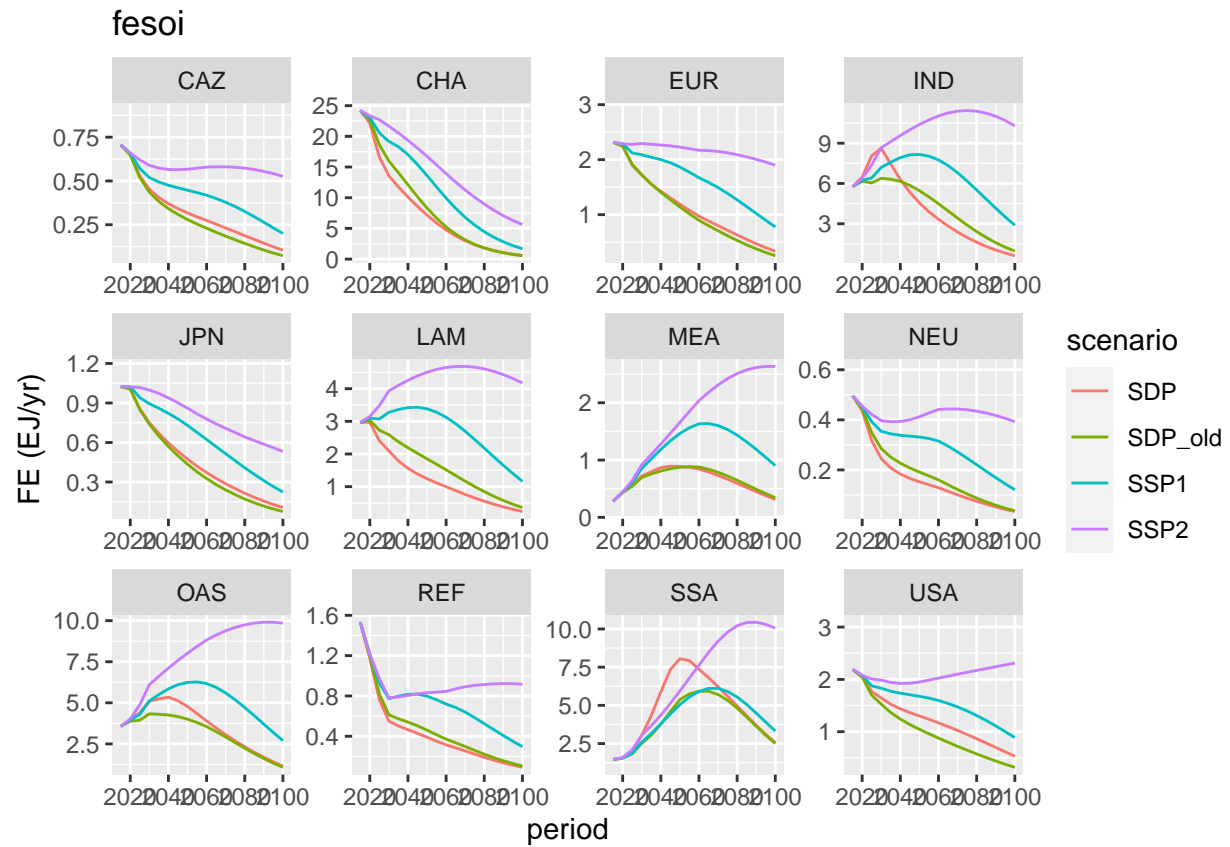
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\$fesoi

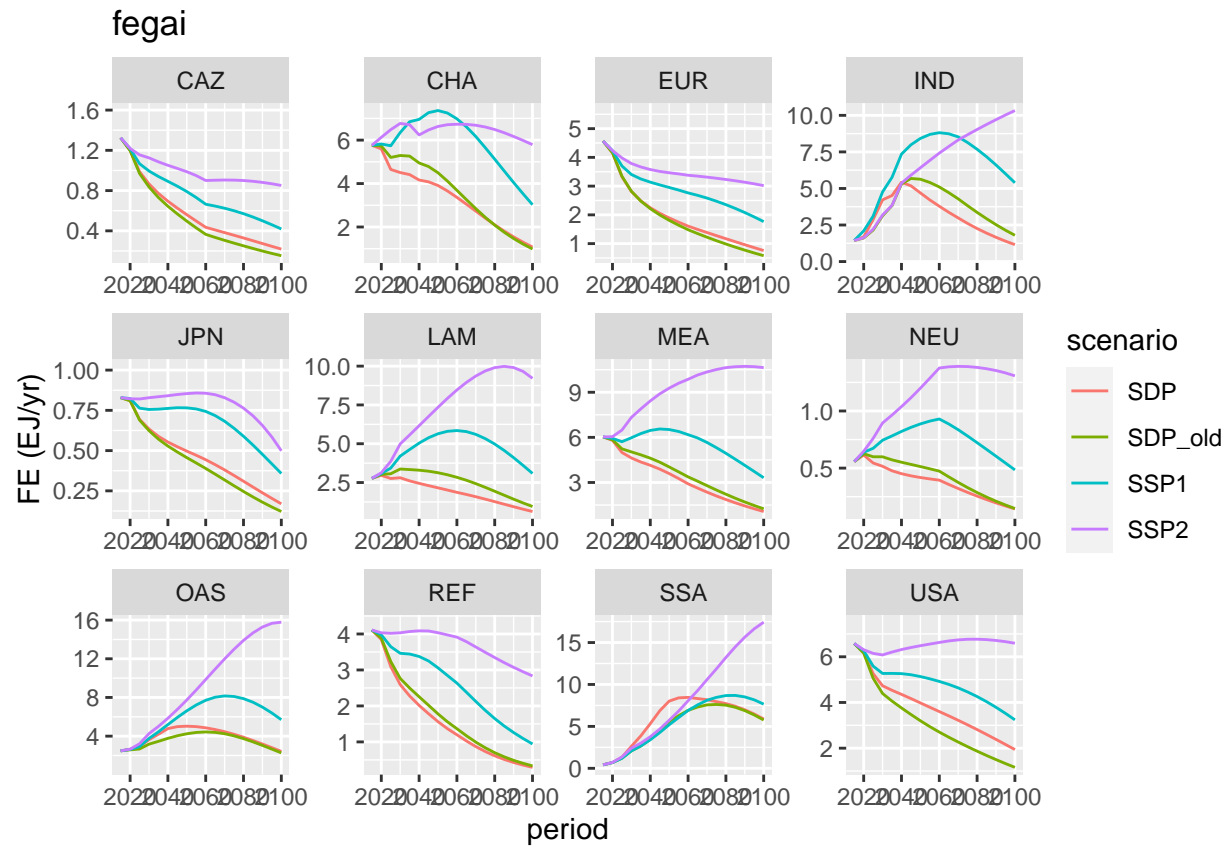
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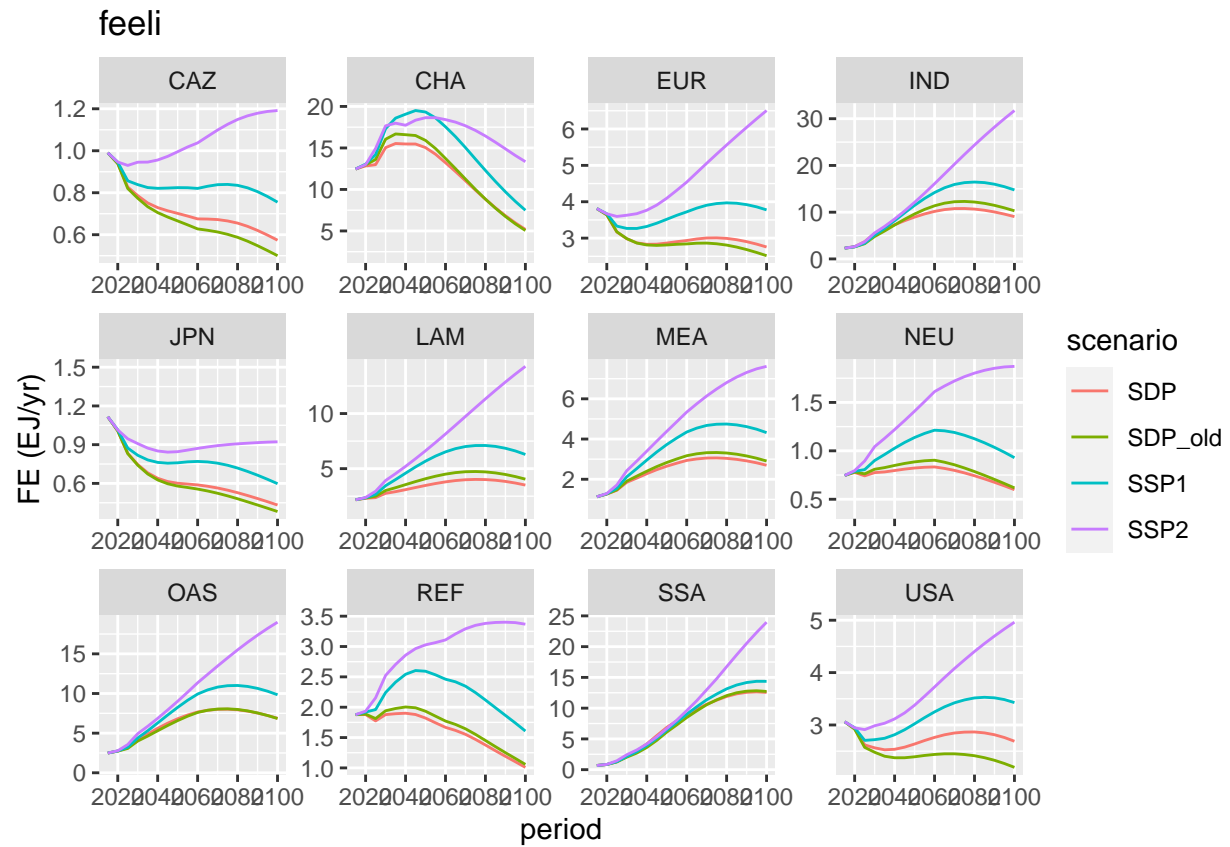
