**SEPTEMBER 2023**

**POWER FROM THE WIND AT SUNRISE AND SUNSET**

*These are provisional figures which need to be checked for typos and other errors*

SEPT 1

NEM Wind at 7.20am providing 3% of demand at Capacity Factor 11%. (CF is the % of installed capacity. 29% is the average.)

SA the wind leading state, wind generatIng 4% of demand operating with CF 4.

Victoria, wind providing 3% of demand with CF 4.

NSW , wind providing 4% of demand with CF 18%.

Qld, wind providing 3% of demand at CF 22

Tas, providing 1% of demand at CF 2.

SAT SEPT 2

NEM Wind at 7am, 7% of demand at capacity factor 13% (% of installed capacity. 29% is the average.)

SA the wind leader, 44% of demand at CF20, importing coal power from Victoria and burning diesel.

Victoria, 2% of demand with CF 3.3%. Brown coal 80% of demand.

NSW, 6% of demand with CF16. Black coal 86% of demand. Solar 5%.

Qld, 6% of demand with CF40%. Black coal 73%. Solar 8%.

Tasmania, 3% of demand with CF 8%.

SUNDAY 3

NEM Wind at 7am, 21% of demand at capacity factor 38% (% of installed capacity. 29% is the average.)

SA the wind leader, 95% of demand at CF55%.

Victoria, 30% of demand with CF 40%. Brown coal providing 68% of demand.

NSW, 8% of demand with CF15. Black coal 86% of demand. Solar 4%. Importing from Qld and Vic.

Qld, 9% of demand with CF50%. Black coal 77%. Solar 7%.

Tasmania, the battery of the nation, 10% of demand with CF20% . Importing power from Victoria.

This is a fairly good wind day (CF 38 compared with the average of 29) and the demand is at the lowest point for the week, so it looks good for wind, but remember it is the low points that kill the system like the low point of the levee and the gap in the fence.

MONDAY 4

A particularly good wind day with the wind running at 60% capacity factor delivering 27% of demand for power approaching 7:00 AM this is the kind of day that they wind lovers like to announce to the world to show how well things are going but always remember it is the low points pet kill the green dream.

Remember, the average capacity factor is 29%.

SA the wind leader, 86% of demand at CF46, importing coal power from Victoria and burning diesel.

Victoria, 50% of demand with CF 80%. Brown coal 49% of demand.

NSW, 12% of demand with CF36. Black coal 80% of demand. Solar 4%.

Qld,8 % of demand with CF50%. Black coal 81%. Solar 5%.

Tasmania, 26% of demand with CF60 .

**The wind dropped back to normal by the evening,**  at 6.20 pm wind over the NEM was 10% at CF27.

**SA was importing power from Victoria and burning diesel,** with wind providing 24% of demand at 14%F.

TUESDAY 5

**NEM Wind at 6.40am, 26% of demand at capacity factor 56%, almost twice the average 29%.**

SA the wind leader, 68% of generation at CF45%, 76% of demand

Victoria,39 % of demand with CF 65%. Brown coal 58% of demand.

NSW, 21% of demand with CF60%. Black coal 74% of demand. Solar 3%.

Qld, 19% of demand with CF55%. Black coal80 %. Solar 4%.

Tasmania, 15% of demand with CF30% (average.) Importing power to save the water level in the dams

WED 6

NEM Wind at 6.40am, 22% of demand at capacity factor 50%

SA the wind leader, 85% of generation at CF50, 80% of demand, importing coal power.

Victoria, 39% of demand with CF66 %. Brown coal 69% of demand.

NSW, 7% of demand with CF24. Black coal 80% of demand. Solar 3%.

Qld, 4% of demand with CF32%. Black coal 84%. Solar 3%.

Tasmania, 22% of demand with CF60 .

Evening NEM 18@45, SA 84@53, 80% of demand

THURSDAY 7

NEM 6.44 Wind at 24% of demand at capacity factor 56%.

SA the wind leader, 90% of demand at CF50, importing coal power from Victoria.

Victoria, 47% of demand with CF75 %. Brown coal 52% of demand.

NSW, 9% of demand with CF26%. . Black coal 81% of demand. Solar4 %.

Qld,7 % of demand with CF 40%. Black coal 80%. Solar 6%.

Tasmania, 30% of demand with CF 70.

FRIDAY 8

NEM Wind at 6.45am, 30% OF demand at capacity factor 64% of installed capacity. 29% is the average.)

SA the wind leader, 96% of demand, 93% of gen at CF66%, NOT importing coal power from Victoria.

Victoria, 46% of generation with CF76 %. Brown coal 52% of generation.

NSW, 22% gen with CF70%. Black coal 73% of generation. Solar1 %.

Qld 5 % of gen with CF22 Black coal83 % of generation. Solar 5%.

Tasmania, 21% of gen with CF50%.

