**Generation & Capacity**

**GEN\_Total\_GWh** = SUM('Generation\_Table'[Generation\_GWh])

**GEN\_RE\_GWh** = CALCULATE([GEN\_Total\_GWh], KEEPFILTERS(\_Dim\_Source[Is\_Renewable]= TRUE))

**CAP\_Total\_MW** = SUM(Capacity\_Table[Capacity\_MW])

**CAP\_RE\_MW** = CALCULATE([CAP\_Total\_MW], KEEPFILTERS(\_Dim\_Source[Is\_Renewable] = TRUE))

**Shares (Energy Mix)**

**GEN\_RE\_Share\_%** = DIVIDE([GEN\_RE\_GWh],CALCULATE([GEN\_Total\_GWh],REMOVEFILTERS(\_Dim\_Source[Source])))\*100

**Gen\_Source\_Share\_%** = DIVIDE([Gen\_BySource\_GWh],CALCULATE([Gen\_BySource\_GWh], REMOVEFILTERS(\_Dim\_Source[Source])))\*100

**Gen\_RE\_Source\_Share\_%** = DIVIDE([GEN\_RE\_GWh], CALCULATE([GEN\_RE\_GWh], REMOVEFILTERS(\_Dim\_Source[Source])))\*100

**CAP\_RE\_Share\_%** = DIVIDE([CAP\_RE\_MW], CALCULATE([CAP\_Total\_MW], REMOVEFILTERS(\_Dim\_Source[Source])))\*100

**Cap\_Source\_Share\_%** = DIVIDE([Cap\_BySource\_MW], CALCULATE([Cap\_BySource\_MW], REMOVEFILTERS(\_Dim\_Source[Source])))\*100

**CAP\_RE\_Source\_Share\_%** = DIVIDE([CAP\_RE\_MW], CALCULATE([CAP\_RE\_MW], REMOVEFILTERS(\_Dim\_Source[Source])))\*100

**Gen\_%\_by\_source**\_ =

VAR \_Year =

COALESCE(SELECTEDVALUE(\_Dim\_Year[Year]), 2025)

RETURN

DIVIDE(

CALCULATE(

SUM(Generation\_Table[Generation\_GWh]),

\_Dim\_Year[Year] = \_Year

),

CALCULATE(

SUM(Generation\_Table[Generation\_GWh]),

\_Dim\_Year[Year] = \_Year,

ALL(\_Dim\_Source)

),

0

)

**Cap\_%\_by\_Source**\_ =

VAR \_Year =

COALESCE(SELECTEDVALUE(\_Dim\_Year[Year]), 2025)

RETURN

DIVIDE(

CALCULATE(

SUM(Capacity\_Table[Capacity\_MW]),

\_Dim\_Year[Year] = \_Year

),

CALCULATE(

SUM(Capacity\_Table[Capacity\_MW]),

\_Dim\_Year[Year] = \_Year,

ALL(\_Dim\_Source)

),

0

)

**Emission**

**EM\_Total\_MtCO2** =

DIVIDE(

SUMX(

Generation\_Table,

Generation\_Table[Generation\_GWh]\*

RELATED(\_Dim\_Source[Emission\_Factor\_tCO2\_perMWh])

),

1000

)

**EM\_Intensity\_Total\_gCO2\_per\_kWh** = DIVIDE([EM\_Total\_MtCO2]\*1e9, [GEN\_Total\_GWh]\*1e6, 0)

**EM\_Avoided\_MtCO2** =

VAR FossilEF =

CALCULATE(

DIVIDE(

SUMX(

FILTER(ALL(generation\_table), RELATED(\_Dim\_Source[Source\_Group]) = "Fossil"),

generation\_table[Generation\_GWh] \* RELATED(\_Dim\_Source[Emission\_Factor\_tCO2\_perMWh])

),

SUMX(

FILTER(ALL(generation\_table), RELATED(\_Dim\_Source[Source\_Group]) = "Fossil"),

generation\_table[Generation\_GWh]

)

),

ALL(\_Dim\_Source) // ignores RE Source filters

)

RETURN

DIVIDE(

SUMX(

FILTER(generation\_table, RELATED(\_Dim\_Source[Is\_Renewable]) = TRUE),

generation\_table[Generation\_GWh]

) \* FossilEF,

1000

)

**EM\_AVG\_Fossil\_tC02\_perMWh** =

DIVIDE (

SUMX (

FILTER (\_Dim\_Source, \_Dim\_Source[Source\_Group] = "Fossil"),

[Gen\_BySource\_GWh]

\* \_Dim\_Source[Emission\_Factor\_tCO2\_perMWh]

),

SUMX (

FILTER ( \_Dim\_Source, \_Dim\_Source[Source\_Group] = "Fossil"),

[Gen\_BySource\_GWh]

)

)

**Efficiency and Utilization**

**CAP\_Growth\_YoY**\_% =

VAR CY = MAX(\_Dim\_Year[Year])

VAR Prev = CALCULATE([CAP\_Total\_MW], FILTER(ALL (\_Dim\_Year), \_Dim\_Year[Year]= CY-1))

RETURN IF(Prev=0, BLANK(), DIVIDE([CAP\_Total\_MW]-Prev,Prev, 0))

CF\_RE\_% =

divide(

[GEN\_RE\_GWh]\*1000,

[CAP\_RE\_MW]\*8760,

0

)\*100

CF\_Total\_% =

divide(

[GEN\_Total\_GWh]\*1000,

[CAP\_Total\_MW]\*8760,

0

)\*100

**GEN\_Growth\_YoY**\_% =

VAR CY = MAX(\_Dim\_Year[Year])

VAR Prev = CALCULATE([GEN\_Total\_GWh], FILTER(ALL (\_Dim\_Year), \_Dim\_Year[Year]= CY-1))

RETURN IF(Prev=0, BLANK(), DIVIDE([GEN\_Total\_GWh]-Prev,Prev, 0))

**CAP\_Growth\_2020\_2025\_%** =

VAR CAP2020 =

CALCULATE(

SUM(Capacity\_Table[Capacity\_MW]),

\_Dim\_Year[Year]=2020,

\_Dim\_State[State]= "All India"

)

VAR CAP2025 =

CALCULATE(

SUM(Capacity\_Table[Capacity\_MW]), \_Dim\_Year[Year]=2025, \_Dim\_State[State]= "All India"

)

RETURN

DIVIDE(CAP2025-CAP2020, CAP2020, 0)\*100

**GEN\_Growth\_2020\_2025\_%** =

VAR GEN2020 =

CALCULATE(

SUM(Generation\_Table[Generation\_GWh]),

\_Dim\_Year[Year]=2020,

\_Dim\_State[State]= "All India"

)

VAR GEN2025 =

CALCULATE(

SUM(Generation\_Table[Generation\_GWh]), \_Dim\_Year[Year]=2025, \_Dim\_State[State]= "All India"

)

RETURN

DIVIDE(GEN2025-GEN2020, GEN2020, 0)\*100