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\$feeli

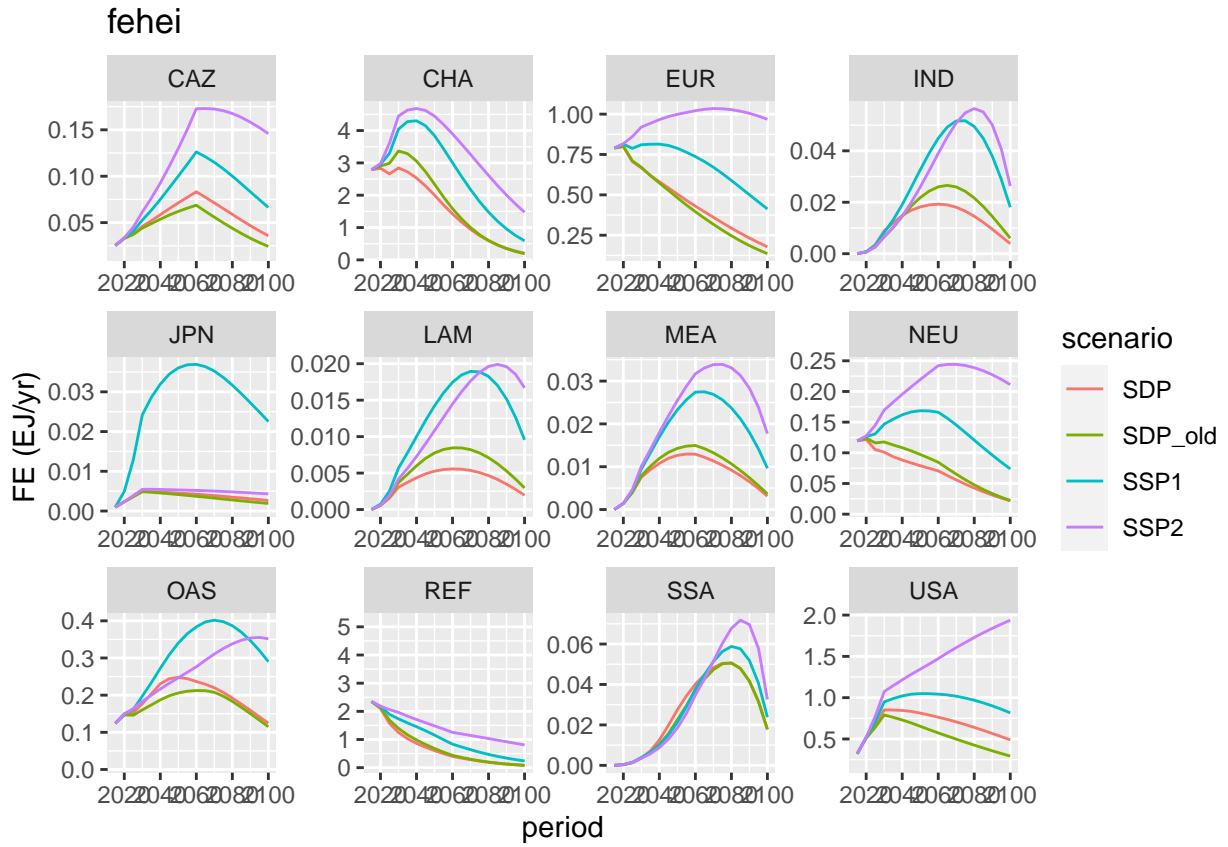
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\$fehei

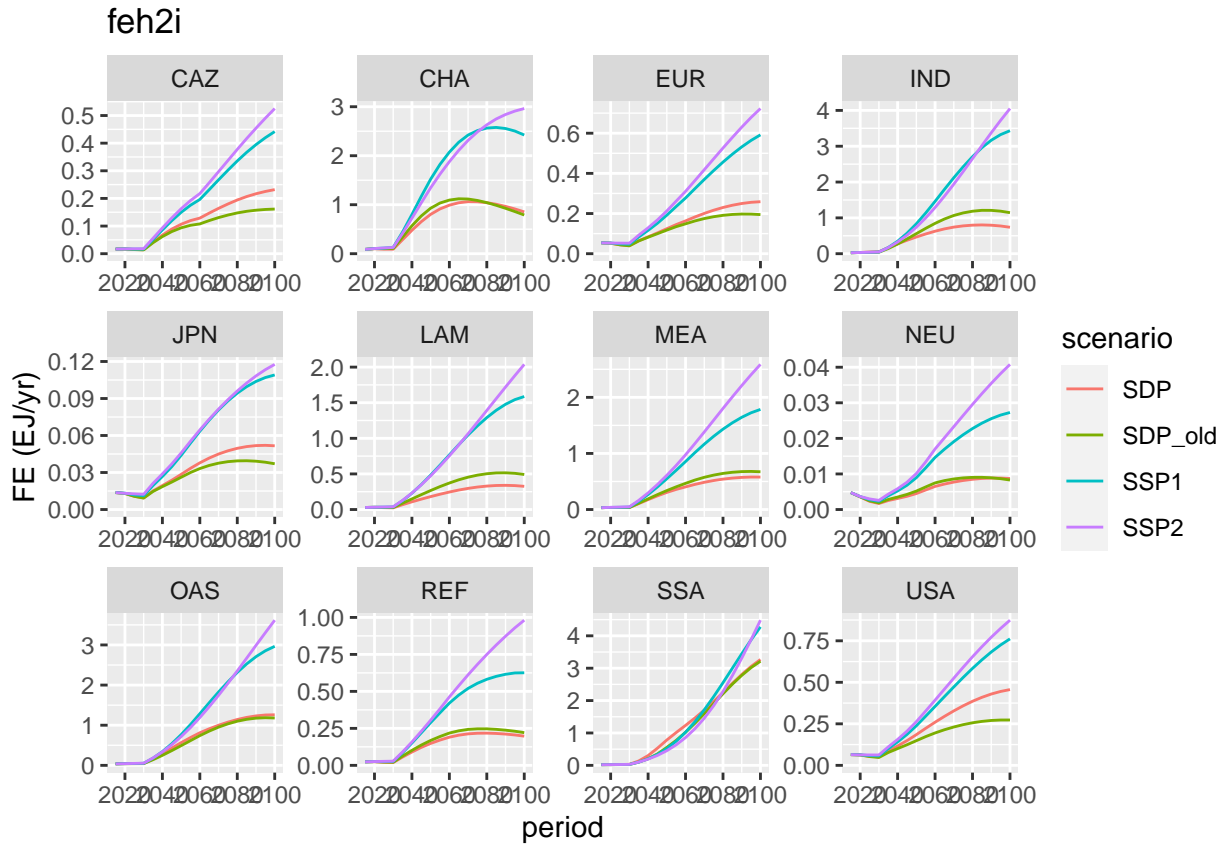
