

npl oil price shock 2 models

March 5, 2024

```
[10]: from modelclass import model
```

1 Load the 2 models

```
[11]: mnpl_mf, bline_mf = model.modelload('data/npl_mf',
    ↳ run=True, keep='Baseline-mf', silent=1)
mnpl_em_dm, bline_em_dm = model.modelload('data/
    ↳ npl_em_dm', run=True, keep='Baseline_em_dm', silent=1)
```

Zippped file read: C:\modelflow manual raw models\npl\data\NPL_MF.pcim

Zippped file read: C:\modelflow manual raw models\npl\data\NPL_EM_DM.pcim

```
[12]: mnpl_mf.model_description
```

```
[12]: 'Nepal macro financial MF model'
```

```
[13]: mnpl_em_dm.model_description
```

```
[13]: 'Nepal climate EM_DM model)
```

2 Shock the oilprice and run the model

```
[14]: oilshock = 20
_ = mnpl_mf(bline_mf.upd(f'<2024> WLDFCRUDE_PETRO + {oilshock}'), keep=f'MF_
    ↳ Oilshock = {oilshock}')
_ = mnpl_em_dm(bline_em_dm.upd(f'<2024> WLDFCRUDE_PETRO +_
    ↳ {oilshock}'), keep=f'EM_DM Oilshock = {oilshock}')
```

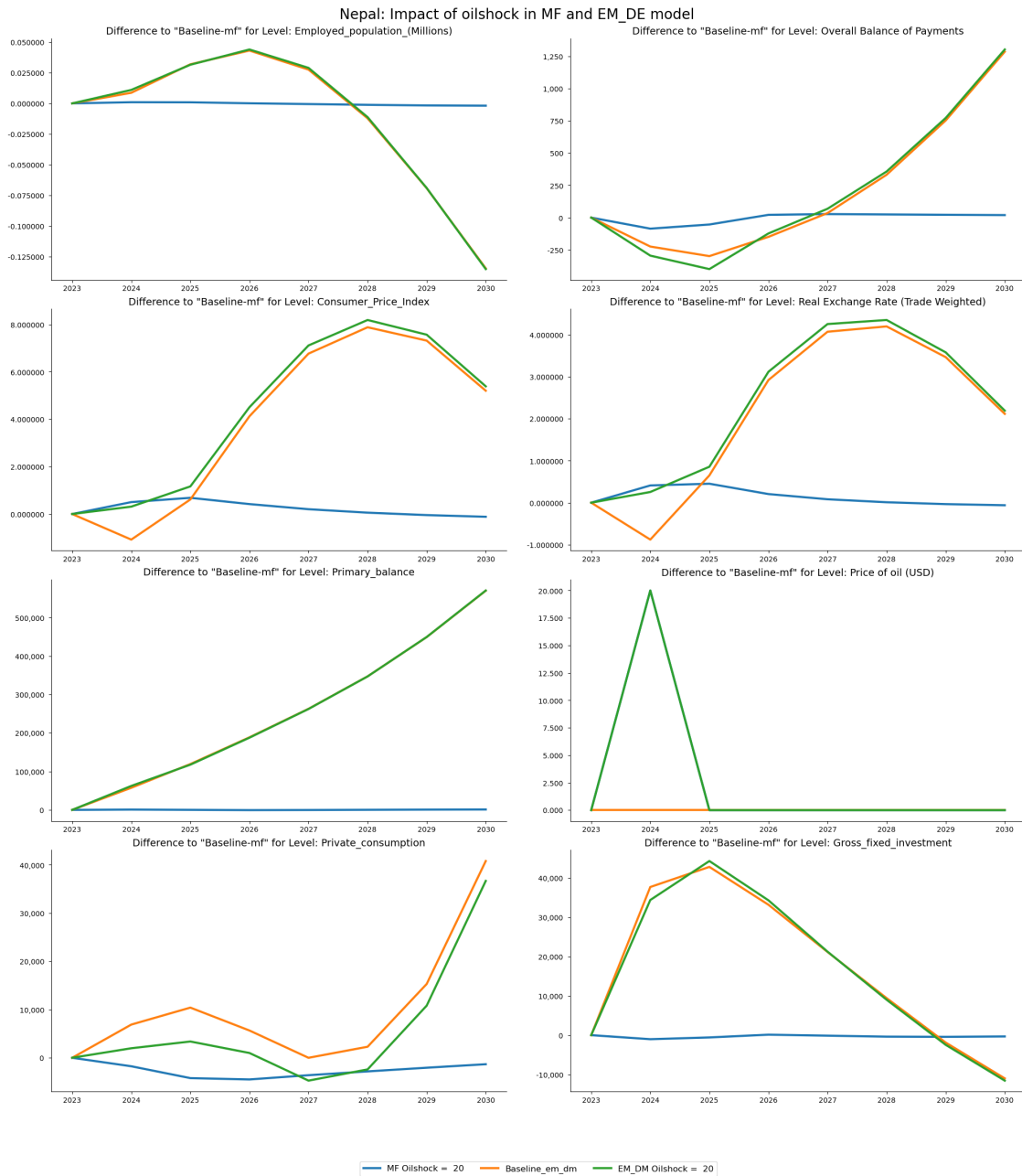
3 Merge the keep solutions from the 2 models

```
[19]: mnpl_mf.keep_solutions = mnpl_mf.keep_solutions | mnpl_em_dm.keep_solutions
```

4 Define variables and plot

```
[20]: lookout = mnpl_mf['#Headline'].names + ['*REER *GGBALPRIMCN *CCEMISCO2TKN_
↳WLDFCRUDE_PETRO *NECONPRVTKN *NEGDIPTOTKN']
```

```
[21]: figs = mnpl_mf.keep_plot(lookout,diff=True,samefig=1,title=f'Nepal: Impact of oilshock in MF and EM_DE model',
↳oilshock in MF and EM_DE model',legend=1);
```



5 save the chart

```
[18]: mnpl_mf.savefigs(figs,extensions= ['pdf','svg'],xopen=False,experimentname =_↵  
      ↪'two models',addname='_oil_dif')
```

```
[18]: 'Saved at: c:\\modelflow manual raw models\\npl\\graph\\two models'
```

```
[ ]:
```