

# combinatorial and parametric scenarios in VEDA FE

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# Dense scenario experiments

- More points of reference
- Possibility to turn the model into an expert system

Case	<u>Ren_PS</u>	<u>Tax_CO2</u>	<u>Nuc</u>	<u>CCS</u>	<u>ShaleGas</u>
1	25%	-	No	Yes	Ref
2	35%	-	No	Yes	Ref
3	45%	-	No	Yes	Ref
4	-	\$50	No	Yes	Ref
5	-	\$75	No	Yes	Ref
6	-	\$100	No	Yes	Ref
7	25%	-	Yes	Yes	Ref
8	35%	-	Yes	Yes	Ref
9	45%	-	Yes	Yes	Ref
10	-	\$50	Yes	Yes	Ref
11	-	\$75	Yes	Yes	Ref
12	-	\$100	Yes	Yes	Ref
13	25%	-	No	No	Ref
14	35%	-	No	No	Ref
15	45%	-	No	No	Ref
16	-	\$50	No	No	Ref
17	-	\$75	No	No	Ref
18	-	\$100	No	No	Ref

[INDIA TIMES model](#)

<http://vedaviz.com/Portal/Playground.aspx?p=IMRT23Dec14&g=a24c44>

[MAC curve for Romania](#)

<http://vedaviz.com/romania/index.html>

# Individual dimensions are easy to handle

## Scen\_RPS

~UC_T: UC_RHSRT~LO						
UC_N	PSET_SET	CSET_CN	UC_FLO	UC_COMPRD	2020	0
UC-RPS	ELEREN	ELC	1	-0.25	0	5

## Scen\_CO2Tax

~TFM_INS			
Attribute	Year	AllRegions	CSET_CN
COM_TAXNET	2020	50	TOTCO2
COM_TAXNET	0	5	TOTCO2

## Scen\_NoNUC

~TFM_INS				
Attribute	LimType	Year	AllRegions	PSET_SET
NCAP_BND	UP	0	2	ELENUC

## Scen\_NoCCS

~TFM_INS				
Attribute	LimType	Year	AllRegions	PSET_SET
NCAP_BND	UP	0	2	ALLCCS

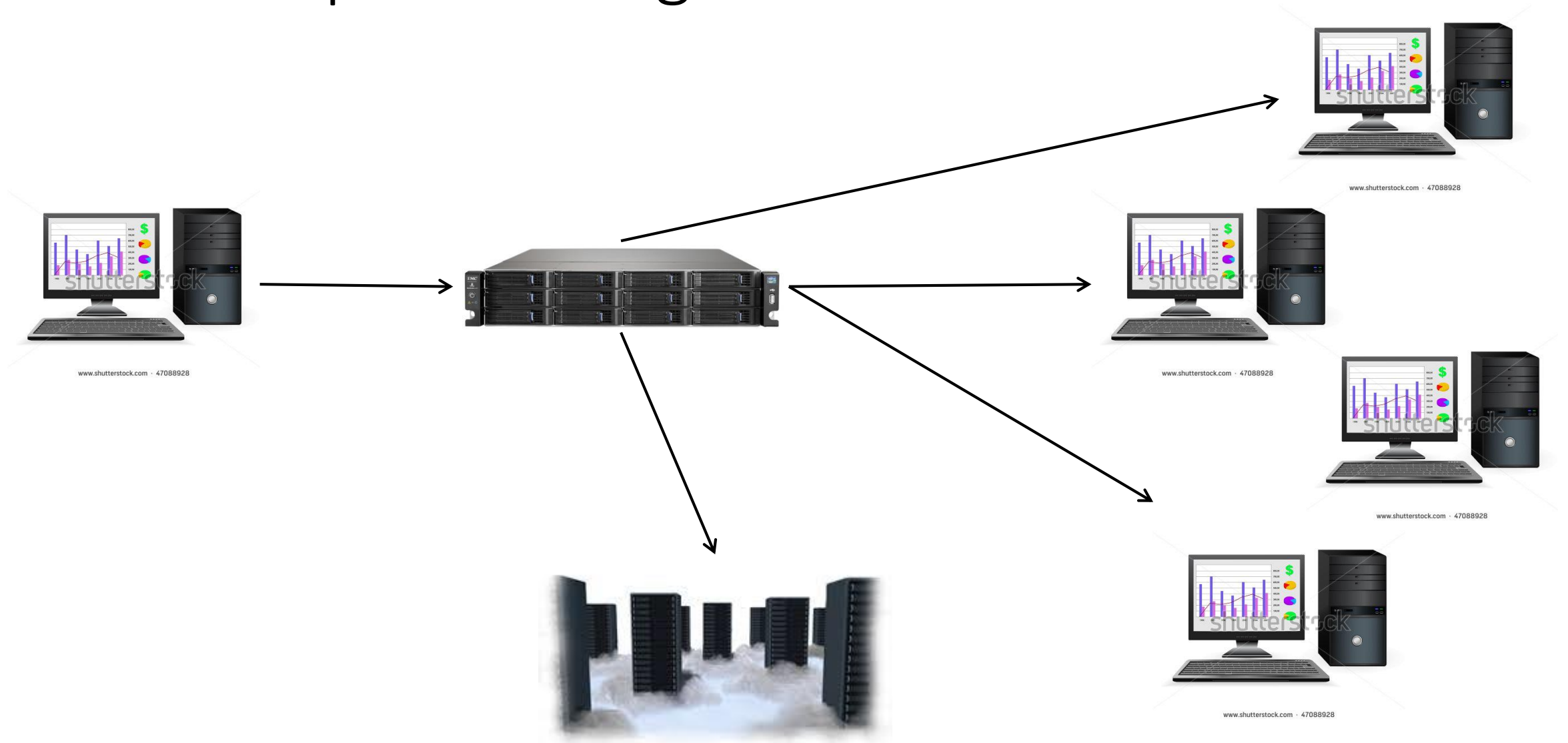
## Scen\_HiShale

~TFM_UPD				
Attribute	LimType	Year	AllRegions	PSET_PN
COST		2050	*.75	MINGASSHA*
ACT_BND	UP	2050	*2	MINGASSHA*

# New functionality to combine such dimensions – Scenario clusters

- All tables would go into a single file
- One SYNC operation will create the entire cluster
- Case manager will run the cluster as a single case
- Cluster members will be available in browse
- Create DD only will create DD files and scripts in separate wrk folders

# Next Steps: Running all these cases



Next Steps: Analyzing all these cases



**LMA**