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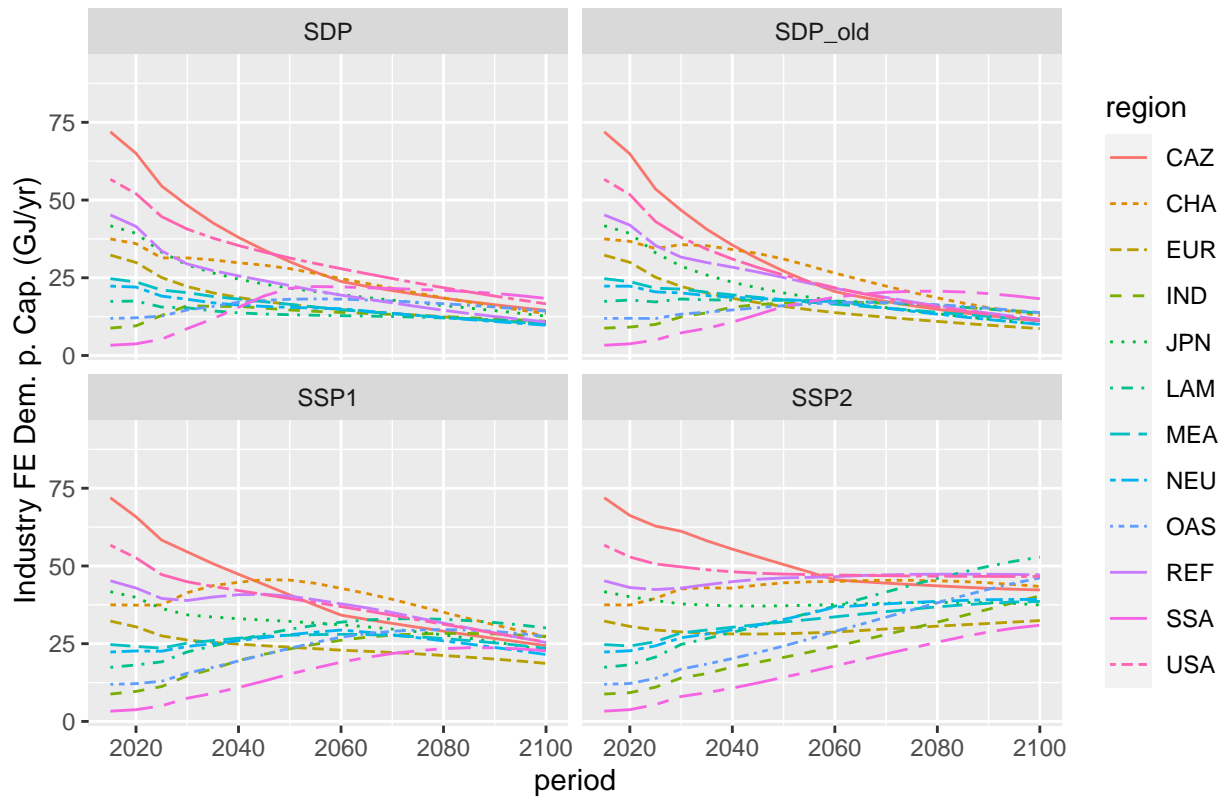
Buildings - FE

Per Capita Demands - Time Domain

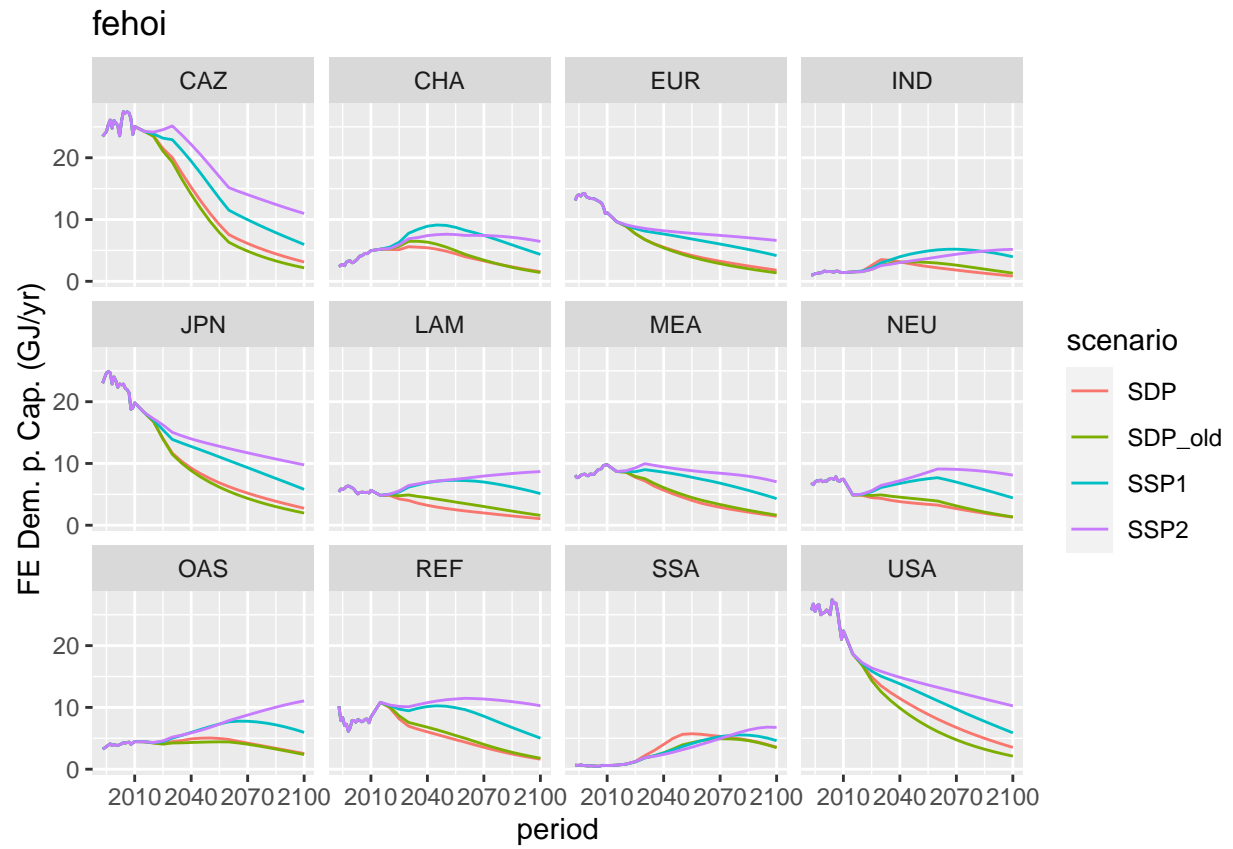
Industry

Warning: Removed 1296 row(s) containing missing values (geom_path).

