

10 Ways to get the most out of the Cognition World Portal



Question	Explanation	Tip
What is the residual overnight consumption?	<i>Understanding how much energy is being consumed when the site is non-operational provides insights into where machines may be used unnecessarily. This figure also shows the minimum amount of energy needed to keep the site idle.</i>	<i>Tip: Check the baseline of the elec mains consumption graph over the course of a week highlighting the baseline of each night (Usually a flat line).</i>
Why is mains consumption up/down on last week?	<i>If you've had a busy period, you should expect to see more consumption, but if you haven't, then you will need to investigate what's causing those spikes (e.g. human error or inefficient processes)</i>	<i>Tip: Check for a random spike in elec mains consumption on the graph</i>
Is my day / night consumption split maximised to take advantage of night tariff?	<i>Are you able to apportion some of your high consuming machines/activities to a time of night tariff when the cost is significantly lower.</i>	<i>Tip: Check the Pie Chart on the home page showing the day night split with the % amount highlighted as the mouse is hovered over the chart</i>
What happened on my site at the time of my 'peak load' this month?	<i>If your machines & processes are running at the same time, you can better sequence their running to smooth out the level of consumption.</i>	<i>Tip: Check the Peak Load metric on the elec mains consumption card</i>
Are the '% above' alerts in the ALERT CENTRE revealing anything interesting?	<i>The 'Alert Centre' generates alerts when consumption is at least 25% up on the same time and day of the previous week. If you notice that your sub-meter is revealing strange spikes, this could be a maintenance issue or the machines are being run on the wrong settings.</i>	<i>Tip: Check the increase metric on the Alerts Page.</i>
Does the outdoor temperature have any effect on my consumption?	<i>Look at the weather data on the top of the portal and track whether this has any impact on the level of consumption.</i>	<i>Tip: The Interrogation Centre has the option of showing and comparing Degree Days against other metrics. Try overlaying mains elec consumption over a week.</i>
Will placing a clamp on a new machine/set of machines every month generate new and meaningful insights?	<i>We recommend capturing data for as long as possible - at least a month - to isolate any inconsistencies in consumption during one particular week. If the data is shows lots of variation every week then we suggest not moving it. Do note down the date when you move a device in order to compare different data-sets from the same device.</i>	<i>Tip: Check to see if the cost of a fridge or an oven is in line with your expectations.</i>
Is there a site near me in order to benchmark performance against?	<i>If one site consumes more kWh over another - it's time to understand why!</i>	<i>Tip: If you have multiple sites, ask to see a multi-site layout site on the portal to compare the kWh per m² against each other.</i>
Can my team explain the top 3 peaks in my daily consumption graph?	<i>Every day kit comes on and off, but just because we think it is off, doesn't mean it is. Also, some machines may draw load at times we may not expect.</i>	<i>Tip: Review elec mains consumption graph of one whole day and try to explain the 3-4 main peaks in the day</i>

Want to add additional monitors to your site to understand more about your site? There are a wide a range of sensors to help you better understand cause and effect in your site (e.g. Temperature, Occupancy, CO2, Fridge door sensors etc.). Ask at support@cognition.world