

Trend Analysis

Week of the month vs Avg Actual Energy

Week_Number	AVERAGE of Cleaned_Actual_Energy				
1	16.65				
2	16.82				
3	16.86				
4	16.79				
5	16.73				

District-wise abnormal usage by week

SUM of Abnormal_Usage	Week_Number				
District	1	2	3	4	5
Alappuzha	296	310	331	315	90
Ernakulam	478	444	439	446	123
Thiruvananthapuram	331	341	338	360	97

Comparison Analysis

District-wise Average Energy Consumption

District	AVERAGE of Cleaned_Expected_Ene	AVERAGE of Cleaned_Actual			
Alappuzha	16.11	16.99			
Ernakulam	15.53	16.47			
Thiruvananthapuram	16.03	16.96			

Dwelling Type vs Actual Energy vs Usage Deviation

Dwelling_Type	AVERAGE of Usage_Deviation(%)				
Apartment	5.55%				

Independent House	5.99%				
Villa	5.75%				
Temperature category VS Usage_Deviation					
<i>Temperature_category</i>	AVERAGE of Usage_Deviation(%)				
<25	5.36%				
>30	6.37%				
25-30	5.12%				
Distribution Analysis					
Applied Score VS Energy Load Distribution					
<i>COUNTA of Meter_Id(prefix re Load_category(labeled)</i>					
<i>Appliance_Score_Grouped</i>	1	2	3		
High	270	1410	2370		
Low	360	1080	2010		
Medium	150	1380	1770		
Occupants vs Actual Energy Consumption					
<i>Num_Occupants</i>	AVERAGE of Cleaned_Actual_Energy	AVERAGE of Connected_Load			
1	13.75	5.45			
2	14.91	5.07			
3	15.96	5.46			
4	17.93	5.47			
5	18.48	5.21			
6	19.40	5.20			

Correlation analysis					
Load Category VS actual energy					
Load_category(labeled)	AVERAGE of Cleaned_Actual_Energy				
1	14.74				
2	15.73				
3	17.69				
KPIS					
Total Unique Meters					
360					
Total Abnormal Activities					
4739					
Average Energy					
16.78					
District with max abnormal usage			Helper Pivot Table		

Ernakulam		District	SUM of Abnormal	
		Alappuzha	1342	
		Ernakulam	1930	
Abnormal activity count for Ernakulam		Thiruvananthapuram	1467	
1930				
Slicers				
☰ Temperature_category All				
☰ Week_Number All				
☰ District All				
☰ Dwelling_Type All				
☰ Num_Occupants All				
☰ District-wise abnormal usage t				