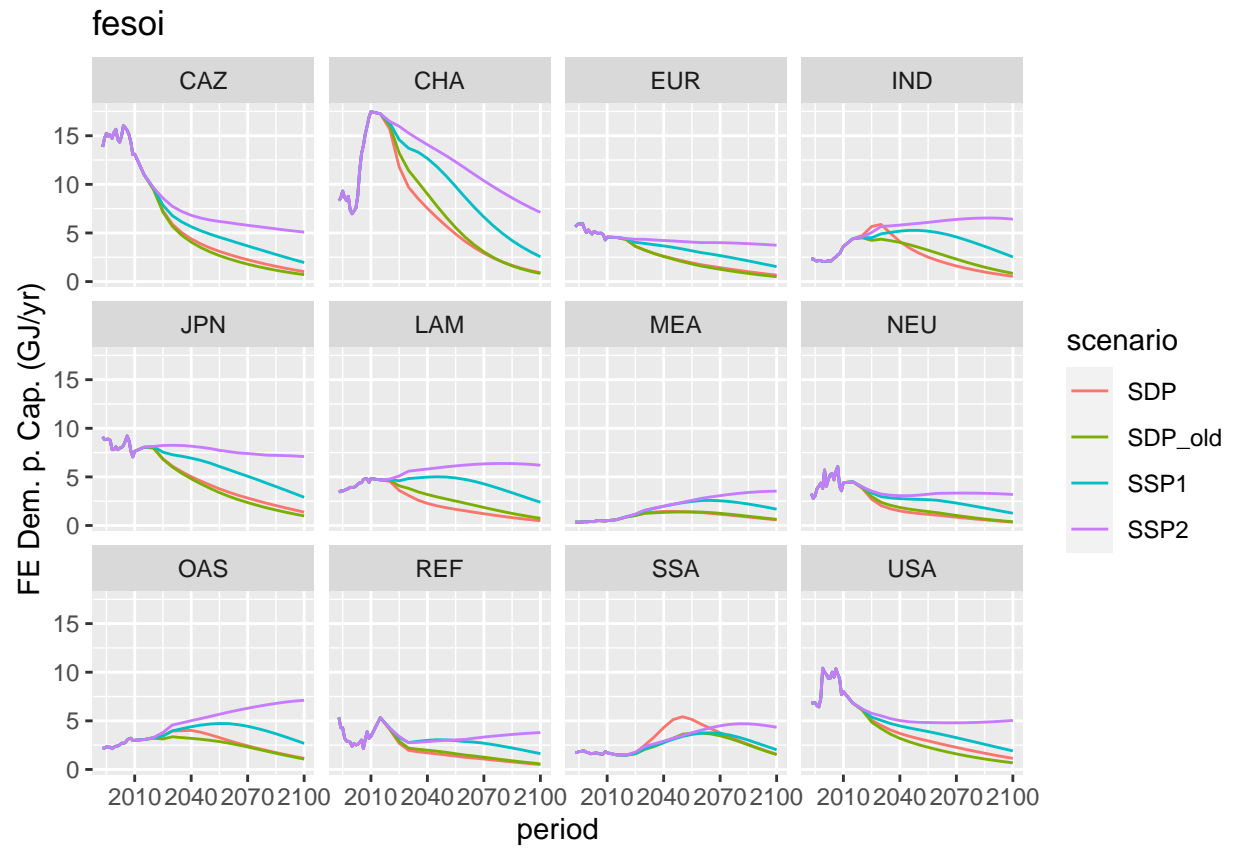
FE Industry Demand per Capita, Time Domain



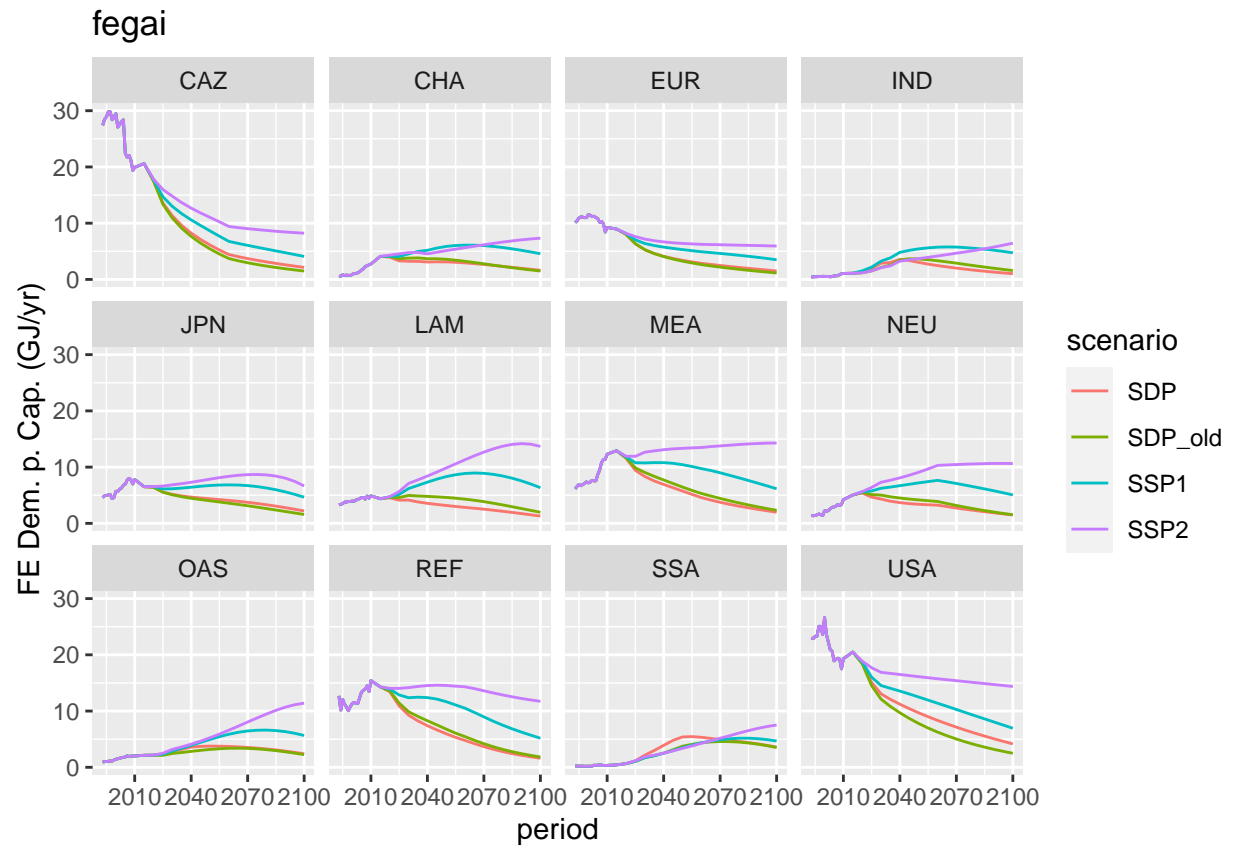
\$fehoi



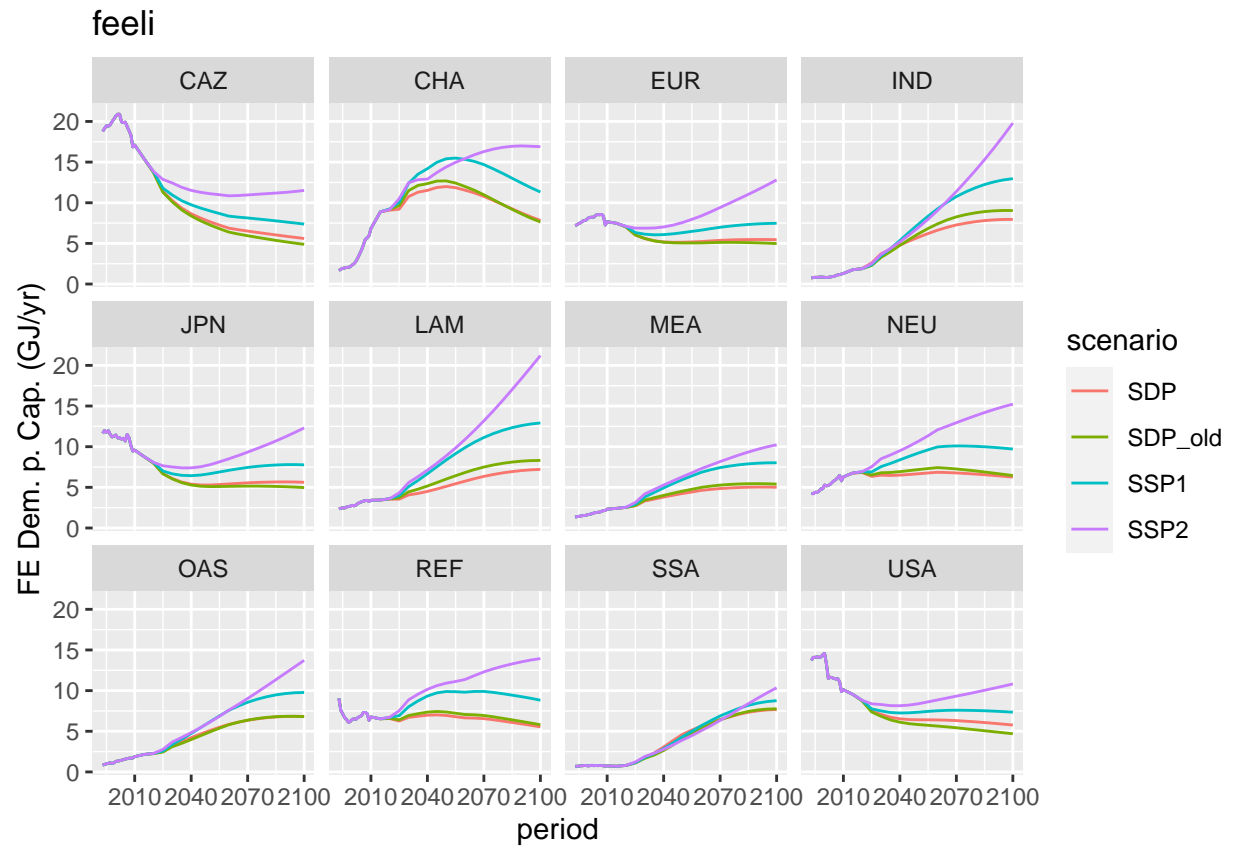
\$fesoi



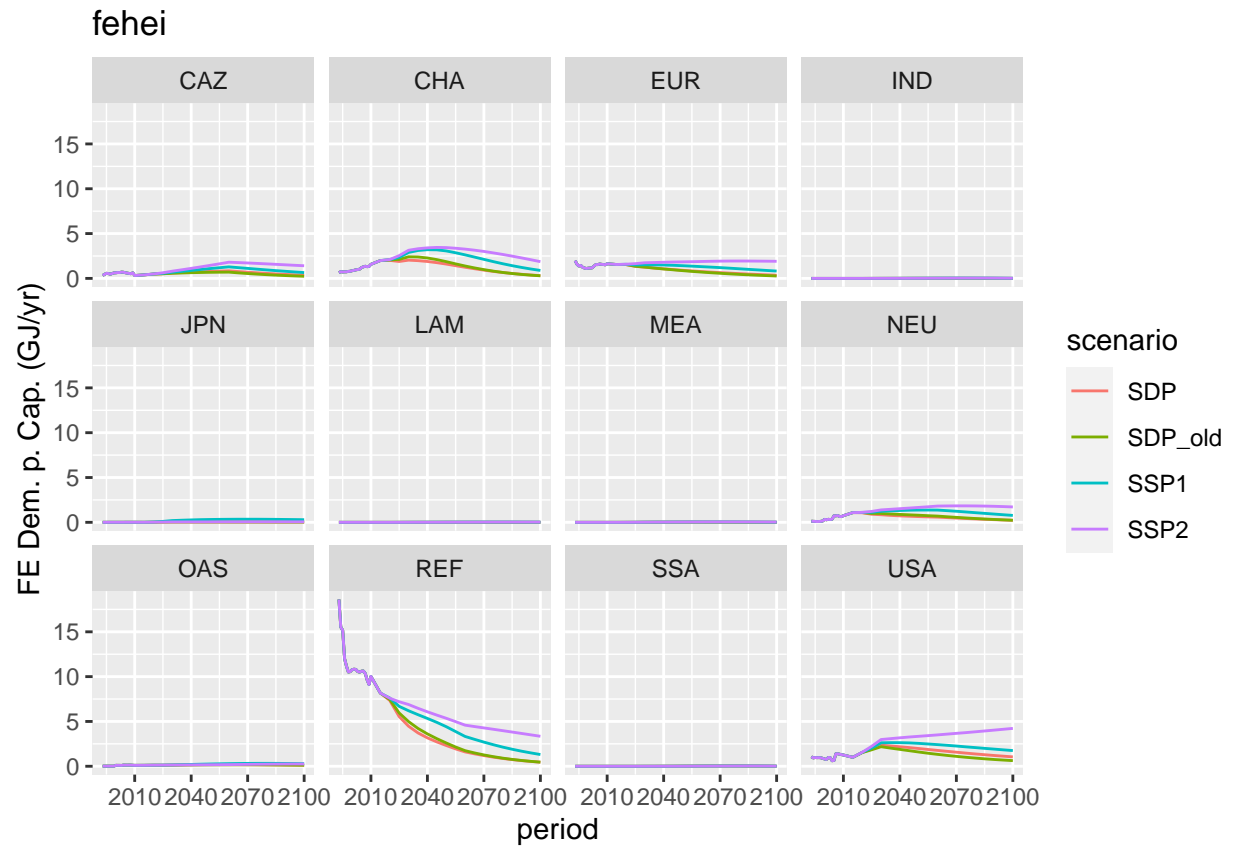