SATURDAY 9

6.40AM NEM Wind 20% of demand (and generation) at capacity factor40 % ( 29% is the average.)

SA the wind leader, 26% of generation, 16%% of demand at CF9%, importing coal power from Victoria.

Victoria, 29%% of generation with CF 40%. Brown coal 68% of generation.

NSW, 16% of generation with CF4. Black coal 78% of generation. Solar 5%.

Qld, 12% of generation with CF75%. Black coal 80%. Solar 4%.

Tasmania, 32% of generation with CF 90.

SUNDAY 10

7 AM NEM Wind 12% of demand (and generation) at capacity factor 22% ( 29% is the average.)

SA the wind leader, 56% of generation, 40% of demand at CF23%, importing coal power from Victoria.

Victoria, 12% of generation with CF 15%. Brown coal 83% of generation.

NSW, 8% of generation with CF22%. Black coal 83% of generation. Solar 7%.

Qld, % 8of generation with CF48%. Black coal 80%. Solar7 %.

Tasmania, 14% of generation with CF40%.

MONDAY 11

6 AM NEM Wind 10% of demand (and generation) at capacity factor 20% ( 29% is the average.)

SA the wind leader, 65% of generation, 60% of demand at CF30%, importing coal power from Victoria.

Victoria, 1% of generation with CF1 %. Brown coal 83% of generation.

NSW, 8% of generation with CF23%. Black coal 91% of generation. Solar 5%.

Qld, 11% of generation with CF70%. Black coal 74%. Solar 4%.

Tasmania, 4% of generation with CF12%.

TUESDAY 12

6.50AM NEM Wind 13% of demand (and generation) at capacity factor29 % ( 29% is the average.)

SA the wind leader, 54% of generation, 26% of demand at CF26%, importing coal power from Victoria.

Victoria, 22% of generation with CF 33%. Brown coal 64% of generation.

NSW, 4% of generation with CF11%. Black coal 90 % of generation. Solar 4%.

Qld, 8% of generation with CF62%. Black coal 78%. Solar 9%.

Tasmania, 9% of generation with CF28%.

WED 13

6.30AM NEM Wind 8% of demand (and generation) at capacity factor 17% ( 29% is the average.)

SA the wind leader,34% of generation, 27of demand at CF14%, importing coal power from Victoria.

Victoria, 15% of generation with CF 20%. Brown coal 78% of generation.

NSW, 1% of generation with CF4%. Black coal 80% of generation. Solar 3%.

Qld, 6% of generation with CF50%. Black coal 81%. Solar 4

Monday 1% sunrise 1%.

Tasmania, % of generation with CF%.

12 noon VRE 63% R 65%

WA 37 37

After sunset 7.30 NEM 6@14 SA 48@33 40% of demand IMPORTING Vic 2@2.6 gen,

THURSDAY 14

6.20AM NEM Wind 21% of demand (and generation) at capacity factor 45 ( 29% is the average.)

SA the wind leader, 96% of generation, 126% of demand at CF70%, exporting.

Victoria.

Victoria, 40% of generation with CF 52%. Brown coal 58% of generation.

NSW, 4% of generation with CF10%. Black coal 85% of generation. Solar 1%.

Qld, 6%of generation with CF44%. Black coal 84%. Solar 2%.

Tasmania, 7% of generation with CF15%. Importing.

FRIDAY 15

6.30AM NEM Wind 14% of demand (and generation) at capacity factor27 % ( 29% is the average.)

SA the wind leader, 19% of generation, 10% of demand at CF6%, importing coal power from Victoria.

Victoria, 28% of generation with CF 30%. Brown coal 70% of generation.

NSW, 8 of generation with CF22%. Black coal 83 of generation. Solar 2%.

Qld, 7%of generation with CF55%. Black coal 80% Solar 6%.

Tasmania, 27 of generation with CF80%.

SATURDAY 16

6.20AM NEM Wind 23% of demand (and generation) at capacity factor 40% ( 29% is the average.)

SA the wind leader, 49% of generation, 33% of demand at CF16%, importing coal power from Victoria.

Victoria, 38% of generation with CF 44%. Brown coal 60% of generation.

NSW, 17% of generation with CF35%. Black coal 80% of generation. Solar 2%.

Qld, 8% of generation with CF50%. Black coal 79%Solar 3%.

Tasmania, 34% of generation with CF94%.

SUNDAY 17

6.30AM NEM Wind 15% of demand (and generation) at capacity factor 25% ( 29% is the average.)

SA the wind leader, 33% of generation, 20% of demand at CF 8%, importing coal power from Victoria.

Victoria, 20% of generation with CF 25%. Brown coal 75% of generation.

NSW, 10% of generation with CF22%. Black coal 79% of generation. Solar 6%.

Qld, 8% of generation with CF 46%. Black coal 76% Solar 7%.

Tasmania, 32% of generation with CF 90%.