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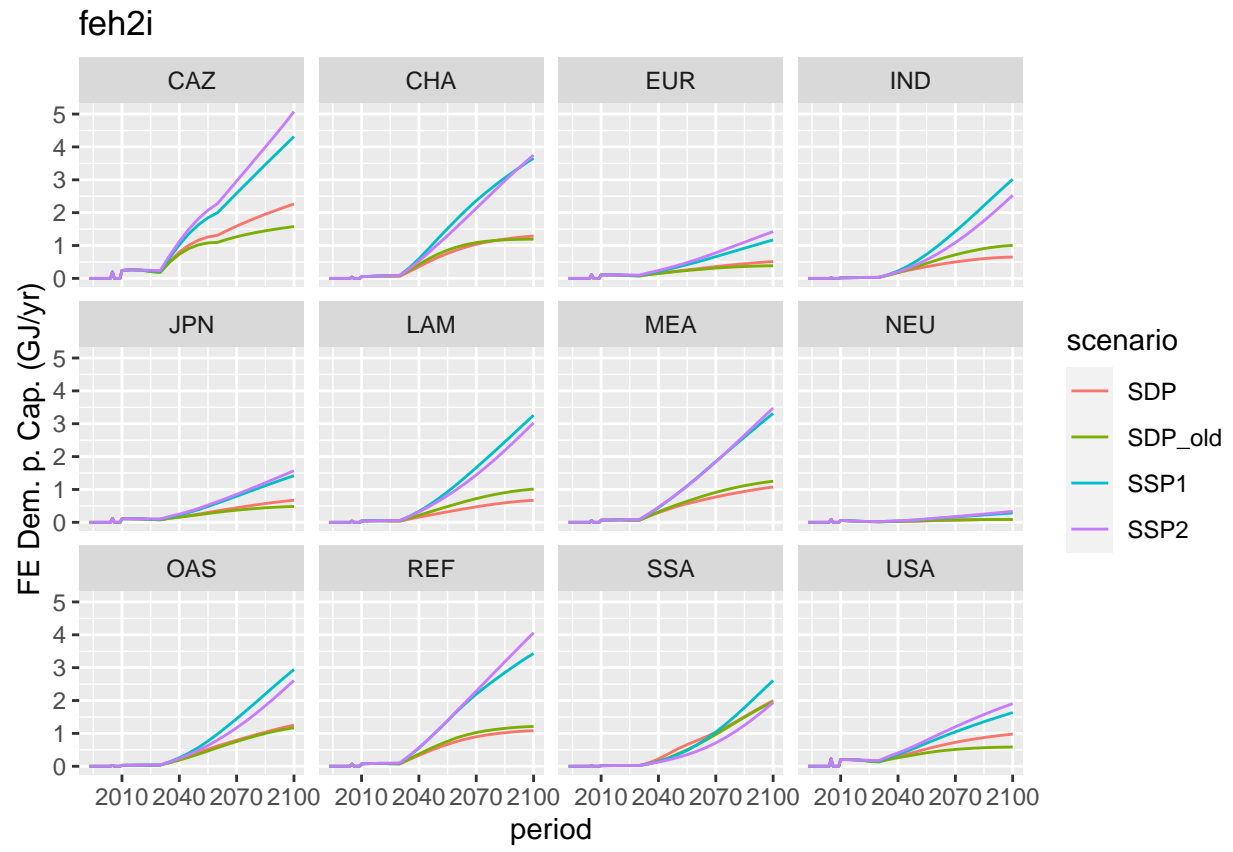
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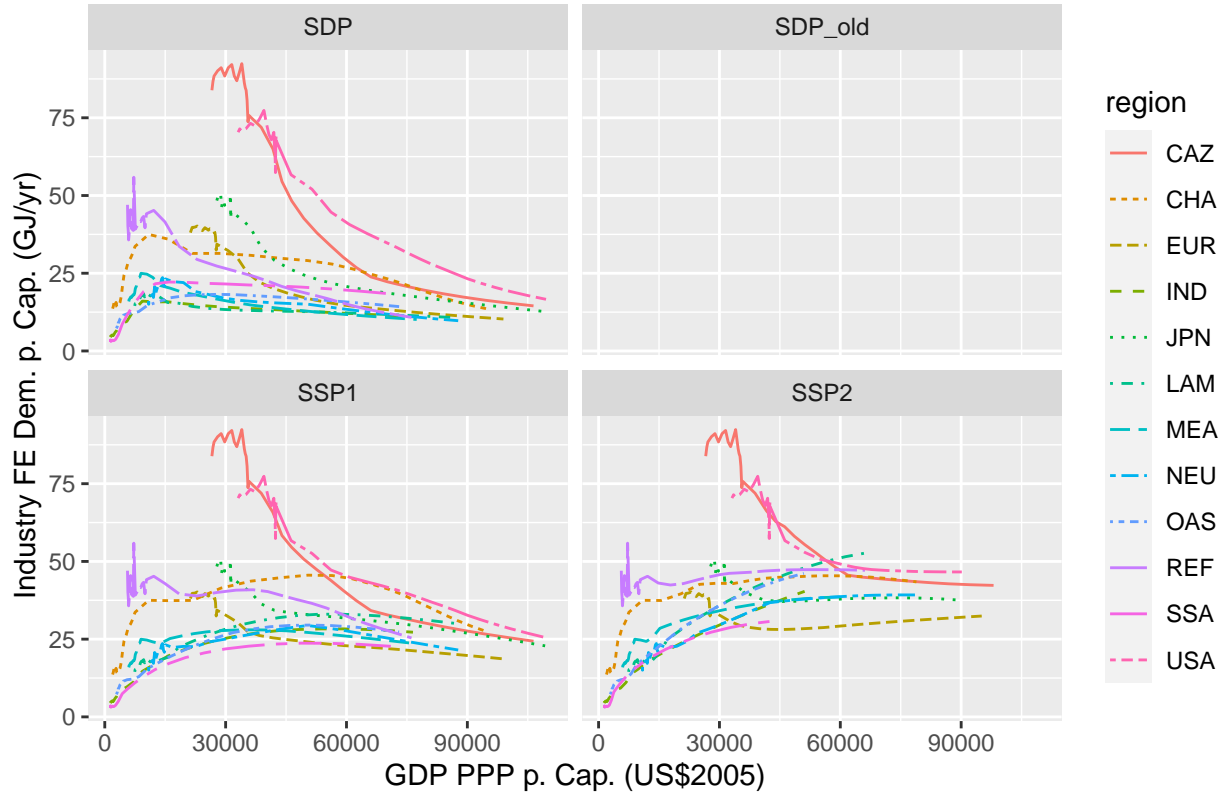
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Per Capita Demands - GDP Domain

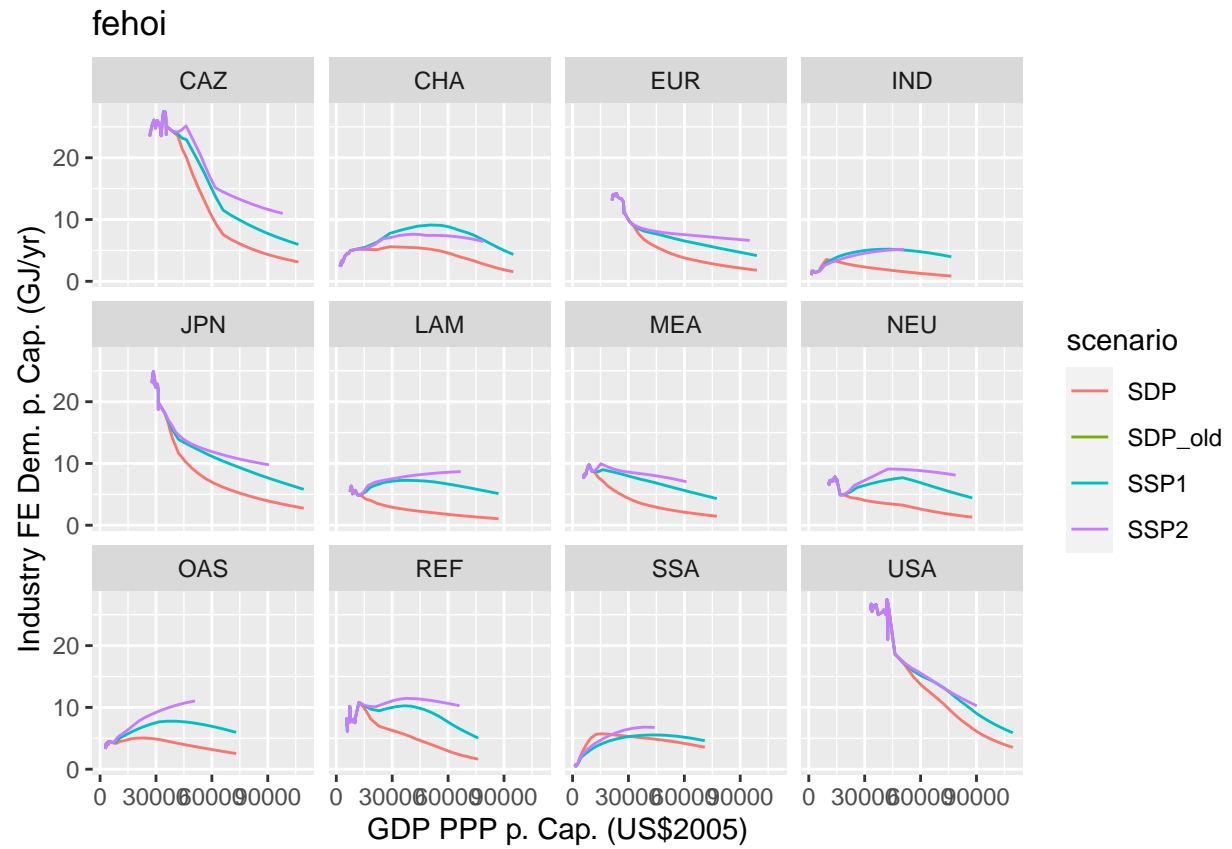
Industry

FE Industry Demand per Capita, GDP p. Cap. Domain



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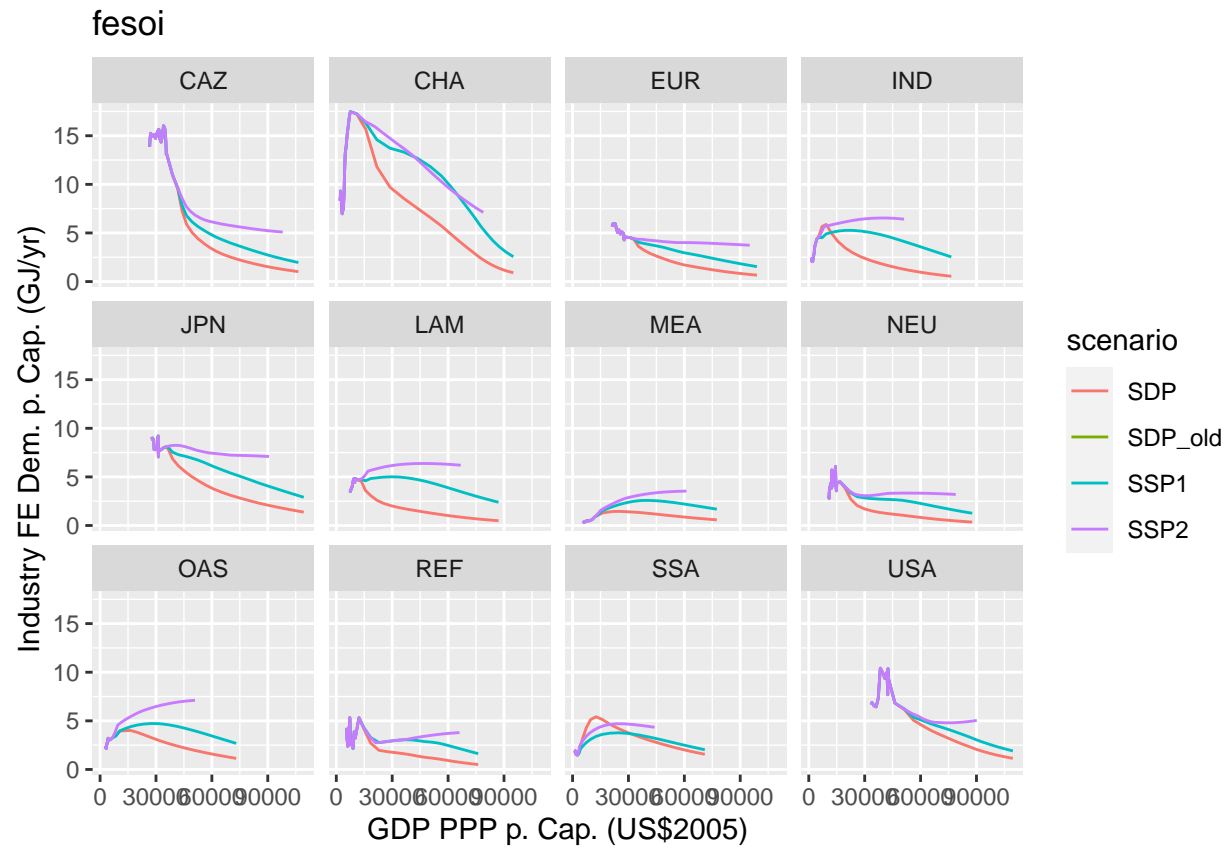
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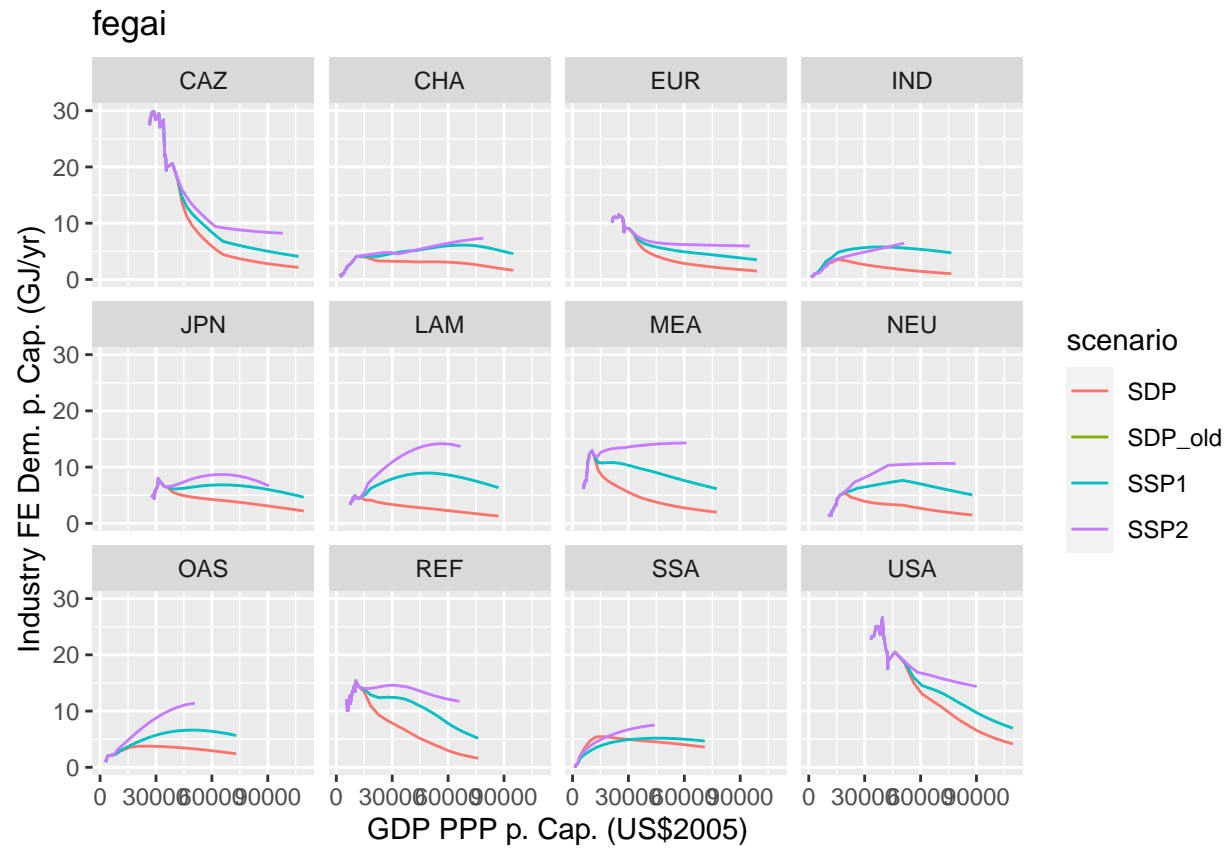
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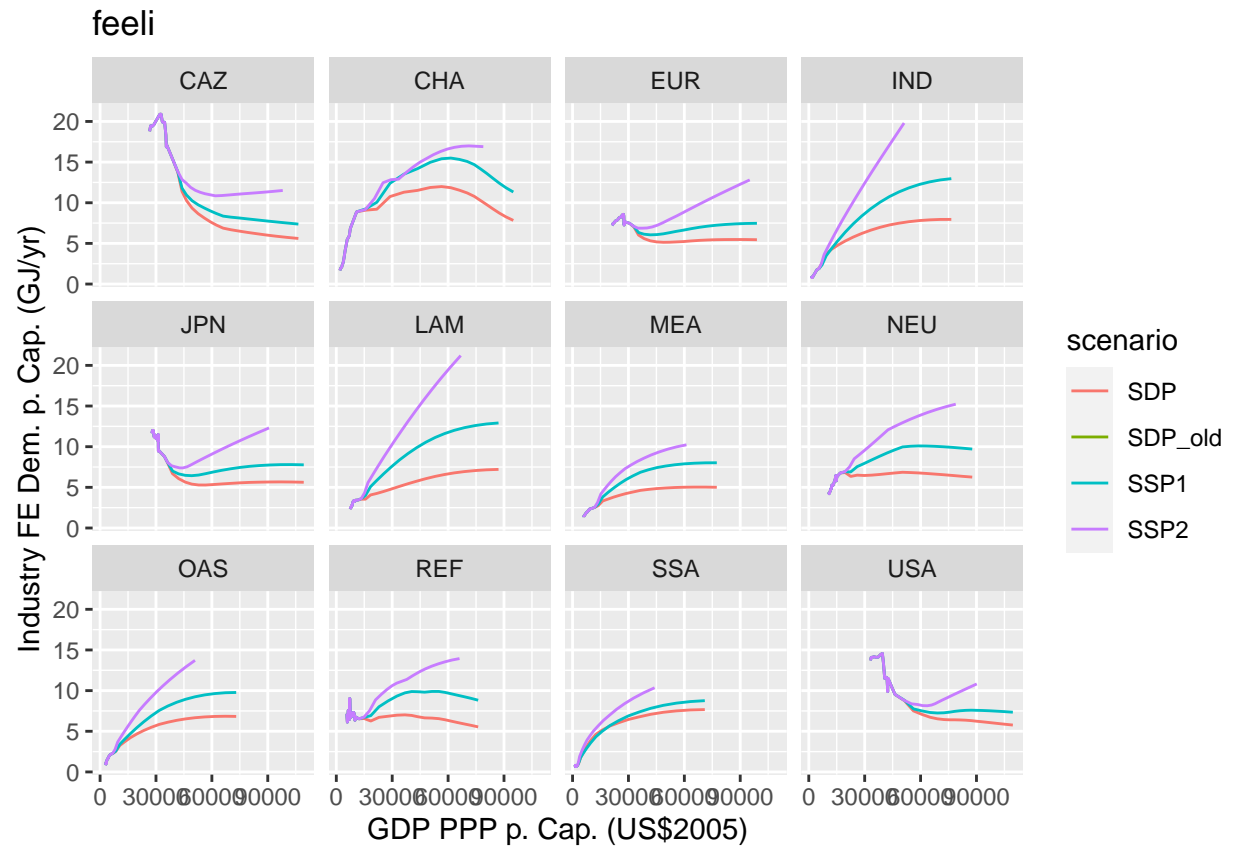
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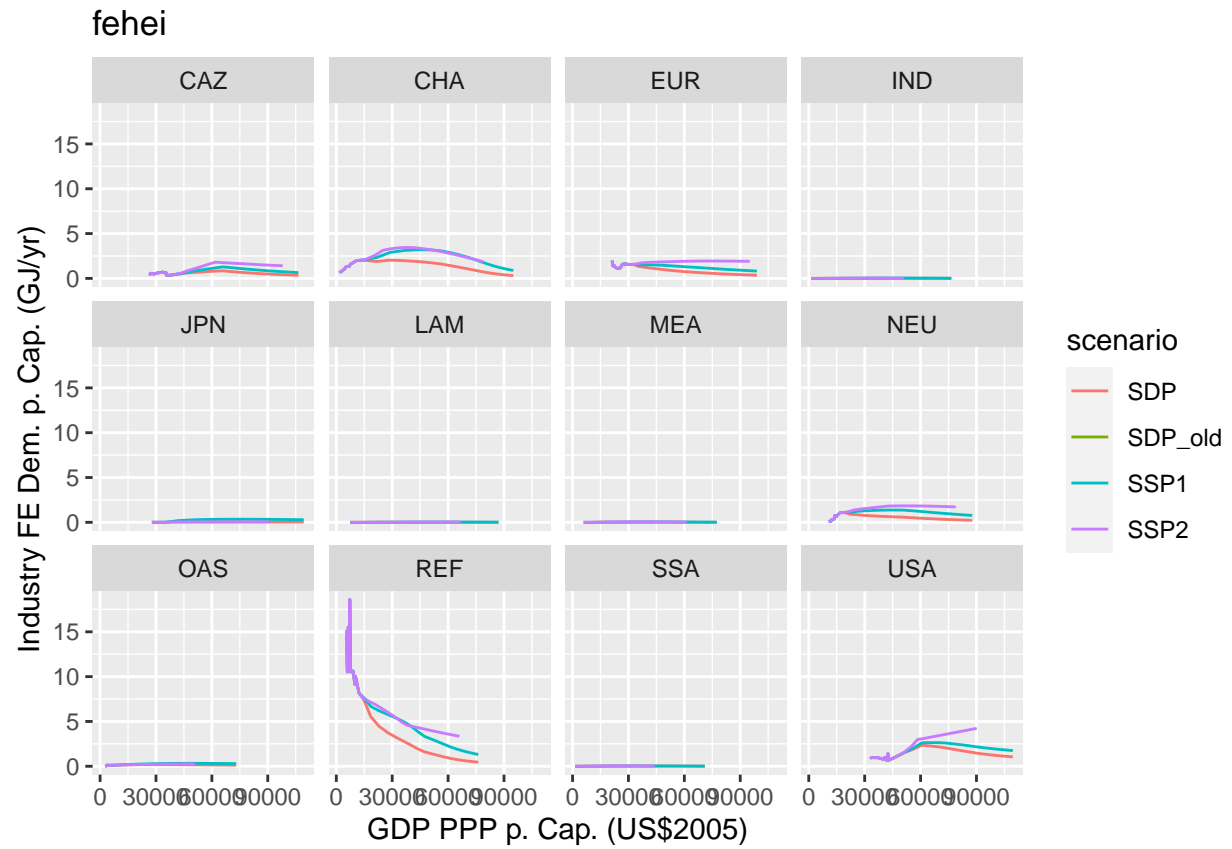
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##
## $fehei
## Warning: Removed 432 row(s) containing missing values (geom_path).
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